Trenton State College is an affirmative-action, equal-opportunity institution. As such, it is dedicated to equality of opportunity for all persons in all of its operations.

The college has in effect an Affirmative Action Program and a Title IX Policy which define its commitment to nondiscrimination and equal opportunity in employment, admissions and all other aspects of the college function. Inquiries regarding compliance with Title IX or affirmative action statutes may be directed to the Affirmative Action Officer and Title IX Coordinator, Office of the President.

Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973 may be directed to the Director, Office of Special Services.

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Registering for summer classes is easier than you think!

1. Check admission and registration requirements and procedures:
   - Graduate (p. 33)
   - Undergraduate (p. 4)

2. Choose your classes (course descriptions begin on p. 9).

We offer a flexible schedule of summer sessions to meet your varying needs:
- Pre-session: June 12-June 23
- Five-Week Session: June 26-July 27
- Six-Week Session: June 26-August 3

PLEASE NOTE: TRENTON STATE COLLEGE WILL BE CLOSED ON THE FOLLOWING FRIDAYS:
- July 14, 1989
- July 21, 1989
- July 28, 1989
- August 4, 1989
- August 11, 1989

Classes scheduled to meet Tuesday, July 4 will meet Friday, July 7.
UNDERGRADUATE

• ADMISSION

• REGISTRATION PROCEDURES

• COURSE OFFERINGS
UNDERGRADUATE ADMISSION

ELIGIBILITY

Undergraduate enrollment in the summer session is open to:
1. college graduates;
2. students who are attending Trenton State College or other colleges and universities in good academic standing*;
3. high school students who will be seniors in September 1989;
4. high school graduates; and
5. holders of high school equivalency certificates.

*Anyone who has been dismissed or suspended from another collegiate institution within one calendar year of the beginning of summer session is ineligible to enroll in summer session.

PROCEDURES

VISITING STUDENTS FOR SUMMER 1989 FROM OTHER INSTITUTIONS*

1. Complete the application for Summer 1989 Undergraduate Courses (form C) and a non-refundable check or money order for $25 payable to Trenton State College.

2. With the application and fee:
   a. Students matriculated at another college must submit an official transcript or a letter verifying good standing and granting permission to enroll at Trenton State College.
   b. Students enrolling from high school must submit an official transcript and letter verifying good standing and granting permission to enroll at Trenton State College.

STUDENTS INTENDING TO CONTINUE ENROLLMENT AT TRENTON STATE COLLEGE

Applicants must meet regular admission criteria. Deadline for September matriculation is March 1, 1989. Non-matriculating students must submit all required credentials at least two weeks prior to registration for summer courses.

For further information about admission, call one of the toll-free numbers below:

1-800-624-0967 in New Jersey
1-800-345-7354 in Pennsylvania, Delaware, New York, and Connecticut

*If you have applied to the college for fall admissions as a matriculated or a non-matriculated student, you may not apply for summer visiting student status without permission from the Admissions Office. If a previous application to Trenton State College was rejected, you may not register during the summer without special permission from the Admissions Office.
UNDERGRADUATE REGISTRATION PROCEDURES

Registration for courses may be accomplished by mail (mail registration is recommended to ensure your place in class) or in person. Payment for all tuition and fees is required at the time of registration.

MAIL-IN REGISTRATION

TO REGISTER BY MAIL between April 10 and May 5:

1. Complete forms A and B.
2. Follow admission procedures (p. 4) if not previously enrolled at Trenton State College, or if you are a visiting student. All admissions documentation must be on file at TSC at least two weeks before your class begins but no later than June 2, 1989.
3. Enclose forms with check or money order for tuition and fees and application fee if applicable (made payable to Trenton State College) and mail, in the enclosed self-addressed envelope, to:

   Division of Graduate and Continuing Studies
   Trenton State College
   Hillwood Lakes
   CN 4700
   Trenton, NJ 08650-4700

Note: Co-op approval memorandums and summer independent course-work contracts must accompany registration forms.

Allow us two weeks to process your materials. We will then send your registration confirmation. Check all of your registration materials carefully; if they are incorrect we will return them to you. We cannot hold your place in class until all of the appropriate procedures have been completed.

IN-PERSON REGISTRATION

TO REGISTER IN PERSON between May 15 and June 2:

1. Complete forms A and B.
2. If you were not previously enrolled at Trenton State College or you are a visiting student, complete forms A, B, and C. See page 4 for admission procedures. All admissions documentation must be on file at TSC at least two weeks before your class begins but no later than June 2, 1989.
3. Bring your completed forms and your check or money order (payable to Trenton State College) to:

   Division of Graduate and Continuing Studies
   Green Hall, Room 109

   between the hours of 1:00 and 3:30 p.m., Mondays through Wednesdays and between 5:00 and 7:30 p.m., Thursdays. (After hours you may drop your registration materials in the office mail slot.)

Note: Co-op approval memorandums and summer independent course-work must accompany registration forms.
REGISTRATION DEADLINES

READ CAREFULLY THE REGISTRATION DEADLINES BELOW:

No registration can be accepted after the deadlines stated. These deadlines have been adjusted to make certain that all materials will be processed on time.

MAIL REGISTRATION
April 10-May 5

IN-PERSON REGISTRATION
May 15-June 2
1:00-3:30 p.m. Monday through Wednesday
5:00-7:30 p.m. Thursday
(No registration on Monday, May 29)

LATE REGISTRATION ($15 late registration fee)
June 8
3:30-7:30 p.m. Thursday
June 15
3:30-7:30 p.m. Thursday
(No new admits accepted during late registration)

Please note: Cash cannot be accepted at evening registrations.

FINAL REGISTRATION FOR INDEPENDENT STUDY AND CO-OP IS JUNE 2.

WITHDRAWAL AND REFUND SCHEDULE

This refund policy applies to undergraduate and graduate withdrawal from any course or courses.

In order to withdraw from a summer course a student must fill out an official withdrawal form obtained from the Office of Records and Registration or the Division of Graduate and Continuing Studies. After a student has officially withdrawn, the instructor must assign a grade of "WP" or "WF" as appropriate. If no official withdrawal is received, the student's grade will be an automatic "F."

<table>
<thead>
<tr>
<th>For classes meeting</th>
<th>100%</th>
<th>50%</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 12-June 23</td>
<td>June 9</td>
<td>June 15</td>
<td>June 16</td>
</tr>
<tr>
<td>June 26-July 27</td>
<td>June 23</td>
<td>July 6</td>
<td>July 11</td>
</tr>
<tr>
<td>June 26-August 3</td>
<td>June 23</td>
<td>July 7</td>
<td>July 13</td>
</tr>
</tbody>
</table>

For all classes without specific dates
June 23 | July 7 | July 13

Please note: All summer refunds will be processed in September.

INTERNATIONAL STUDENTS

Only international students previously admitted to Trenton State College may enroll in the summer session.

A form 1-20 must be issued before a student may attend classes. Please contact the Admissions Office for further information at (609) 771-2131.
<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>In-State Tuition</th>
<th>Out-of-State Tuition</th>
<th>I.D. Fee</th>
<th>General Center Service Fee</th>
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<td>16.50</td>
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<tr>
<td>12 or more</td>
<td>$800.00</td>
<td>$1200.00</td>
<td>1.00</td>
<td>24.00</td>
<td>144.00</td>
<td>969.00</td>
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</table>

**NOTES:**

Tuition and fees are subject to change by action of the Trenton State College Board of Trustees.

A student shall be classified as a "New Jersey Resident" for tuition purposes upon admission to a public institution of higher education in the State of New Jersey if the student or the parent(s) or guardian(s) upon whom the student is financially dependent has been a bona fide domiciliary of the State of New Jersey for at least one year immediately prior thereto.

All tuition and fees are due at the time of registration (no deferred payments).

For 1 to 11 credits:

A. Matriculated students will pay tuition and fees at the level of their matriculation: e.g., matriculated graduate students taking undergraduate courses will pay graduate tuition rates; matriculated undergraduate students taking graduate courses will pay undergraduate rates.

B. Non-matriculated students will pay tuition and fees at the level of the course: e.g., non-matriculated graduate students taking undergraduate courses will pay undergraduate tuition rates; non-matriculated undergraduate students taking graduate courses will pay graduate tuition rates.

*Full-time tuition rates for matriculated and non-matriculated students taking graduate courses must be obtained from the Bursar, 609-771-2172.

Students registering for cooperative education pay only tuition and general service fee for those credits.

Students registering for courses in Outdoor Education will be required to pay an additional $90.00 fee.

Students registering for SPP 390 will be required to pay a student teaching fee of $60.
Cooperative Education is a course that integrates the Trenton State College undergraduate students' classroom study with on-the-job work experience. Co-op students work for employers in positions that relate to their major or minor field of study. Because co-op is a course, an academic assignment is required of all participants. Students earn either 6 credits for full-time employment or 3 credits for part-time employment. On the average, student salaries range between $5.00-$7.00 per hour.

To be eligible for a co-op job, the undergraduate student must
- have completed 30 credit hours of work at Trenton State College
- be matriculated and have declared a major
- have at least a 2.00 grade point average

Students must check with their department concerning specific departmental rules and regulations regarding co-op in their area. For additional information about co-op contact the Career Services Center located in 207 Green Hall or call (609) 771-2161.
African-American Studies

AAR 499/Independent Study in African-American Studies 1-5 cr.  
Research on a topic involving African, Afro-American and/or Caribbean life, culture and/or history under the supervision of a faculty member in department of African-American Studies.  
Hours: TBA  
AAR 499A Class #2001 1 cr.  
AAR 499B Class #2003 2 cr.  
AAR 499C Class #2005 3 cr.  
AAR 499D Class #2007 4 cr.  
AAR 499E Class #2009 5 cr.  
AAR/Cooperative Education 3, 6 cr. in African-American Studies  
(See COOPERATIVE EDUCATION for description.)

Art

ART 101/Foundations of Art 3 cr.  
Through a combination of illustrated lectures alternating with studio work, students are introduced to the visual language of art. Line, shape, color, movement, texture and space are investigated as basic elements of this visual language. The work of well-known artists is analyzed to show how paintings, sculpture, architecture, prints, and crafts are created as visual statements with unique expressive and social meanings. In the studio section of the course, students are guided in the employment of the visual language to create their own expressions of mood and meaning. For non-art majors only.  
Class #5001  
6/26-7/27  
MTWR 0800-1000  
HH 374  
Instructor: Rigby  
Class #5003  
6/26-7/27  
MTWR 1030-1230  
HH 374  
Instructor: Rigby

ART 105/Introduction to Art History 3 cr.  
A survey of the history of Western art. Serves as a framework for all other art history offerings and makes the student aware of the sequence of cultural periods.  
Class #5005  
6/26-7/27  
MTWR 1245-1445  
FH 132  
Instructor: Lehman

ART 201/Printmaking 2 cr.  
**Prerequisites:** ART 101 or 111, and 116.  
Printmaking through print production, making of etchings, aquatints, engravings, dry point etchings and collage prints. Emphasis on exploring experimental contemporary developments of these techniques.  
Class #5007  
6/26-7/27  
MTWR 1700-1900  
HH 434  
Instructor: Brooks

ART 280/Photography: Special Processes I 3 cr.  
A basic photography course for art majors. Explores photographing works of art, advertising set-ups, interior design, photo analysis. Students must provide their own 35mm cameras, and may have to purchase photography chemicals and other materials.  
- This course is not covered by the guarantee.  
Class #5009  
6/26-7/27  
MTWR 1245-1445  
HH 435  
Instructor: Kaplowitz

ART 402/Advanced Printmaking 3 cr.  
**Prerequisite:** ART 201 or permission of instructor.  
During alternate semesters, specialization in one printmaking media: lithography, silk-screen, intaglio printing, relief printing, collography, etc. Emphasis on exploring an experimental contemporary application of these techniques. May be repeated.  
Class #5011  
6/26-7/27  
MTWR 1700-1900  
HH 434  
Instructor: Brooks

ART 499/Independent Study 1-6 cr.  
Cannot be taken as a substitute for any other course.  
**Prerequisites:** enrollment in the upper division art major; student must have taken a minimum of three courses in the area of study with a B+ average in these courses.  
Preregistration with approval of an art faculty sponsor and of department chair. For advanced work only.  
Individual, self-guided course of work and study for the advanced student under the supervision of a faculty advisor and/or committee. Opportunity to develop personal interests and strength within the major field. May be repeated. Must be approved in person by department chair.  
Hours: TBA  
ART 499A Class #2015 1 cr.  
ART 499B Class #2017 2 cr.  
ART 499C Class #2019 3 cr.
ART 499D Class #2021 4 cr.
ART 499E Class #2023 5 cr.
ART 499F Class #2025 6 cr.
Coordinator: Goldstein

ART 381/Photography: 3 cr.
Special Processes II
Prerequisite: ART 280 or 305.
An advanced course for students who are already familiar with basic photographic techniques. An investigation of 3M Color Key, Kodalith, Cibachrome, and other photographic processes.

- This course is not covered by the guarantee.

Class #5013
6/26-7/27 MTWR 1245-1445
HH 435 Instructor: Kaplowitz

ART/Cooperative Education 3,6 cr.
(See COOPERATIVE EDUCATION for description.)

Astronomy
(Physics Department)

AST 161/Descriptive Astronomy 3 cr.
Study of celestial bodies. Topics: earth and its motions, celestial sphere, moon, sun, planets, comets, meteors, stars, galaxies, cosmology, time, calendar. Evening observations with telescopes and planetarium demonstrations included.
Class #5171
6/26-7/27 MTWR 1935-2215
CH 114 Instructor: Hlack

Biology

BIO 181, 182/Principles of Biology I, II
Restriction: not to be taken by biology majors without permission from the chair of the Biology Department.
Major principles of biology as they relate to humans are emphasized. Mankind's evolution, bodily organization, physiology, and relatedness to other life forms are highlighted in the first semester. During the second semester, the human organism, populations and ecosystems are stressed via focus on reproduction, genetics, behavior, interspecies relations and environmental quality.

BIO 181
Class #5017
6/19-7/13 MTWR 1730-2050
Lect. NU 111 Instructor: Staff
Lab. CH 201 50% WD-6/27; Final WD-6/29

BIO 182
Class #5019
7/17-8/10 MTWR 1730-2050
Lect. NU 111 Instructor: Staff
Lab. CH 201 50% WD-7/25; Final WD-7/27

BIO 183, 184/General Biology 4,4 cr.
I, II
For biology majors. Fundamentals of cellular and subcellular structures, tissues, genetics, metabolism, and organismal biology: morphology and physiological function in plants and animals.

BIO 183
Class #5021
6/19-7/13 MTWR 0815-1300
Lect. NU 111 Instructor: Staff
Lab. CH 217 50% WD-6/27; Final WD-6/29

BIO 184
Class #5023
7/17-8/10 MTWR 0815-1300
Lect. NU 111 Instructor: Staff
Lab. CH 217 50% WD-7/25; Final WD-7/27

BIO 462/Ecology of New Jersey's Highlands 1 cr.
(5 class hours and 20 laboratory hours).
Prerequisite: BIO 261 or permission of instructor.
A study of one of the oldest land areas in New Jersey. Emphasis is placed on studies of the valleys, slopes and ridge tops of the Appalachian Mountains in New Jersey. Offered in the summer session only. Field trips at student's expense may be required.
Chemistry

CHM 201, 202/General 4,4 cr.
Chemistry I, II
Laws and theories of matter in its various states. Atomic and molecular structure from quantum and orbital interpretations. Kinetics and equilibrium. Periodicity and properties. Quantitative experiments coordinated with lectures. A working knowledge of elementary algebra is required.

CHM 201
Class #5031
6/12-7/6 MTWR 0800-1300
Lect. CH 101 Instructor: Staff
Lab. CH 319
50% WD-6/20; Final WD-6/22

CHM 202
Class #5033
7/10-8/3 MTWR 0800-1300
Lect. CH 101 Instructor: Staff
Lab. CH 319
50% WD-7/18; Final WD-7/20

CHM 350/Fundamentals of Biochemistry 3 cr.
Restriction: not applicable to chemistry major
Prerequisite: CHM 202.
An introduction to the fundamentals and principles of biochemical molecules and how they function in living systems.

CHM 351, 352/Organic 5,5 cr.
Chemistry I, II
Restriction: required for chemistry majors.
Prerequisite: CHM 202.
The chemistry of organic compounds with emphasis on reaction mechanisms. Theory and descriptive material on aliphatic, alicyclic, aromatic and heterocyclic compounds.

CHM 351
Class #5035
5/29-6/9 MTWRF 1700-2100
CH 101 Instructor: Staff
50% WD-6/1; Final WD-6/2

CHM 352
Class #5039
7/10-8/11 MTWRF 0900-1250
Lect. CH 103 Instructor: Staff
Lab. CH 339
50% WD-7/20; Final WD-7/26

CHM 499/Independent Study in Chemistry 3 to 6 cr.
Designed for senior students who are ma-

Marine Sciences Consortium at Seaville and Sandy Hook

The New Jersey Marine Sciences Consortium is a research-oriented organization of institutions of higher learning in New Jersey. It operates two field stations, one at Sandy Hook in Monmouth County and the other at Seaville in northern Cape May County. Selected courses in various fields of marine sciences are offered during the summer at both stations. Dormitory and kitchen facilities are available as well as fully equipped laboratories and field facilities. An illustrated brochure is available that describes the summer program completely.

The days and hours for the Consortium courses will be arranged. Please contact Dr. Albert Eble at (609) 771-2531 for registration information.
joring in chemistry. Individual research problems are pursued under the guidance of faculty. Chemistry minors may take three semester hours of this course by approval of the chemistry department chair. (May be repeated for credit with approval of department chair.)

Hours: TBA

CHM 499C Class #2063 3 cr.
CHM 499D Class #2065 4 cr.
CHM 499E Class #2067 5 cr.
CHM 499F Class #2069 6 cr.

CHM/Cooperative Education 3,6 cr.

Education in Chemistry

(See COOPERATIVE EDUCATION for description.)

Communication & Theatre

CTH 100/Speech I: Fundamentals 3 cr.

of Public Speaking

The techniques of public speaking. Attention given to speaker-listener relationships, management and choice of ideas; selection and organization of materials; use of language; non-verbal elements.

Class #5045
6/26-8/3 MTR 1030-1245
BL 123 Instructor: Wegner

CTH 212/Television Production I 3 cr.

Television studio production; camera operation, basic principles of lighting, sound and set design; functions of floor director; control room operations and basic television directing.

Class #5047
6/12-6/23 MTWRF 0900-1600
FH 124 Instructor: Rogosky

Class #5049
6/26-8/3 MTR 1030-1245
FH 124 Instructor: Byrne

CTH 499/Independent Study in Communication and Theatre

Prerequisite: project application must be developed with faculty supervisor and reviewed by departmental faculty prior to approval for registration. This process normally requires about 30 days.

Individual study under faculty supervision. Work may be coordinated with participation in performance activities. May be arranged to fit semester or quarter schedules.

Hours: TBA

CTH 499A Class #2075 1 cr.
CTH 499B Class #2077 2 cr.
CTH 499C Class #2079 3 cr.

CTH 499D Class #2081 4 cr.
CTH 499E Class #2083 5 cr.
CTH 499F Class #2085 6 cr.
Coordinator: Heap

CTH/Cooperative Education 3,6 cr.

in Speech Communication and Theatre

(See COOPERATIVE EDUCATION for description.)

Computer Science

CSC 101/Elements of Computing: BASIC 3 cr.

Liberal studies course. Capabilities and limitations of computers. BASIC will be studied and used to program problems in various areas of computer usage. Students who have already completed a CSC course at the 200 level or above or have taken ICD 140 may not elect this course.

Class #5061
6/26-8/3 MTWR 1250-1430
HH 253 Instructor: Staff

Class #5063
6/26-8/3 MTWR 1915-2055
HH 253 Instructor: Staff

CSC 215/Introduction to Computer Science I 3 cr.

A first course designed for computer science majors and minors. The programming language PASCAL will be taught in conjunction with problem-solving methods and algorithm development. Topics will include designing, coding, debugging and documenting programs using techniques of good programming style.

Class #5065
6/26-8/3 MTWR 1250-1430
HH 253 Instructor: Staff

CSC 499/Independent Study in Computer Science 3 cr.

Prerequisite: by invitation only. Student will study independently an appropriate area. A department member will be assigned to advise the student.

Hours: TBA

Class #2071
MAT 499C Coordinator: Conjura

CSC/Cooperative Education 3,6 cr.

(See COOPERATIVE EDUCATION for description.)
Criminal Justice

CRJ 215/Juvenile Delinquency 3 cr.
Class # 5073
6/12-6/23 MTWRF 0830-1230
BR 126 Instructor: McCormack

CRJ 425/Internship in Criminal Justice 4 cr.
By arrangement. May be repeated for credit.
Class # 5075
Hours: TBA
Instructors: Lengyel, McCormack

CRJ 499/Independent Study in Criminal Justice 3,6 cr.
Prerequisites: Criminal Justice major and permission of instructor.
For advanced students wishing to pursue a special area of interest in criminal justice. Students develop a proposal around a sophisticated research design, including problems definition, hypotheses, methodology, etc. to complete a comprehensive study. Topic and research design developed in consultation with a faculty advisor.
Hours: TBA
CRJ 499C Class # 2091 3 cr.
CRJ 499F Class # 2093 6 cr.

CRJ/Cooperative Education in Criminal Justice 3,6 cr.
(See COOPERATIVE EDUCATION for description.)

English

ENG 098/Basic Writing 2 cr. (additive)
Study of elements involved in writing good prose, with emphasis on the use of such elements in the student's own writing. May not be elected. Assigned by placement.
6/26-8/3 MTWR 1250-1430
HH 316 Instructor: Staff

ENG 109/Composition II 3 cr.
Prerequisite: English 107.
Study and practice of major forms of writing, emphasizing the writing of a research paper.
Class # 5081
6/26-7/27 MTR 0800-1040
HH 315 Instructor: Hannold

ENG 120/Experiencing Literature 3 cr.
Prerequisite: ENG 107.
An introduction to the various approaches and disciplines employed by professional literary critics and scholars to enhance their appreciation, understanding and evaluation of literary works.
Class # 5083
6/26-7/27 MTR 1340-1620
HH 315 Instructor: Brazell

ENG 222/Short Story 3 cr.
Prerequisite: English 107.
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, Chekhov.
Class # 5085
6/26-7/27 MTR 1045-1325
HH 315 Instructor: DeMeritt

ENG 246/The Film 3 cr.
Prerequisite: English 107.
Background and development of the motion picture; film technique and aesthetics; film criticism.
Class # 5087
6/12-6/23 MTWRF 0830-1230
NU 110 Instructor: Novick

ENG 345/Studies in Literature: Faith and Belief in Literature 3 cr.
A special-focus theme topics course about pilgrim-seekers-adventurers who believed in the supernatural and hungered for surprises about transcendental values of faith and belief. Readings from Sophocles, Shakespeare, Chaucer, O'Conner, Silone, Greene, Williams.
Class # 5089
6/26-7/27 MTR 0800-1040
HH 304 Instructor: Murray
## English

**ENG 499/Independent Study** 1-4 cr.  
*Prerequisite:* junior standing.  
Intensive study of a literary or linguistic problem chosen through consultation between student and instructor.  
Hours: TBA  
ENG 499A Class #2099 1 cr.  
ENG 499B Class #2101 2 cr.  
ENG 499C Class #2103 3 cr.  
ENG 499D Class #2105 4 cr.  

**ENG/Cooperative Education** 3.6 cr.  
*In English*  
(See COOPERATIVE EDUCATION for description.)

## Geoscience

**GOL 120/Introduction to Geology** 3 cr.  
An introductory course in the principles of geology. Topics will include earthquakes, glaciers, volcanoes, natural resources, the evolution of the earth and life.  
Class #5095 6/26-7/27 MTR 0950-1325  
CH 102  
Instructor: Goldstein  
Class #5097 6/26-7/27 MTR 1340-1715  
CH 102  
Instructor: Goldstein  

**GGR 499/Independent Study** 1-6 cr.  
*Prerequisite:* Approval of the department.  
In-depth geographic study of a carefully defined area of interest selected by the student.  
Hours: TBA  
GGR 499A Class #2111 1 cr.  
GGR 499B Class #2113 2 cr.  
GGR 499C Class #2115 3 cr.  
GGR 499D Class #2117 4 cr.  
GGR 499E Class #2119 5 cr.  
GGR 499F Class #2121 6 cr.  

**GOL 499/Independent Study** 1-6 cr.  
*Prerequisite:* permission of the instructor.  
The student pursues an original research project under the direction of a supervising professor.  
Hours: TBA  
GOL 499A Class #2123 1 cr.  
GOL 499B Class #2125 2 cr.  
GOL 499C Class #2127 3 cr.  
GOL 499D Class #2129 4 cr.  
GOL 499E Class #2131 5 cr.  
GOL 499F Class #2133 6 cr.  

**GGR/Cooperative Education** 3.6 cr.  
*Education in Geography*  
(See COOPERATIVE EDUCATION for description.)

## History

**HIS 101/Western Civilization** 3 cr.  
To 1648  
Political, social, economic and intellectual developments underlying western civilization from its beginning to the dawn of the Enlightenment.  
Class #5105 6/26-7/27 MTR 1340-1620  
FH 209  
Instructor: Allen  

**HIS 102/Western Civilization from 1648 to Present** 3 cr.  
Political, social, economic and intellectual developments underlying western civilization during the past three centuries. Special emphasis on forces that have molded today's world.  
Class #5107 6/26-7/27 MTR 1645-1925  
FH 209  
Instructor: Faughnan  

**HIS 115/Introduction to U.S. History:** Early 3 cr.  
Chronological survey of major developments in American history from colonial settlement through the period of reconstruction following the Civil War.  
Class #5109 6/26-7/27 MTR 0800-1040  
FH 205  
Instructor: Ellis  

**HIS 499/Independent Study** 3 cr.  
in History  
(class hours by arrangement)  
*Prerequisite:* 12 hours in history completed with an overall G.P.A. of 3.00 and/or approval of instructor and department chair.  
An intensive study of a problem or area of history through consultation and a close working relationship between student and instructor.  
Hours: TBA  
Class #2139  
Coordinator: Karras  

**HIS/Cooperative Education** 3.6 cr.  
in History  
(See COOPERATIVE EDUCATION for description.)
Mathematics

MAT 091/Basic Math  1 cr. (additive)
Skills
Academic development course. A requirement of all students scoring below criterion on a placement test. Study of fractions, decimals, ratio, proportion, and percent. Credit for this course does not count within the 128 cr. limit for graduation.

6/26-8/3
HH 124
Instructor: Staff

MAT 092/Basic Math  1 cr. (additive)
Skills
Academic development course. A requirement of all students scoring below criterion on a placement test. Study of elementary algebra and elementary geometry. Credit for this course does not count within the 128 cr. limit for graduation.

6/26-8/3
HH 124
Instructor: Staff

MAT 099/Intermediate  3 cr. (additive)
Algebra
Prerequisites: satisfactory completion of the academic development required in mathematics; demonstrated inadequate level of preparation for the courses MAT 120, 211, 227.

This course is designed for students majoring in fields where at least one of the courses, Elementary Math Analysis (MAT 120), Quantitative Analysis (MAT 211) or Calculus I (MAT 227), is required. Topics include: Elementary Algebra, Analytic Geometry and Trigonometry.

* This course is not covered by the guarantee.

Class #5115
6/26-8/3
HH 120
Instructor: Staff

MAT 101/Foundations of Mathematics I  3 cr.
Liberal studies course. Provides intuitive and formal experiences in development and appreciation of structural bases characteristics of mathematics. Topics from Logic, Sets, and Probability.

Class #5117
6/26-8/3
HH 107
Instructor: Staff

MAT 104/Mathematics in the Liberal Arts  3 cr.
Liberal studies course. Topics selected from the history of mathematics; the inter-relation between mathematics and other disciplines; and applications of mathematics to the arts, philosophy, social sciences, physical sciences, and finance. The precise list of topics chosen varies widely among sections.

Class #5119
6/26-8/3
HH 107
Instructor: Staff

Class #5121
6/26-8/3
HH 107
Instructor: Staff

MAT 115/Statistics I  3 cr.
Liberal studies course. Introduction to descriptive statistics and statistical inference. Topics include: averages, variability, histograms, probability, normal distribution, hypothesis testing.

Class #5123
6/26-8/3
HH 120
Instructor: Staff

Class #5125
6/26-8/3
HH 126
Instructor: Staff

Class #5127
6/26-8/3
HH 120
Instructor: Ismail
(This section will emphasize application in the social sciences.)

MAT 120/Elementary Mathematical Analysis (Precalculus)  3 cr.
Liberal studies course. Precalculus course for non-math majors. Fundamentals of algebra, trigonometry, and analytic geometry. Stress is on computational and problem-solving techniques.

Class #5129
6/26-8/3
HH 204
Instructor: Staff

MAT 227, 228/Calculus I, II  3,3 cr.
Liberal studies course. A two-semester course in differential and integral calculus. Prerequisite for many higher-level mathematics courses. Typical topics: limits, derivatives, integrals, transcendental functions, and techniques of integration.

Class #5131
6/26-8/3
HH 204
Instructor: Staff

Class #5133
6/26-8/3
HH 252
Instructor: Staff

MAT 228
Class #5135
6/26-8/3
HH 252
Instructor: Staff
MAT 386/Differential Equations with Numerical Techniques 3 cr.
Prerequisites: MAT 228, PHY 202.
Engineering analysis course covering first order, second order, and higher order linear differential equations, power series solutions and LaPlace transforms.

This course is not covered by the guarantee.

MAT 495/Independent Study in Statistics 3 cr.
Prerequisite: MAT 116 or permission of instructor.
The student will study independently a selected area of this discipline through the use of course books and journal articles coordinating this study under supervision of advisers.
Hours: TBA

MAT 498/Independent Study in Mathematics 3 cr.
Prerequisite: by invitation only.
Student will study independently an appropriate area. A departmental member will be assigned to advise the student.
Hours: TBA

MAT/Cooperative Education in Mathematics 3,6 cr.
(See COOPERATIVE EDUCATION for description.)

Modern Languages

FRE 499/Independent Study in French 1-4 cr.
Prerequisite: permission of instructor.
Study of advanced grammar, or of a period, genre or problem in French literature or civilization, selected following consultation between student and instructor.
Hours: TBA
Music

MUS 150/Survey of Music 3 cr.

Literature
Liberal studies offering. Examination of periods, styles and outstanding musical personalities from the Renaissance to the contemporary scene. Non-music majors only.
Class # #5153
6/26-7/27 MTR 1935-2215
BR 125 Instructor: McKinney

MUS 160/Music Fundamentals 3 cr.
(non-music majors only)
Rhythm, melody and harmony in music. Basic knowledge of the keyboard. Musical skills acquired through singing, ear-training, music reading and creating original music.
Class # #5155
6/26-7/27 MTR 1340-1620
BR 125 Instructor: Benedetti

MUS 499/Independent Study 1,2,3 cr.
Prerequisite: permission of department chair.
In-depth study of a specific musical area selected through consultation between student and teacher.
Hours: TBA

PHI 499/Independent Study 3 cr.
Pre requisite: Permission of the department.
Independent study of a particular philosophical topic, in close consultation with a member of the department.
Hours: TBA
PHI 499C Class #2190
Coordinator: Gotthelf

PHI/Cooperative Education 3,6 cr.
(See COOPERATIVE EDUCATION for description.)

Philosophy

PHI 101/Introduction to Philosophy 3 cr.
Introduction to the problems and methods of philosophical thinking. Topics discussed may include: the nature and means of knowledge, the existence of God, the relation of mind and body, free will and determinism, egoism vs. altruism, rights and equality. Readings drawn from classical and contemporary authors.
Class # #5161
6/26-8/3 MTR 1030-1245
HH 128 Instructor: Clousser

PHI 120/Introduction to Logic 3 cr.
Instruction in the basic principles and techniques of correct reasoning in ordinary life and the sciences. Analysis and evaluation of deductive arguments via formal and informal methods, detection of common fallacies, inductive and statistical reasoning.
Class # #5163
6/26-8/3 MTR 1300-1515
HH 128 Instructor: Clousser

PHI 499/Independent Study in Philosophy 3 cr.
Pre requisite: Permission of the department.
Independent study of a particular philosophical topic, in close consultation with a member of the department.
Hours: TBA
PHI 499C Class #2190
Coordinator: Gotthelf

PHI/Cooperative Education 3,6 cr.
(See COOPERATIVE EDUCATION for description.)

Physics

PHY 090/Physics for Engineering Transfers 3 cr.
Pre requisite: Permission of Dr. Katz.
A calculus-based physics course designed for transfer students who have completed two semesters of algebra-based physics. The course includes topics from Newtonian mechanics, wave motion, fields, and magnetism.
This course is not covered by the guarantee.

Class # Assigned by Dr. Katz
7/17-8/24 MTWR 1025-1205
CH 113 Instructor: Staff
50% WD-7/27; Final WD-8/3

PHY 201, 202/General Physics I, II 4,4 cr.
Corequisite for PHY 201: MAT 225 or 227.
Corequisite for PHY 202: MAT 226 or 228.
PHY 201: Mechanics and wave motion.
PHY 202: Heat, light, electricity and magnetism. Emphasizes understanding basic principles and concepts of physics. Use of problem solving is an integral part of course.

PHY 201
Class # #5173
6/12-7/6 MTWR 0800-1210
Lect. CH 111 Instructor: Haack
Lab. CH 334
50% WD-6/20; Final WD-6/22
Class #5175  
6/12-7/6  
Lect. CH 111  
Lab. CH 334  
50% WD-6/20; Final WD-6/22  
PHY 202  
Class #5177  
7/10-8/3  
Lect. CH 111  
Lab. CH 301  
50% WD-7/18; Final WD-7/20  
Class #5179  
7/10-8/3  
Lect. CH 111  
Lab. CH 301  
50% WD-7/18; Final WD-7/20  
PHY 499/Independent Study  
1-6 cr.  
in Physics  
(Hours individually arranged)  
Prerequisite: permission of instructor. 
Independent study in a selected area of 
physics, meteorology or astronomy through 
the use of scientific journals, source books 
and experimentation. This course may be 
repeated for credit if the topic is different.  
Hours: TBA  
PHY 499 Class #2197  
PHY 499 Class #2199  
PHY 499 Class #2201  
PHY 499 Class #2203  
PHY 499 Class #2205  
PHY 499 Class #2207  
Coordinator: Hiack  
PHY/Cooperative Education  
3,6 cr.  
in Physics  
(See COOPERATIVE EDUCATION for de-
scription.)  

Political Science  

POL 110/American National  
3 cr.  
Government  
The origins and development of representa-
tive government in the United States in-
cluding constitutional and extra-constitutional 
factors influencing governmental 
structure, powers, functions, and 
procedures.  
Class #5185  
6/26-7/27  
HH 252  

POL 398/Independent Study in  
1-6 cr.  
Political Science  
Prerequisite: student proposals must be 
approved by the Political Science Depart-
ment before registration.  

Independent reading or research pursued 
under supervision of departmental advisor; 
project proposals may be presented by 
upper-level students who have completed six 
semester hours of 300-400 level Political Sci-
ence courses.  
Hours: TBA  
POL 398A Class #2213  
POL 398B Class #2215  
POL 398C Class #2217  
POL 398D Class #2219  
POL 398E Class #2221  
POL 398F Class #2223  
Coordinator: Koch  

POL 497/Internship in Public  
3-6 cr.  
Affairs  
Prerequisite: permission of department.  
Supervised field experience in public agency or agency involving public affairs; 
program of readings and seminars inte-
grates theory with experience in public ad-
ministration and politics. (P/U grading.)  
Hours: TBA  
POL 497C Class #5187  
POL 497D Class #5189  
POL 497E Class #5191  
POL 497F Class #5193  
Coordinator: Koch  

POL/Cooperative Education  
3,6 cr.  
in Political Science  
(See COOPERATIVE EDUCATION for de-
scription.)  

Psychology  

PSY 101/Introductory  
3 cr.  
Psychology I  
Fundamental principles of psychology, 
stressing history and methodology, brain 
and behavior, principles of learning and per-
ception, human development and per-
sonality, abnormal behavior and treatment.  
Class #5199  
6/26-7/27  
MTWR 1245-1445  
FH 423  
Instructor: Saxton  

PSY 102/Introductory  
3 cr.  
Psychology II  
Prerequisite: PSY 101.  
Exploration and analysis of specific 
aspects of human functioning including 
cognitive processes, motivation, emotion, 
states of consciousness, individual dif-
fences and social behavior.  
Class #5201  
6/26-7/27  
MTWR 0800-1040  
FH 424  
Instructor: Phillips
PSY 203/Statistics in Behavioral Science I 3 cr.
Prerequisite: PSY 101 and 102.
Restriction: open only to psychology majors or double majors.
Elementary calculation and interpretation of standard statistical techniques. Parametric measures up to elementary analysis of variance, factorial design. Introduction to nonparametrics.
Class #5203
6/26-7/27  MTWR 1245-1445
FH 424  Instructor: Gorczynski
Class #5205
6/26-7/27  MTWR 1030-1230
FH 423  Instructor: Gorczynski

PSY 222/Child Psychology 3 cr.
Prerequisite: PSY 101.
Psychological, physical and social development of children. Theories of development include learning dynamic and cognitive theories.
Class #5207
6/26-7/27  MTWR 1030-1230
FH 410  Instructor: Staff

PSY 224/Adolescent Psychology 3 cr.
Prerequisite: PSY 101.
Physical, intellectual, personality and social development during the period from puberty to the attainment of full adult status within the society. Emphasis on family, peer, school and community influences on development.
Class #5209
6/26-7/27  MTWR 1245-1445
FH 410  Instructor: Staff

PSY 313/Learning, Memory and Motivation 3 cr.
Prerequisite: PSY 101.
Examination of the fundamental principles of major learning theories, memory and attention, motivation, and their application to human life experiences.
Class #5211
6/26-7/27  MTWR 1245-1445
FH 411  Instructor: Staff

PSY 316/Personality 3 cr.
Prerequisite: PSY 101 and 3 additional s.h. of psychology.
Contemporary approaches to the study of personality. Detailed treatment of various modern theories of personality. Major determinants and dynamics of personality organization.
Class #5213
6/26-7/27  MTWR 1030-1230
FH 409  Instructor: Staff

PSY 331/Introduction to Abnormal Psychology 3 cr.
Prerequisite: 6 s.h. of psychology.
Principal types of behavior pathology, including neurotic, psychotic and psychopathic disorders. Variables which theories and research indicate as important in the development of abnormal behavior.
Class #5215
6/26-7/27  MTWR 1030-1230
FH 407  Instructor: Saxton

PSY 333/Mental Health 3 cr.
Prerequisite: 6 s.h. of psychology.
Examination of problems involved in self-understanding and understanding of others. Discussion of personality and personal value systems. Elementary discussion of common behavior problems.
Class #5217
6/12-6/23  MTWR 0930-1630
BR 127  Instructor: Hohmuth

PSY 499/Independent Study 1-6 cr.
in Psychology
Prerequisite: permission of instructor and department.
For advanced students. In-depth study of specific topic in psychology. Formal proposal must be submitted to department and approved before the student can register for independent study.
Hours: TBA
PSY 499A  Class #2229  1cr.
PSY 499B  Class #2231  2cr.
PSY 499C  Class #2233  3cr.
PSY 499D  Class #2235  4cr.
PSY 499E  Class #2237  5cr.
PSY 499F  Class #2239  6cr.
Coordinator: Phillips

PSY/Cooperative Education in Psychology
(See COOPERATIVE EDUCATION for description.)

Religion
REL 151/World Religions 3 cr.
The course will explore the teachings and practices of the world's greatest religions. Presentation and comparison of the major teachings of such traditions as Hinduism, Buddhism, Taoism, Confucianism, Shinto, Judaism, Christianity, and Islam.
Class #5165
6/26-8/3  MTR 1030-1245
FH 224  Instructor: Smith
REL 497/Independent Study in Religion
Prerequisite: Permission of the department.
Independent study of a particular topic in religion, in close consultation with a member of the department.
Hours: TBA
REL 497C Class #2191
Coordinator: Gotthelf

REL/Cooperative Education 3 cr.
(See Cooperative Education.)

SOC 101/Introductory Sociology 3 cr.
Perspectives and methods of the sociological approach. Analysis of institutions, class, ecology, and the processes of interaction. An introductory study of the nature of culture and cultural change.
Class #5223
6/26-8/3 MTR 1030-1245
BL 233 Instructor: Anderson

SOC 315/Minority Group Relations 3 cr.
Prerequisite: SOC 101.
Racial, religious, ethnic, sexual and other minorities; their interaction with the dominant society. Social, psychological and economic factors in minority-majority relations.
Class #5225
6/26-8/3 MTR 1300-1515
BL 233 Instructor: Anderson

SOC 325/Topics in Sociology: 3 cr.
Sociological Perspective on Mental Health
The impact of social factors on individuals which lead to personal difficulties. Social definitions of mental health and mental illness as related to power. Students will also be taught re-evaluation co-counseling techniques as a means of achieving understanding and control for themselves and others. This course is recommended for students who wish to pursue careers in human services.

SOC 402/Independent Study in Sociology 1-3 cr.
Prerequisites: SOC 101 and permission of instructor and department.
For advanced students. In-depth study of specific topic in sociology. Formal proposal must be submitted to department and approved before the student can register for independent study.
Hours: TBA
SOC 402A Class #2245 1 cr.
SOC 402B Class #2247 2 cr.
SOC 402C Class #2249 3 cr.
Coordinator: Robboy

SOC/Cooperative Education 3,6 cr.
in Sociology
(See COOPERATIVE EDUCATION for description.)
The following computer usage modules are designed to introduce students to the various uses of computers in business and to help them develop computer-usage skill. While each module carries one semester of credit, students are cautioned that only three credits may be counted toward meeting degree requirements in the School of Business.

BUS 200/Introduction to Microcomputer and Its Operating System 1 cr.
Class #5241 6/5-6/9 MTWRF 0900-1200
BL 28 Instructor: Braender
50% WD-6/6; Final WD-6/7
Class #5243 6/12-6/16 MTWRF 0900-1200
BL 28 Instructor: Braender
50% WD-6/13; Final WD-6/14

BUS 201/Introduction to Word Processing 1 cr.
Class #5245 6/5-6/9 MTWRF 1300-1600
BL 31 Instructor: Letcher
50% WD-6/6; Final WD-6/7

BUS 202/Introduction to Mainframes 1 cr.
Class #5247 6/5-6/9 MTWRF 0900-1200
BR 125 Instructor: Letcher
50% WD-6/6; Final WD-6/7
Class #5249 6/12-6/16 MTWRF 1300-1600
BR 125 Instructor: Letcher
50% WD-6/13; Final WD-6/14

BUS 203/Introduction to the use of Spreadsheets 1 cr.
Class #5251 6/5-6/9 MTWRF 1300-1600
BL 28 Instructor: Braender
50% WD-6/6; Final WD-6/7
Class #5253 6/12-6/16 MTWRF 1300-1600
BL 28 Instructor: Braender
50% WD-6/13; Final WD-6/14

BUS 204/Introduction to a Micro Database System 1 cr.
Class #5255 6/12-6/16 MTWRF 0900-1200
BL 31 Instructor: Letcher
50% WD-6/13; Final WD-6/14

BUS 499/Independent Study 1-6 cr.
Prerequisite: permission of instructor.
An opportunity to engage in individual or small-group projects and studies not otherwise available in the curriculum, under the supervision of a faculty advisor.
Hours: TBA
BUS 499A Class #2261 1 cr.
BUS 499B Class #2263 2 cr.
BUS 499C Class #2265 3 cr.
BUS 499D Class #2267 4 cr.
BUS 499E Class #2269 5 cr.
BUS 499F Class #2271 6 cr.
Coordinator: Patrick

BUS/Cooperative Education 3,6 cr.
in Business
(See COOPERATIVE EDUCATION for description.)

Economics

ECO 201/Principles of Economics: Macro 3 cr.
Macroeconomics: an introduction to economic concepts and their application to problems of unemployment, inflation and economic growth. Government fiscal and monetary policies are examined, along with international considerations.
Class #5261 6/5-6/29 MTWRF 1000-1230
NU 324 Instructor: Breslin
50% WD-6/13; Final WD-6/15

ECO 230/Business and Economic Statistics 3 cr.
Prerequisite: MAT 227, 228.
Basic tools and techniques of descriptive and inferential statistics especially as applied to business.
Class #5263 6/5-6/29 MTWRF 1000-1230
NU 335 Instructor: Samanta
50% WD-6/13; Final WD-6/15

ECO 231/Applied Economics and Business Statistics 3 cr.
Prerequisites: ECO 201 and 202 (one of which may be taken concurrently), and ECO 230 in which student must have earned a "C" or better.
Application of statistical techniques to business problems. The regression model is emphasized.
**Marketing**

**MKT 340/Marketing Principles** 3 cr.
(Computer lab project in addition to class hours)

*Prerequisites:* ACC 261, PSY 101, MAT 228, ECO 201, 202, 230.

An introduction to the marketing discipline. Exposes students to the variables examined in designing marketing strategy and the options available to the marketing manager.

**Class #5273**
6/26-7/27  
MTWR 1030-1230  
BL 125  
Instructor: Das

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**Management**

**MGT 310/Management of Organization Behavior** 3 cr.
(Computer lab project in addition to class hours)

*Prerequisites:* ACC 261, PSY 101, MAT 228, ECO 201, ECO 202, ECO 230.

Focus on the manager as a leader utilizing and developing human resources. Management tasks of organizing and staffing are examined in relation to individual/organizational/technological constraints.

**Class #5271**
6/26-7/27  
MTR 1340-1620  
BL 123  
Instructor: Hofmann
### Early Childhood Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 498A</td>
<td>Class #2287</td>
<td>1 cr.</td>
<td>An in-depth independent study of an aspect of early childhood education chosen through consultation between the student and a faculty advisor.</td>
</tr>
<tr>
<td>ECE 498B</td>
<td>Class #2289</td>
<td>2 cr.</td>
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<tr>
<td>ECE 498C</td>
<td>Class #2291</td>
<td>3 cr.</td>
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<td>Coordinator: Tharney</td>
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### Elementary Education

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisite</th>
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</thead>
<tbody>
<tr>
<td>ELM 498A</td>
<td>Class #2313</td>
<td>1 cr.</td>
<td>An independent study of an aspect of elementary education chosen through consultation between the student and a faculty advisor.</td>
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<tr>
<td>ELM 498B</td>
<td>Class #2315</td>
<td>2 cr.</td>
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<tr>
<td>ELM 498C</td>
<td>Class #2317</td>
<td>3 cr.</td>
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</table>

### Educational Administration and Secondary Education

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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisite</th>
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</thead>
<tbody>
<tr>
<td>SEC 491</td>
<td>Seminar in Supervised</td>
<td>6 cr.</td>
<td>Approval of Graduate Coordinator.</td>
</tr>
<tr>
<td></td>
<td>Teaching: Secondary and Special</td>
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<td></td>
<td>Fields—Observation and Participation</td>
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<tr>
<td></td>
<td>Part I: A series of pre-session</td>
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<td></td>
<td>orientation meetings held during</td>
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<td>the early part of June.</td>
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<td></td>
<td>Part II: A summer session</td>
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<td></td>
<td>consisting of pedagogy, class</td>
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<td></td>
<td>discussions, conferences,</td>
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<td>observation and limited participation</td>
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<td>in demonstration classes, projects</td>
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<td></td>
<td>and educational trips.</td>
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<tr>
<td></td>
<td>Topics include aims and objectives</td>
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<tr>
<td></td>
<td>of present-day educational programs,</td>
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<td></td>
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<tr>
<td></td>
<td>lesson and unit planning, creative</td>
<td></td>
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<tr>
<td></td>
<td>teaching strategies, the public</td>
<td></td>
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<tr>
<td></td>
<td>school curriculum, classroom</td>
<td></td>
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<tr>
<td></td>
<td>management, measurement and</td>
<td></td>
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<tr>
<td></td>
<td>evaluation of student progress.</td>
<td></td>
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<tr>
<td></td>
<td>Open to graduate students enrolled</td>
<td></td>
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<tr>
<td></td>
<td>in MAT programs.</td>
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</tr>
<tr>
<td>Class #5289</td>
<td>6/12-7/19 MTWRF 0830-1300</td>
<td></td>
<td>Instructor: Farber</td>
</tr>
<tr>
<td></td>
<td>FH 159/201 50% WD-6/22; Final WD-6/29</td>
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</tbody>
</table>

### Health Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>HED 150</td>
<td>Contemporary Health</td>
<td>2 cr.</td>
<td>Scientific discovery and recent progress in health</td>
</tr>
<tr>
<td></td>
<td>Science as an approach to the</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>solution of health problems.</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Health is considered as a means</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>to effective living; self-</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>evaluation is encouraged.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class #5297</td>
<td>6/12-6/23 MTWRF 1700-1940</td>
<td></td>
<td>Instructor: McCorkle</td>
</tr>
<tr>
<td>PA 247</td>
<td></td>
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<tr>
<td>HED 356</td>
<td>Foundations of Sex</td>
<td>3 cr.</td>
<td>Analysis of human sexuality, including human sexual</td>
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<tr>
<td></td>
<td>Education</td>
<td></td>
<td>response, value clarification, contraception,</td>
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<td></td>
<td></td>
<td></td>
<td>abortion, reproduction, social mores, homosexuality,</td>
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<td></td>
<td></td>
<td></td>
<td>sex research and sex education. Curriculum design and</td>
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<td></td>
<td></td>
<td></td>
<td>implementation.</td>
</tr>
<tr>
<td>Class #5297</td>
<td>6/12-6/23 MTWRF 0800-1330</td>
<td></td>
<td>Instructor: Brown</td>
</tr>
<tr>
<td>PA 245</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>HED 453</td>
<td>Alcohol and Narcotics</td>
<td>3 cr.</td>
<td>Investigates various drug dependencies and their effect</td>
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<tr>
<td></td>
<td>Workshop</td>
<td></td>
<td>on the individual and society. Scientific discovery</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>regarding the use, misuse and abuse of mood-modifying</td>
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<td></td>
<td></td>
<td></td>
<td>substances is emphasized.</td>
</tr>
<tr>
<td>Class #5299</td>
<td>6/26-7/27 MTR 1645-1925</td>
<td></td>
<td>Instructor: Herzstein</td>
</tr>
<tr>
<td>PA 249</td>
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</tbody>
</table>
HED 491/Practicum in Health Services
The major focus of the practicum is upon assisting the student in becoming familiar with the organization, operation and services of a particular agency or agencies. A series of planned experiences will include exposure to the existing legal, political, educational and health structures and the rules and regulations pertaining thereto.
Class # 5301  Instructor: Hill

HED 497/Workshop in Health Education: AIDS
In-depth study of AIDS from the basics (transmission, prevention, education), to coping (psychosocial issues), to helping (volunteerism, health/social services), to caring (critical issues, research).

- This Course Is Not Covered by the Guarantee.

Class # 5303
6/1-6/22  MTWRF 1800-2100
PA 245  Instructors: Cochrane & Gorzynski
50% WD-6/8; Final WD-6/12

HED 499/Independent Study in Health
Prerequisite: approval of topic by department; for advanced students.
In-depth study of a carefully defined area of health.
Hours: TBA
HED 499A Class # 2323 1 cr.
HED 499B Class # 2325 2 cr.
HED 499C Class # 2327 3 cr.
HED 499D Class # 2329 4 cr.
HED 499E Class # 2331 5 cr.
HED 499F Class # 2333 6 cr.
Coordinator: Hill

HED/Cooperative Education in Health
(See COOPERATIVE EDUCATION for description.)

<table>
<thead>
<tr>
<th>Physical Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>See also: Health Education; Safety</td>
</tr>
</tbody>
</table>

PED 131/Golf 1 cr.
Development of golfing skills, plus knowledge of basic rules and etiquette. Field trips may be required at student expense.
Class # 5305
6/12-6/23  MTWRF 1530-1830
PA 243  Instructor: Oshel

PED 203-204/Human Anatomy and Physiology
Prerequisite: BIO 181 & 182.
Structure and function of the various tissues, organs and systems of the human body, with applications of structural and functional relationships pertinent to the professions of health and physical education.
NOTE: This course is not intended for nursing majors.
Class # 5307
6/19-7/6  MTWRF 0800-1205
PA 242  Instructor: Chilakos
50% WD-6/22; Final WD-6/27

PED 204
Class # 5309
7/10-7/27  MTWRF 0800-1205
PA 242  Instructor: Chilakos
50% WD-7/13; Final WD-7/18

PED 393/Practicum I 3,6 cr.
Emphasis upon practical experience, observation, participation and organization of programs of fitness, healthful living or recreational skills sponsored by publicly and privately supported agencies or businesses.
Hours: TBA
PED 393C Class # 5313 3 cr.
PED 393F Class # 5314 6 cr.
Instructor: Hill

PED 493/Practicum II 3, 6 cr.
Emphasis upon practical experience, research, observation, participation, organization, administration and supervision in programs of fitness, healthful living or recreational skills sponsored by publicly or privately supported agencies or businesses.
Hours: TBA
PED 493C Class # 5315 3 cr.
PED 493F Class # 5316 6 cr.
Instructor: Hill
PED 499/Independent Study  1-6 cr.
In Physical Education
Prerequisite: Approval of topic by department.
For advanced student; in-depth study of a carefully defined area of physical education.
Hours: TBA
PED 499A Class #2339 1 cr.
PED 499B Class #2341 2 cr.
PED 499C Class #2343 3 cr.
PED 499D Class #2345 4 cr.
PED 499E Class #2347 5 cr.
PED 499F Class #2349 6 cr.
Coordinator: Hill
PED/Cooperative Education  3,6 cr.
In Physical Education
(See COOPERATIVE EDUCATION for description.)

Reading and Language Arts
RDG 098/Self 2 cr. (additive)
Improvement: Reading and Study
Skills Part I
Sequential development of basic and complex comprehension skills, vocabulary
and the improvement of study techniques.
Class #6007
6/26-8/3  MTWR 1520-1700
FH 201  Instructor: Metzger
RDG 328/Teaching Reading in 2 cr.
The Middle and Senior High School
A study of the theory and practice of teaching reading in the middle school, junior high
school and senior high school. Content includes: a study of the reading process; the
identification and application of comprehension and study skills to be stressed in
the content areas; the planning of Directed Reading Activity; motivation for the reluctant
reader; the identification of problem readers with prescribed instructional remediation.
Class #5281
6/26-7/27  MTR 0800-1040
FH 319  Instructor: Shepherd
RDG 422/Diagnosis of Reading 2 cr.
Difficulties
General nature of reading difficulties; identification, causes, diagnosis, analysis
and corrective procedures. Included is the administration of an informal reading test
with diagnosis and prescription based on the results.

Recreation
REC 395/Fieldwork 3 cr.
Experiences in Recreation
Prerequisites: junior standing, major in recreation.
Observation and limited participation as a paraprofessional in local recreation
programs. Emphasis on assuming line positions in the program in order to conduct specific
activities.
Class #5317
6/1-8/31  Hours: TBA
Instructor: Oshel
REC 493/Internship in Recreation  12 cr.
Prerequisites: senior standing, major in recreation.
Full semester of internship during the senior year with approved professionals in
selected recreation programs. Direct supervision by professionals and college faculty
supervisors. The student will assume line or staff level positions in the urban or inner-city
setting. Research, observation, participation, organization and supervision of activities
(P/U grading).
Class #5319
6/1-8/31  Hours: TBA
Instructor: Oshel
REC 499/Independent Study  1-6 cr.
In Recreation
Prerequisite: approval of topic by department.
For advanced students; in-depth study of a carefully defined area of recreation.
Hours: TBA
REC 499A Class #2355  1 cr.
REC 499B Class #2357  2 cr.
REC 499C Class #2359  3 cr.
REC 499D Class #2361  4 cr.
REC 499E Class #2363  5 cr.
REC 499F Class #2365  6 cr.
Coordinator: Oshel
REC/Cooperative Education 3,6 cr.
in Recreation
(See COOPERATIVE EDUCATION for description.)

Safety

SAF 204/Emergency Care 3 cr.
Basic safety and emergency first aid knowledge and skills with opportunity to attain American Red Cross CPR and First Aid certification.
Class #5321
5/30-6/16 MTWRF 0830-1330
PA 265/266 Instructor: Fisher
50% WD-6/5; Final WD-6/7

SAF 335/Driver Education 3 cr.
Prerequisite: senior standing or approval of program director.
Methodology relating to knowledge, skill and psychological considerations in teaching driver education. This course certifies individuals to teach driver education in New Jersey.
Class #5323
6/5-6/23 MTWRF 1600-1850
PA 242 Instructor: Medve
50% WD-6/9; Final WD-6/14

Special Education

SED 499/Independent Study 1-6 cr.
in Special Education
To encourage students to explore independently a specific topic under the supervision of a faculty member. Such a study could include a unique case study, exploration of a research topic, extensive reading in an area of interest, participation in department of inter-agency clinics, workshops, etc., or such other independent studies that would contribute to the professional growth of the student.
Hours: TBA
SED 499A Class #2367 1 cr.
SED 499B Class #2369 2 cr.
SED 499C Class #2371 3 cr.
SED 499D Class #2373 4 cr.
SED 499E Class #2375 5 cr.
SED 499F Class #2377 6 cr.
Coordinator: Haines

SED/Cooperative Education in Special Education 3,6 cr.
(See COOPERATIVE EDUCATION for description.)
Speech Pathology and Audiology

SPP 390/Clinical Experience 3 cr.
in Speech/Language Pathology and Audiology

Prerequisite: matriculation in major and junior standing.

Participation in a minimum of twenty-five hours of faculty-supervised diagnostic and therapeutic sessions in the TSC Speech-Language Center; clinical functioning, client management procedures, and therapeutic approaches and techniques; development of therapy activities and materials. Student teaching fee is required.

Class #5335  Hours: TBA  Instructor: Hornyak
FH 142

SPP 490/Student Teaching 3 cr.
Clinical Practice I

Prerequisite: Completion of freshman, sophomore and junior speech pathology and audiology courses with 2.5 g.p.a. in major.

Supervised clinical experience in speech and language therapy with children and adults. (P/U grading)

Class #5337  Hours: TBA  Instructor: Hornyak
FH 142

SPP 498/Senior Studies 1-3 cr.
in Speech, Pathology, Audiology and Education of the Hearing Impaired

Prerequisites: major in speech pathology and audiology or education of the hearing impaired; senior standing.

Individual study, under faculty supervision, enabling students to engage in intensive investigation of an area of major specialization using research procedures.

Hours: TBA
SPP 498A Class #2381  1 cr.
SPP 498B Class #2383  2 cr.
SPP 498C Class #2385  3 cr.
Coordinator: Jenson

SPP 499/Selected Topics in 1-6 cr.
Speech Pathology, Audiology, and Education of the Hearing Impaired

In-depth study and/or field experiences on current or specialized topics in speech pathology, audiology, or education of the hearing impaired, proposed by faculty and approved by the department.

SPP 499A Class #5339  1 cr.
SPP 499B Class #5341  2 cr.
SPP 499C Class #5343  3 cr.
SPP 499D Class #5345  4 cr.
SPP 499E Class #5347  5 cr.
SPP 499F Class #5349  6 cr.
FH 168  Instructor: Jenson

SPP/Cooperative Education 3,6 cr.
in Speech Pathology
(See COOPERATIVE EDUCATION for description.)
NUR 404/Elements of the Research Process—
A Basis for the Practice of Professional Nursing

Prerequisites: NUR 402, 422, MAT 115

An introduction to the elements, process and evaluation of research as a scientific base of knowledge fundamental to the practice of nursing.

Class #5355
5/30*-6/15
Lect. NU 111
Lab. 225

50% WD-6/1; Final WD-6/5

* First class will meet on Tuesday, 5/30.
Electronics Engineering Technology

ELE 090/EE Analysis for 2 cr. (additive)

Transfer

Prerequisite: Two semesters of calculus, permission of Dr. Katz.

A calculus-based circuits course designed for transfer students who have completed two semesters of algebra-based circuits and devices. The course includes topics from first and second order circuits, transfer functions, poles and zeros, and LaPlace transform circuit analysis.

*This course is not covered by the guarantee.

For Information and Registration contact:
Dr. A. Katz
Electronics Engineering Technology
Trenton State College
Hillwood Lakes CN4700
Trenton, New Jersey 08650-4700
609-771-2487
Class # Assigned by Dr. Katz.
7/17-8/24 AR 73 MTWR 1400-1515 50% WD-7/24; Final WD-8/1

ELE 492, 493/Senior Project I, II 2,2 cr.

Prerequisite: senior standing and an approved project proposal.

Focusing on student's previous experience upon specific technical projects. Library research, design, cost analysis, construction, testing and project management. Students work with faculty advisor and review other student's projects during class meetings.

ELE 492
Class #5363 6/6-8/26 T 1800-2100 Instructor: Katz
AR 54

ELE 493
Class #5365 6/6-8/26 T 1800-2100 Instructor: Katz
AR 54

ELE 496/Independent Study 1-6 cr.

Prerequisite: permission of instructor and department.

For advanced students wishing to pursue a special area of interest. Topic developed in consultation with a faculty advisor.

Hours: TBA
ELE 497A Class #2389 1cr.
ELE 497B Class #2391 2cr.
ELE 497C Class #2393 3cr.
ELE 497D Class #2395 4cr.
ELE 497E Class #2397 5cr.
ELE 497F Class #2399 6cr.
Coordinator: Katz

ELE/Cooperative Education 3,6 cr.
in Electronics Engineering Technology
(See COOPERATIVE EDUCATION for description.)

Industrial Engineering Technology

INE 215/Computer Aided Drafting 3 cr.

Prerequisite: TED 111 or consent of the instructor.

An introduction to the utilization of computer technology for drafting; to create or modify engineering and architectural designs in the production of a product. The course is laboratory-oriented covering topics such as sketching, dimensioning, hatching, isometric drawings, basic drawing entities, layering, digitizing, blocking and plotting.

Class #5371 6/26-7/13 MTWR 1700-2040 INSTRUCTOR: Hess
AR 6 50% WD-6/29; Final WD-7/5

IET 497/Independent Study 1-4 cr.

Prerequisite: permission of instructor and dean of School of Technology.

For advanced students wishing to pursue a special area of interest. Topic developed in consultation with faculty advisor.

Hours: TBA
IET 497A Class #2403 1cr.
IET 497B Class #2405 2cr.
IET 497C Class #2407 3cr.
IET 497D Class #2409 4cr.
Coordinator: Bittner

INE/Cooperative Education 3,6 cr.
in Industrial Education Technology
(See COOPERATIVE EDUCATION for description.)

29
Mechanical Engineering Technology

MEC 492/Senior Design Project I 1 cr.
*Prerequisite:* junior standing.
Analysis or synthesis of a technical problem, under faculty advisor supervision. Problem topic is chosen by student with approval of advisor. Project will require elements of library research, design, fabrication, test and cost analysis. First semester is devoted to selection of the problem, and preparation of a formal project proposal and time schedule of activities.

**Class #5379**
Instructor: Shelley

MEC 493/Senior Design Project II 2 cr.
*Prerequisite:* MEC 492.
Continuation of project started in MEC 492.

**Class #5381**
Instructor: Shelley

MEC 495/Independent Study 1-4 cr.
*Prerequisite:* permission of instructor.
For advanced students wishing to pursue a special area of interest. Topic developed in consultation with a faculty advisor.

**Hours:** TBA

MEC 495A Class #2413 1cr.
MEC 495B Class #2415 2cr.
MEC 495C Class #2417 3cr.
MEC 495D Class #2419 4cr.
Coordinator: Bittner

MET/Cooperative Education 3.6 cr.
in Mechanical Engineering Technology
(See COOPERATIVE EDUCATION for description.)

Technology Education

TED 497/Independent Study in Technology Education 1-6 cr.
*Prerequisites:* permission of instructor and dean of School of Technology.
For advanced students wishing to pursue a special area of interest. Topic developed in consultation with a faculty advisor.

**Hours:** TBA

TED 497A Class #2427 1cr.
TED 497B Class #2429 2cr.
TED 497C Class #2431 3cr.
TED 497D Class #2433 4cr.
TED 497E Class #2435 5cr.
TED 497F Class #2437 6cr.
Coordinator: Bittner

TED/Cooperative Education in Technology Education 3.6 cr.
(See COOPERATIVE EDUCATION for description.)
Vocational Education

VOC 391/Foundations of Vocational Education
Review of the sociological, philosophical and psychological foundations of vocational education with specific focus on its historical roots, present goals, values and contributions. An overview of the American educational system and how vocational education fits into the scenario. A review of vocational programs, students, facilities and responsibilities of teachers.
Class # 5387
6/26-8/3
MTR 1700-1915
BL 123
Instructor: Alexander

VOC 393/Managing Learning in Vocational Education
Prerequisite: VOC 391.
Identification and selection of teaching strategies, techniques and behaviors which facilitate learning. Emphasis on lesson planning, developing behavioral objectives, evaluation, safety and the effects of group processes on the learning environment. Specific focus on classroom climate, verbal and nonverbal communication, transactional analysis, leadership development and interaction analysis procedures.
VOC 393
Class # 5389
6/26-8/3
MTR 1930-2145
BL 123
Instructor: Alexander

VOC 466/Workshop in Vocational Education
Topic: New Technological Applications
Prerequisites: recommendation of faculty advisor, approval of department chair.
A series of workshops designed to bring vocational teachers up to date with industry and technology.
VOC 466A Class # 5391 1 cr.
VOC 466B Class # 5393 2 cr.
Hours: TBA
Instructor: Alexander

VOC 497/Independent Study in Vocational Education
Prerequisites: permission of instructor and dean of School of Technology.
For advanced students wishing to pursue a special area of interest. Topic developed in consultation with a faculty advisor.
Hours: TBA
VOC 497A Class # 2443 1 cr.
VOC 497B Class # 2445 2 cr.
VOC 497C Class # 2447 3 cr.
Coordinator: Alexander
GRADUATE

- ADMISSION

- REGISTRATION PROCEDURES

- COURSE OFFERINGS
ADMISSION TO GRADUATE STUDIES

ACADEMIC REQUIREMENTS

MATRICULATED STUDENTS

Applicants for matriculation must submit a completed application, official transcript of all previous college or university work, test scores from the required nationally standardized test identified by the specific program, and a $25 non-refundable check or money order payable to Trenton State College.

Those who have completed this process and have been accepted for matriculation by May 15, 1989 will be allowed to enroll in summer courses.

PRE-MATRICULATED STUDENTS

A student who is required to complete specified preparatory study will be informed of the prerequisites which must be completed within a two-year period. Upon completion of all requirements, the applicant will be eligible for matriculation.

SPECIAL-ADMISSION STUDENTS

The special-admission category is intended for graduate students taking courses for professional or personal growth only.

Applicants for special admission must submit by May 15, 1989, a completed special-admission application, a non-refundable check or money order for $25 payable to Trenton State College, and an official transcript from an accredited college or university showing the highest degree attained. A minimum cumulative undergraduate average of 2.75 (on a 4-point scale), or a minimum average of 3.0 in the undergraduate major is required.

Special-admission students may remain in this category for six years without matriculating. Those who wish to matriculate must apply and be admitted within 12 months after enrollment in the first course. Students who do not matriculate within the 12-month period may not apply for matriculation until the special-admission status expires at the end of six years. For more information see the Graduate Bulletin.

STUDENTS FROM FOREIGN COUNTRIES

Students from countries in which English is not the native language must submit the results of the Test of English as a Foreign Language (TOEFL) as part of the matriculation application.

Information on the Graduate Record Examination (GRE) and the Test of English as a Foreign Language is available in the Graduate Office at Trenton State College and also directly from Educational Testing Service, Princeton, NJ 08541.

In all cases, the student assumes the responsibility for knowing and meeting the various regulations and procedures as stated in the annual Graduate Bulletin. For detailed information contact the Graduate Office, room 109 in Green Hall or phone (609) 771-2255.
GRADUATE REGISTRATION
PROCEDURES

Registration for courses may be accomplished by mail (mail registration is recommended to ensure your place in class) or in person. **Payment for all tuition and fees is required at the time of registration.**

MAIL-IN REGISTRATION

TO REGISTER BY MAIL between April 10 and May 5:

1. Complete forms A and B. Obtain an advisor's signature on Form A.
2. Follow admission procedures (p.33) if not previously enrolled at Trenton State College. All admissions documentation must be on file at TSC at least two weeks before your class begins but no later than June 2, 1989.
3. Enclose forms with check or money order for tuition and fees and application fee if applicable (made payable to Trenton State College) and mail, in the enclosed self-addressed envelope, to:

   Division of Graduate and Continuing Studies
   Trenton State College
   Hillwood Lakes
   CN 4700
   Trenton, NJ 08650-4700

   Note: Summer independent course-work contracts must accompany registration forms.

   Allow us two weeks to process your materials. We will then send your registration confirmation. Check all of your registration materials carefully; if they are incorrect we will return them to you. We cannot hold your place in class until all of the appropriate procedures have been completed.

IN-PERSON REGISTRATION

TO REGISTER IN-PERSON between May 15 and June 2:

1. Complete forms A and B. Obtain an advisor's signature on Form A.
2. If you were not previously enrolled at Trenton State College, see page 33 for admission procedures. All admissions documentation must be on file at TSC at least two weeks before your class begins but no later than June 2, 1989.
3. Bring the completed forms and your check or money order (made payable to Trenton State College) to:

   Division of Graduate and Continuing Studies
   Green Hall, Room 109
   between the hours of 1:00 and 3:30 p.m., Mondays through Wednesdays and between 5:00 and 7:30 p.m., Thursdays. (After hours you may drop your registration materials in the office mail slot.)

   Note: Summer independent course-work contracts must accompany registration forms.
REGISTRATION DEADLINES

READ CAREFULLY THE REGISTRATION DEADLINES BELOW:

No registration can be accepted after the deadlines stated. These deadlines have been adjusted to make certain that all materials will be processed on time.

MAIL REGISTRATION
April 10-May 5

IN-PERSON REGISTRATION
May 15-June 2
1:00-3:30 p.m. Monday through Wednesday
5:00-7:30 p.m. Thursday
(No registration on Monday, May 29)

LATE REGISTRATION ($15 late registration fee)
June 8
3:30-7:30 p.m. Thursday
June 15
3:30-7:30 p.m. Thursday
(No new admits accepted during late registration)

Please note: Cash cannot be accepted at evening registrations.

FINAL REGISTRATION FOR INDEPENDENT STUDY IS JUNE 2.
### TABLE OF GRADUATE TUITION AND FEES

<table>
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<th>Out-of-State Tuition</th>
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**NOTES:**

Tuition and fees are subject to change by action of the Trenton State College Board of Trustees.

A student shall be classified as a "New Jersey Resident" for tuition purposes upon admission to a public institution of higher education in the State of New Jersey if the student or the parent(s) or guardian(s) upon whom the student is financially dependent has been a bona fide domiciliary of the State of New Jersey for at least one year immediately prior thereto.

All tuition and fees are due at the time of registration (no deferred payments).

For 1 to 11 credits:

A. Matriculated students will pay tuition and fees at the level of their matriculation: e.g., matriculated graduate students taking undergraduate courses will pay graduate tuition rates; matriculated undergraduate students taking graduate courses will pay undergraduate rates.

B. Non-matriculated students will pay tuition and fees at the level of the course: e.g., non-matriculated graduate students taking undergraduate courses will pay undergraduate tuition rates; non-matriculated undergraduate students taking graduate courses will pay graduate tuition rates.

*Full-time tuition rates for matriculated and Special Admission students taking undergraduate courses must be obtained from the Bursar, 609-771-2172.

Students registering for SPP 590A or SPP 590B must pay an additional $60 fee.
Biology

BIO 697/Independent Study in Biology 1-3 cr.

In-depth exploration of a topic within a specific area of the discipline involving supervised reading, research, and regular conferences with the faculty advisor.

Hours: TBA
BIO 697A Class #3001 1 cr.
BIO 697B Class #3003 2 cr.
BIO 697C Class #3005 3 cr.

BIO 698/Departmental Project in Science Education (Biological Science) 3 cr.

Prerequisite: Open only to matriculated graduate students with a concentration in biological sciences.

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

Hours: TBA
Class #8001 Instructor: Shevlin

BIO 699/The Thesis/Creative Project in Science Education (Biological Science) 6 cr.

Prerequisite: Open only to matriculated students with a concentration in biological sciences.

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

Hours: TBA
Class #8003 Coordinator: Shevlin

Marine Sciences

Consortium at Seaville and Sandy Hook

The New Jersey Marine Sciences Consortium is a research-oriented organization of institutions of higher learning in New Jersey. It operates two field stations, one at Sandy Hook in Monmouth County and the other at Seaville in northern Cape May County. Selected courses in various fields of marine sciences are offered during the summer at both stations. Dormitory and kitchen facilities are available as well as fully equipped laboratories and field facilities. An illustrated brochure is available that describes the summer program completely.

The days and hours for the Consortium courses will be arranged. Please contact Dr. Albert Eble at (609) 771-2531 for registration information.

Communication & Theatre

CTH 697/Independent Study in Communication and Theatre 1-3 cr.

In-depth exploration of a topic within a specific area of the discipline involving supervised reading, research and regular conferences with the faculty advisor. Work may be coordinated with participation in performance activities when appropriate.

Hours: TBA
CTH 697A Class #3027 1 cr.
CTH 697B Class #3029 2 cr.
CTH 697C Class #3031 3 cr.
Coordinator: Heap

Computer Science

CSC 599/Independent Study in Computer Science 3 cr.

Prerequisite: by invitation only

Independent study in a selected area of computer science through the use of course books, journal articles, and computing experience, coordinated under the supervision of faculty advisors.

Hours: TBA
CSC 599A Class #3037 1 cr.
CSC 599B Class #3039 2 cr.
CSC 599C Class #3041 3 cr.
Coordinator: Boliver

English

Eng 521/Women in Literature 3 cr.

An examination of changing attitudes towards women as depicted in English from the 17th century to the present.

Class #8017
6/26-8/3 MTR 1030-1245
HH 372 Instructor: Brown
ENG 570/Studies in Literature: 3 cr.
Contemporary Literary Theory
The principle aim of Literary Theory is not to explain individual works of literature but to specify the system of literary signification—the “rules” and conventions that make literary communication possible. In this course we will examine several contemporary theories, including reader-response theory, deconstructionism, and semiotics.
Class # 8019
6/26-8/3 MTR 0800-1015
HH 372 Instructor: Beechhold

ENG 697/Independent Study in English
In-depth exploration of a topic within a specific area of the discipline involving supervised reading, research and regular conferences with the faculty advisor.
Hours: TBA
ENG 698A Class #3047 1 cr.
ENG 698B Class #3049 2 cr.
ENG 698C Class #3051 3 cr.
ENG 698D Class #3053 4 cr.
Coordinator: Liddle

ENG 699/Department Project in English
A critical independent study of an aspect of English of interest to the student that is explored under faculty guidance. Open only to students matriculated in the English program.
Hours: TBA
Class # 8021 Instructor: Liddle

ENG 699/Theesis/Creative Project 6 cr.
in English
An original research of creative study under the guidance of a thesis committee approved by the Graduate Committee. Open only to students matriculated in the English program.
Hours: TBA
Class # 8023 Instructor: Liddle

MAT 100/Refresher Mathematics 1 cr.
for Teachers
Review of the essential types and techniques of high school algebra and geometry.
- This Course Is Not Covered by the Guarantee.
Class #8029
6/12-6/23 MTR 1700-2130
NU 321 Instructor: Staff

MAT 510/Survey of Mathematics 3 cr.
Prerequisite: Admission to Program to Retrain Teachers in Mathematics.
A pre-calculus course which does not count toward the master's degree in mathematics. Introduction to analytic geometry, relations and functions, polynomial functions, simultaneous solution of linear equations.
- This Course Is Not Covered by the Guarantee.
Class # 8031
6/26-7/27 MTR 0830-1430
HH 123 Instructor: Staff

MAT 530/Foundations of Geometry 3 cr.
Postulation methods are discussed and emphasized to give the student a conception of the structures of several geometries. One of the purposes is to reexamine elementary geometry from an advanced point of view.
Class # 8033
6/26-7/27 MTR 0830-1430
HH 126 Instructor: Staff

MAT 696/Independent Study in Statistics 3 cr.
The student will study independently a selected area of statistics through the use of source books and articles reported in statistics journals.
Hours: TBA
Class #3071 Coordinator: Boliver

MAT 697/Independent Study in Mathematics 3 cr.
A critical independent study of an aspect of mathematics, computer science or statistics of interest to the student that is explored under faculty guidance. Open only to students matriculated in the mathematics and computer science graduate programs.
Hours: TBA
Class #3073 Coordinator: Boliver

Mathematics
MAT 100, MAT 510
Special Program: Mathematics Retraining
May not be elected. Permission of department is required.
Music

MUS 500/Introduction to Research 3 cr. in Music
A study of the nature of scholarly research in music, and of the methods and materials used to conduct such research. Development of research and writing skills will be emphasized. An independent research project is required.
Class #8039
6/26-7/27 MTR 1340-1620
BR 126 Instructor: Staff

MUS 570/Advanced Choral 2 cr.
Conducting I
Prerequisite: consent of instructor.
This course will examine multimeter, triplets and metric modulation. This course will also examine the relationship of music and text. Score preparation will also be involved. The independence of subdivision and gesture will be examined.
Class #8041
6/26-7/27 MTR 1645-1845
BR 126 Instructor: Mendoza

MUS 670/Advanced Instrumental 2 cr.
Conducting I
Prerequisite: consent of instructor.
An evaluation of previous conducting experiences and skills. Study of baton technique, score preparation, gestures, and left hand. Development of advanced uses of facial expression and body tensions.
Class #8043
6/26-7/27 MTR 1935-2215
BR 126 Instructor: Staff

MUS 697/Independent Study 1-3 cr.
(Open to M.A. and M.Ed. candidates)
In-depth study of a specific musical subject area selected after consultation between the student and the Coordinator of Graduate Music. Prerequisites to be determined for each enrolee by the Coordinator of Graduate Music and a faculty member possessing expertise and interest in the specific area of study.
Hours: TBA
MUS 697A Class #3079 1 cr.
MUS 697B Class #3081 2 cr.
MUS 697C Class #3083 3 cr.
Coordinator: Potter

MUS 698/Department Project in Music 6 cr.
Required of candidates who wish to present a recital, conducting performance, musical composition or innovative teaching as their final project, in addition to a research paper. The coordinator of graduate music appoints a committee to assist each candidate with the project.
Hours: TBA
Class #8047 Instructor: Potter

MUS 699/Thesis/Creative Project in Music Education
(Open to M.A. and M.Ed. candidates)
An original research or creative study under the guidance of a thesis committee.
Hours: TBA
Class #8045 Instructor: Potter

Physics

PHY 697/Independent Study in 1-3 cr.
Physics
In-depth exploration of a topic within a specific area of the discipline involving supervised reading, research and regular conferences with the faculty advisor. May be repeated for credit if topics differ.
Hours: TBA
PHY 697A Class #3089 1 cr.
PHY 697B Class #3091 2 cr.
PHY 697C Class #3093 3 cr.
Coordinator: Hack

PHY 698/Department Project in Science Education (Physical Science, General Science)
A critical independent study of an aspect of science education (physics) of interest to the student that is explored under faculty guidance. Open only to students matriculated in the science education program whose area of concentration is physics or general science. May be repeated for credit if topics differ.
Hours: TBA
Class #8053 Coordinator: Hack

PHY 699/Thesis/Creative Project in Science Education (Physical Science, General Science)
Prerequisite: permission of graduate advisor.
Original research in area of specialization. Open only to students matriculated in the science education program whose area of concentration is physical or general science.
Hours: TBA
Class #8055 Coordinator: Hack
### Psychology

**PSY 697/Independent Study** 1-3 cr. in Psychology  
**Prerequisites:** Permission of instructor and department.  
In-depth exploration of a topic within a specific area of the discipline involving supervised reading, research and regular conferences with the faculty advisor. A formal proposal, developed with the instructor’s supervision, must be submitted to the department and approved before the student may register for independent study.  
Hours: TBA  
PSY 697A **Class #3099** 1 cr.  
PSY 697B **Class #3101** 2 cr.  
PSY 697C **Class #3103** 3 cr.  
Coordinator: Phillips

### Sociology

**SOC 697/Independent Study in Sociology** 1-3 cr.  
In-depth exploration of a topic within a specific area of the discipline involving supervised reading research and regular conferences with the faculty advisor.  
Hours: TBA  
SOC 697A **Class #3109** 1 cr.  
SOC 697B **Class #3111** 2 cr.  
SOC 697C **Class #3113** 3 cr.  
Coordinator: Robboy
### Business Education/Office Systems Administration

**BUS 550/Principles of Vocational Education** 3 cr.
Survey of the basic history, philosophy and principles employed in the vocational and career education programs with emphasis on business and marketing education.

- This Course Is Not Covered by the Guarantee.

Class #8057
6/26-7/27 MTR 0800-1040
BL 128 Instructor: Shenker

**BUS 671/Trends and Issues in Business Education** 3 cr.
Prerequisite: BUS 560 and permission of program coordinator.

Examination of significant problems, issues, and trends in business and marketing education. Exploration of research and current thinking expressed in the professional literature.

- This Course Is Not Covered by the Guarantee.

Class #8059
6/26-7/27 MTR 1045-1325
BL 124 Instructor: Shunker

**BUS 697/Independent Study in Business** 3 cr.
Prerequisite: permission of program coordinator.

In-depth exploration of a topic within a specific area of the discipline involving supervised reading, research and regular conferences with the faculty advisor.

Class #3137
Coordinator: Everard

**BUS 698/Department Project in Business** 3 cr.
Prerequisite: permission of program coordinator.

A critical independent study of an aspect of office systems or business or marketing education of interest to the student that is explored under faculty guidance. Open only to students matriculated in the office systems and business education programs.

Hours: TBA
Class #8061 Instructor: Everard

**BUS 699/Theis/Creative Project in Business** 3 cr.
Prerequisite: permission of program coordinator.

An original research or creative study under the guidance of a thesis committee. Open only to students matriculated in the office systems and business education programs.

Hours: TBA
Class #8063 Instructor: Everard

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**Economics**

**ECO 550/Economics Education** 3 cr.

Workshop K-8
Prerequisite: permission of instructor.


- This Course Is Not Covered by the Guarantee.

Class #8071
7/5-7/20 MWR 0900-1500
BL 124 Instructor: Stout
50% WD-7/8; Final WD-7/12

**EFN 509/Foundations of Micro/Macro Economics** 3 cr.

Prerequisite: 6 s.h. of college mathematics

An intensive examination of both price determination in commodity and factor markets and income determination in the economy as a whole. Focuses on key concepts and principles.

- This Course Is Not Covered by the Guarantee.

Class #8069
6/26-7/27 MTR 1800-2040
BL 124 Instructor: Breslin

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Management

MSM 697/Independent Study in Management 3 cr.
Prerequisite: permission of program coordinator.
A critical independent study of an aspect of management of interest to the student, explored under faculty guidance.
Hours: TBA
Class #3131
Coordinator: Everard

MSM 699/Thesis/Creative Project in Management 3 cr.
Prerequisite: permission of program coordinator.
An original research or creative study under the guidance of a thesis committee approved by the Graduate Committee. Open only to matriculated graduate students with a concentration in management.
Hours: TBA
Class #8077
Coordinator: Everard
Counseling and Personnel Services*

CPS 501/Introduction to Counseling and Personnel Services 3 cr.
Study of the applied psychology of the helping relationship through active field experiences, human relations training and exploration of field opportunities.
Class #8083
6/26-7/27 MTR 1935-2215
FH 424 Instructor: Evangelisto

CPS 550/Alcoholism Counseling 3 cr.
Prerequisite: SPG 501.
Specific techniques for counseling the alcoholic and the problem drinker. Intervention strategies, as well as counseling and support systems for the family and significant others affected by the disease of alcoholism. Opportunities to practice counseling strategies at various points in treatment will be provided.
Class #8085
6/5-6/22 MTR 1700-2130
FH 424 Instructor: Fassbender

CPS 597/Advanced Topics: Clinical Prepracticum
3 cr.
This laboratory experience is designed to give the advanced student an introduction to Practicum Seminar CPS 690/691. Through carefully analyzed videotaped counseling simulations, current issues, presentations and discussions of special client populations, students will be given an opportunity to examine, evaluate and synthesize previous learning into a coordinated counseling approach.
Class #8089
6/26-7/27 MTR 1935-2215
FH 347 Instructor: Ramsey

Class #8091
6/26-7/27 MTR 1935-2215
FH 349 Instructor: Paddack

CPS 597/Advanced Topics: Crisis Intervention Counseling
3 cr.
This course will study crisis intervention theory, research and the nature and characteristics of both developmental and environmental crises.
Effective intervention skills and resources that counselors can employ to ameliorate these crises will be examined.
Class #8087
6/26-7/27 MTR 1935-2215
FH 319 Instructor: Staff

CPS 660/Organization and Administration of Counseling and Personnel Services 3 cr.
Study of principles and practices fundamental to the organization and administration of student personnel services in the school. A comprehensive view of the responsibilities involved in the effective functions of guidance services.
Class #8093
6/26-7/27 MTR 1645-1925
FH 424 Instructor: Evangelisto

CPS 697/Independent Study in Counseling and Personnel Services 1-3 cr.
In-depth exploration of a topic within a specific area of the discipline involving supervised reading, research and regular conferences with the faculty advisor.
Hours: TBA
CPS 697A Class #3157 1 cr.
CPS 697B Class #3159 2 cr.
CPS 697C Class #3161 3 cr.
Coordinator: Ramsey

CPS 698/Department Project in Counseling and Personnel Services 3 cr.
Provides opportunities for in-depth study in an area of interest to the student, and/or participation in an activity related to student personnel services.
Hours: TBA
Class #8095 Instructor: Ramsey

*All CPS courses must have signature of department chair.

Early Childhood Education

ECE 697/Independent Study in Early Childhood Education 1-3 cr.
In-depth exploration of a topic within a specific area of the discipline involving supervised reading, research and regular conferences with the faculty advisor.
Hours: TBA
ECE 697A Class #3167 1 cr.
ECE 697B Class #3169 2 cr.
ECE 697C Class #3171 3 cr.
Coordinator: Tharney
Educational Administration and Secondary Education

EDF 500/Foundations of Education 3 cr.
A synthesis of the contributions to education from the basic disciplines of history, philosophy, anthropology, religion, sociology, economics and political science. This course fulfills the requirements for multicultural education.
Class #8107
6/26-7/27 MTR 1045-1325
FH 205 Instructor: Staff

EDF 520/Social Problems in Education 3 cr.
Brief analysis of some modern social problems, such as crime, poverty, race conflict, and family disintegration and the role that education might assume in proposed solutions. This course fulfills the requirements for multicultural education.
Class #8109
6/26-7/27 MTR 0800-1040
FH 211 Instructor: Messina

EDF 697/Independent Study in Educational Foundations 1-3 cr.
In-depth exploration of a topic within a specific area of the discipline involving supervised reading, research and regular conferences with the faculty advisor.
Hours: TBA
EDF 697D Class #3189 1cr.
EDF 697E Class #3191 2cr.
EDF 697F Class #3193 3cr.

EDM 697/Independent Study in Educational Administration 1-3 cr.
In-depth exploration of a topic within a specific area of the discipline involving supervised reading, research and regular conferences with the faculty advisor.
Hours: TBA
EDM 697A Class # 1cr.
EDM 697B Class # 2cr.
EDM 697C Class # 3cr.
Coordinator: Farber

SEC 491/Seminar in Supervised Teaching: Secondary and Special Fields—Observation and Participation
Part I: A series of pre-session orientation meetings held in late Spring.
Part II: A summer session consisting of daily lectures, class discussions, conferences, observation and limited participation in demonstration classes. Topics include aims and objectives of present-day educational programs, lesson and unit planning, the public school curriculum, classroom management, measurement and evaluation of student progress. Open to graduate students enrolled in MAT programs.
Class #5289
6/12-7/19 MTWRF 0830-1300
FH 159/201 Instructor: Farber
50% WD-6/22; Final WD-6/29

SEC 514/Curriculum Theory and Practice 3 cr.
The contemporary school curriculum from the primary through the secondary levels, including social and educational foundations, basic factors in design, and common organizational patterns. This course is required and accepted by the New Jersey State Department of Education toward administrative and supervisory certificates.
Class #8101
6/26-7/27 MTR 0800-1040
FH 349 Instructor: Staff

SEC 520/Staff Supervision 3 cr.
A study of the objectives, techniques and materials of staff supervision. Examination of the supervisory function toward improvement of instruction. The nature of contemporary supervision, interpersonal relations, and the supervisor as an agent of change. This course is required and accepted by the New Jersey State Department of Education toward administrative and supervisory certificates.
Class #8103
6/26-7/27 MTR 1025-1325
FH 211 Instructor: Staff

SEC 525/Introduction to Educational Administration 3 cr.
A comprehensive overview of the field of educational administration. An examination of the objectives, techniques and materials of educational administration to assist the prospective school administrator in administrative leadership. This course is accepted by the New Jersey State Department of Education toward principal and school administrator certificates.
Class #8105
6/26-7/27 MTR 1045-1325
FH 222 Instructor: Staff
Elementary Education

ELM 533/Teaching Natural/Social 3 cr.
Science in Elementary Schools
Examines the purposes, scope, sequences, materials, and methodology of teaching science and social studies in elementary schools. Develops ways and means of planning, instructing and evaluating subject matter, abilities and skills.
Class # 8115
6/26-7/27 MTR 0800-1040
FH 347 Instructor: Silver

ELM 697/Independent Study in 3 cr.
Elementary Education
An in-depth study of a topic within the discipline of elementary education involving supervised reading, research and regular conferences with the faculty advisor. Open only to students matriculated in the elementary education programs.
Hours: TBA
Class # 3205
Coordinator: Tharney

ELM 698/Department Project in 3 cr.
Education
A critical independent study of an aspect of education of interest to the student that is explored under faculty guidance. Open only to students matriculated in the elementary education programs.
Hours: TBA
Class # 8119
Instructor: Tharney

ELM 699/Thesis/Creative Project 6 cr.
in Education
An original research or creative study under the guidance of a thesis committee approved by the Graduate Committee. Open only to students matriculated in the elementary education programs.
Hours: TBA
Class # 8121
Instructor: Tharney

Health Education

See also: Physical Education; Safety

HED 500/Workshop in Health 3 cr.
Education: AIDS
In-depth study of AIDS from the basics (transmission, prevention, education, to coping (psychosocial issues), to helping (volunteerism, health/social services), to caring (critical issues, research).

- This Course Is Not Covered by the Guarantee.

Class # 8137
6/1-6/22 MTWRF 1800-2100
PA 245 Instructor: Cochrane/Gorcynski
50% WD-6/8; Final WD-6/12

HED 551/Alcohol and Narcotics 3 cr.
Education
Drug dependencies and their effect on the individual, school and society. The use, misuse and abuse of a variety of mood-modifying substances is studied with particular emphasis on alcohol and other drugs of abuse. Implications for drug education in public schools are included.

Class # 8139
6/26-7/27 MTWR 1645-1925
PA 249 Instructor: Herzstein

HED 555/Seminar on Aging, Death and Dying 3 cr.
An exploration of all aspects of aging and death in contemporary America. Examination of roles of various professionals and current research trends. Formulation of realistic plans for living through education about death will be a primary area of focus.

Class # 8141
6/26-7/27 MTWR 1045-1325
PA 249 Instructor: Herzstein
Health Education, Physical Education, Recreation and Safety

HPE 697/Independent Study in Health, Physical Education, Recreation and Safety
1-3 cr.
Exploration of a topic within a specific area of the discipline involving supervised reading, research and regular conferences with the faculty advisor.

HPE 697A Class #3209 1 cr.
HPE 697B Class #3211 2 cr.
HPE 697C Class #3213 3 cr.
Coordinator: Medve

HPE 698/Department Project in Health, Physical Education, Recreation and Safety
3 cr.
An in-depth study of an aspect of health, physical education, recreation and/or safety of interest to the student that is explored under faculty guidance. Open only to students matriculated in the health and physical education program.

Hours: TBA
Class #8147 Instructor: Medve

HPE 699/Theesis in Health, Physical Education, Recreation and Safety
3 cr.
Extensive research under the guidance of a thesis committee approved by the Graduate Committee. Open only to students matriculated in the health and physical education program.

Hours: TBA
Class #8149 Instructor: Medve

Reading

RDG 570/Corrective Techniques in Reading 3 cr.
Prerequisites: an undergraduate or graduate course in the methods of teaching reading.
Deals with the basic principles for a corrective reading program, methods of preventing reading difficulties, and methods and materials used in dealing with corrective problems; causes of poor reading and deficiencies in specific skills. This course will not be accepted for credit in the developmental reading program.

Class #8127 6/26-7/27 MTR 1045-1325 Instructor: Hornberger

RDG 697/Independent Study in Reading 1-3 cr.
Prerequisites: EDF 508 and graduate coordinator's approval.
An in-depth study of a topic within the discipline of developmental reading involving supervised reading, research and regular conferences with the faculty advisor. Open only to students matriculated in the developmental reading program.

Hours: TBA
RDG 697A Class #3219 1 cr.
RDG 697B Class #3221 2 cr.
RDG 697C Class #3223 3 cr.
Coordinator: Hornberger

RDG 698/Department Project in Reading 3 cr.
A critical independent study of an aspect of reading of interest to the student that is explored under faculty guidance. Open only to students matriculated in the graduate Developmental Reading program.

Hours: TBA
Class #8129 Instructor: Burke

RDG 699/Theesis/Creative Project in Reading 6 cr.
An original research or creative study under the guidance of a thesis committee approved by the Graduate Committee. Open only to students matriculated in the Developmental Reading program.

Hours: TBA
Class #8131 Instructor: Burke

Physical Education

PED 541/Advanced Theory and Techniques in Golf 2 cr.
Investigation and application of recent information on theory, techniques, teaching and administrative procedures as they relate to golf.
Class #8157 6/12-6/23 MTWR 1530-1830
PA 243 Instructor: Oshel
Special Education

SED 491/Seminar in Supervised Teaching: Observation and Participation 6 cr.
Prequisites: developmental permission.
Part I: A series of pre-session orientation meetings held during the last part of the spring semester.
Part II: A summer session consisting of conferences, observations and limited participation in special education settings. Topics include development of I.S.P., I.E.P., unit planning, lesson planning, classroom management, measurement and evaluation, issues and trends in special education. Open only to students enrolled in the M.A.T. program.
Class #5329
6/26-7/27 MTWRF Hours: TBA
Instructor: McRae

SED 501/Learning and Behavior Problems of Handicapped Children 3 cr.
Prequisite: child psychology
An introduction to the field of special education, focusing on the characteristics and educational needs of handicapped students. Following a categorical approach, the course covers etiology and behavioral manifestations of a wide variety of handicapping conditions and introduces current approaches to the education of students with these disabilities. Included is up-to-date information on federal/state laws which affect services for the handicapped. (Note: This course is a prerequisite for all 500- and 600-level courses except for students in Track I)
Class #8171
6/26-7/27 MTR 1045-1325
FH 349 Instructor: Cohen

SED 650/Externship in Learning Disabilities Teacher Consultation 6 cr.
A period of full-time teacher consultation in a public school as a part of a child study team under the supervision of an approved learning disabilities teacher/consultant and a faculty member of the college. Minimum clock hours (at 30 hours per week) for this course are 450. A student may enroll in this course while he is employed as a provisionally certified learning disabilities teacher/consultant if he is able to be supervised by an approved and fully certified learning disabilities teacher/consultant and is in a location making faculty supervision practical (i.e., 25 mile radius of Trenton). This course is taken after completion of all the practica and each concurrent course.
Class #8173
6/26-7/27 MTWRF Hours: TBA Instructor: Weisberg

SED 693/Practicum/Seminar Preschool Handicapped Children 6 cr.
Prerequisites: completion of the 24 s.h. of courses or approved alternates in the program for preschool handicapped and permission of the advisor.
Provides for observation and supervised experience in the planning, organizing and managing of classes. There are opportunities to provide parent counseling/training and related services for the preschool handicapped. A minimum of 300 clock hours is required.
Class #8175
6/26-7/27 MTWRF Hours: TBA Instructor: Weisberg

SED 696/Practicum—Observation and Participation 6 cr.
Prerequisites: SED 501, 514, 605, 625, 643
An observation and participation program for Track II and post master's 24 s.h. approved certification graduate students. Enables students to observe and participate in programs and teaching strategies relating to special education curricula in a number of settings, examine techniques of evaluation and management outcomes, and explore re-
sources and facilities available to meet special education needs. A fee may be required.
Class #8177 Hours: TBA
Instructor: McRae

SED 697/Independent Study 1-3 cr. in Special Education
Prerequisite: Permission of advisor.
Independent exploration of 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. May be repeated for an additional semester with permission of advisor. Students are expected to purchase any necessary testing and/or curriculum materials needed for the proper completion of the course. Open only to advanced students matriculated in the special education program.

SED 699/Thesis in Special Education 6 cr.
An original research or creative study under the guidance of a thesis committee approved by the Graduate Committee. Students are expected to purchase any necessary testing and/or curriculum materials needed for the proper completion of the course. Open only to students matriculated in the special education program.

Speech Pathology & Audiology

SPP 542/Alternative Communication Systems 3 cr.
Prerequisites: undergraduate degree in speech pathology or equivalent or permission of the instructor and a course in childhood or adult language disorders.
An intensive study of feeding techniques, alternative symbol systems, gestural assisted nonelectronic and electronic devices and their application to the rehabilitation of communication handicapped individuals.
Class #8185
6/26-7/27 MTR 1045-1325
FH 155 Instructor: Jenson

SPP 580/Speech, Hearing and Language Problems of the Aged 3 cr.
A study of common communication disorders of the aged, including the diagnostic procedures and rehabilitative measures for these health problems.
Class #8187
6/26-7/27 MTR 1340-1620
FH 155 Instructor: Staff

SPP 590A/Clinical Practice (Audiology) 3 cr.
Prerequisite: Completion of two required courses in the area of specialization.
The course includes observation, analysis and guided experience in the evaluation and remediation of speech, hearing and language disabilities as well as procedures for organizing and maintaining programs of therapy for these disorders in school and clinical settings. Special fee of $60 is required.
Class #8189
FH 175 Hours: TBA
Instructor: Staff

SPP 590B/Clinical Practice (Speech Pathology) 3 cr.
Prerequisite: Completion of two required courses in the area of specialization.
The course includes observation, analysis and guided experience in the evaluation and remediation of speech, hearing and language disabilities as well as procedures for organizing and maintaining programs of therapy for these disorders in school and clinical settings. Special fee of $60 is required.
Class #8191
FH 142 Hours: TBA
Instructor: Hornyak
SPP 697/Independent Investigation
Prerequisite: An undergraduate degree in speech pathology 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. Open only to students matriculated in the speech correction or speech pathology program.
Hours: TBA
SPP 697A Class #3239 1 cr.
SPP 697B Class #3241 2 cr.
SPP 697C Class #3243 3 cr.
Coordinator: Jenson

SPP 698/Department Project in Speech
A critical independent study of an aspect of speech of interest to the student that is explored under faculty guidance. Open only to students matriculated in the speech correction or speech pathology program.
Class #8193
Hours: TBA
6/26-7/27
FH 168 Instructor: Jenson

SPP 699/Thesis/Creative Project in Speech
An original research or creative study under the guidance of a thesis committee approved by the Graduate Committee. Open only to students matriculated in the speech correction or speech pathology programs.
Hours: TBA
Class #8195
6/26-7/27
FH 168 Instructor: Jenson
TRENTON STATE COLLEGE
IN
MALLORCA AND CYPRUS
SUMMER SESSIONS
Session 1—June 26-July 21, 1989
Session 2—June 24-August 4, 1989

- Master's in International and Overseas Administration and Supervision
- Certification in Teaching English as a Second Language
- Certification as supervisor, principal, and Superintendent

Courses are offered at the American International School, Mallorca and the American Academy, Larnaca, Cyprus. Students may enroll for three, six, or nine semester hours.

Additional Information
Dr. Leon Durkin, Coordinator
I.O.T.A., F.H. 367
Trenton State College
Hillwood Lakes CN 4700
Trenton, NJ 08650-4700
Telephone: (609) 771-2326
Telex (AC:23, TLX:7407347)
FAX 609 771-2836
SCHOOL OF TECHNOLOGY

TED 581/Industrial Education 3 cr. Workshop
Advanced course dealing with topics in industrial education.

Topic: Computer Aided Drafting
Class #8201 6/26-7/13 MTWR 1700-2040
AR 6 Instructor: Hess
50% WD-6/29; Final WD-7/5

TED 581/Industrial Education 1, 2 cr. Workshop
Advanced course dealing with topics in industrial education.

Topic: New Technological Applications
Class #8203 1cr
Hours: TBA
AR 73 Instructor: Alexander

Class #8205 2cr
Hours: TBA Instructor: Alexander

TED 697/Independent Study in 1-3 cr. Industrial Education
In-depth exploration of a topic within a specific area of the discipline involving supervised reading, research and regular conferences with the faculty advisor.
Hours: TBA
IED 697A Class #3255 1cr.
IED 697B Class #3257 2cr.
IED 697C Class #3259 3cr.

IED 597/Advanced Topics in 2 cr. Industrial Education
Topic: Aerospace Technology
Prerequisite: Registration is through Dr. Robert Weber only.

The Department of Technology Education, in cooperation with NASA and the Center for Technology Education at Trenton State College, will offer this special aerospace education workshop. Topics include air and space transportation vehicles, the technology needed for living in space, computer software programs, and appropriate aerospace activities for use in the middle and junior high school curriculum.

Because of limited enrollment, participants will be selected on a competitive basis to attend this workshop which offers two graduate credits. Tuition is free, however, a fee of $88.00 will be assessed to cover course costs and supplies.

7/17 - 7/27 MTWR 0900-1500

For information or application, write to:
Trenton State College
Center for Technology Education, AR21
Hillwood Lakes CN 4700
Trenton, NJ 08650-4700
Attention: NASA Workshop
Telephone: (609) 771-2784

This Course is Not Covered by the Guarantee
AUDITING

Students who wish to attend courses without receiving credit must:

1. Register and pay the normal tuition fees.
2. Obtain permission of the Registrar before the first session of the course.

A student with audit status will receive a grade report indicating the title of the course; the entry will be marked Audit-No Credit. This information will become a part of the student's permanent record.

The instructor will be informed of students with auditor status in class. It is the prerogative of the instructor to determine the degree of class participation that an auditor may be permitted in any particular class.

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.

CREDIT LOAD

Normally graduate students are limited to six semester hours of summer study and undergraduate students are limited to nine semester hours of summer study.

Any exception to these requirements may be made only upon approval by a departmental advisor or the Director of Summer Session.
The table below lists the buildings and their corresponding times for each course section, according to the 24-hour clock, as follows:

<table>
<thead>
<tr>
<th>Building</th>
<th>Code</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armstrong Hall</td>
<td>AR</td>
<td>2</td>
</tr>
<tr>
<td>Bliss Hall</td>
<td>BL</td>
<td>4</td>
</tr>
<tr>
<td>Bray Hall</td>
<td>BR</td>
<td>5</td>
</tr>
<tr>
<td>Crowell Hall</td>
<td>CH</td>
<td>34</td>
</tr>
<tr>
<td>Forcina Hall</td>
<td>FH</td>
<td>43</td>
</tr>
<tr>
<td>Green Hall</td>
<td>GR</td>
<td>16</td>
</tr>
<tr>
<td>Holman Hall</td>
<td>HH</td>
<td>20</td>
</tr>
<tr>
<td>Kendall Hall</td>
<td>KE</td>
<td>21</td>
</tr>
<tr>
<td>Library</td>
<td>WL</td>
<td>36</td>
</tr>
<tr>
<td>Nursing Building</td>
<td>NU</td>
<td>37</td>
</tr>
<tr>
<td>Packer Hall</td>
<td>PA</td>
<td>28</td>
</tr>
</tbody>
</table>

Beginning and ending times are stated fully for each course section in this schedule, according to the 24-hour clock, as follows:

- 0800 = 8 a.m. 
- 0900 = 9 a.m. 
- 1000 = 10 a.m. 
- 1100 = 11 a.m. 
- 1200 = 12 NOON 
- 1300 = 1 p.m. 
- 1400 = 2 p.m. 
- 1500 = 3 p.m. 
- 1600 = 4 p.m. 
- 1700 = 5 p.m. 
- 1800 = 6 p.m. 
- 1900 = 7 p.m. 
- 2000 = 8 p.m. 
- 2100 = 9 p.m. 
- 2200 = 10 p.m. 

M = Monday 
T = Tuesday 
W = Wednesday 
R = Thursday 
F = Friday 
S = Saturday 
TBA = To Be Arranged
ROUTES TO THE CAMPUS

Railroad
Trenton is on the main service line of AMTRAK. The railroad station is in the city, five miles from the campus. The NJ Transit-Mercer "G-Trenton State College" bus goes from the station directly to the campus.

Plane
The Mercer County Airport is located within two miles of the campus. It serves airlines offering daily flights between Trenton and Washington, D.C., Philadelphia and Chicago. Taxi service is available at the airport.

Automobile
The college is most easily reached by automobile. Trailblazers at key intersections near the college will help with directions.

From Newark and North Jersey:
Persons coming from North Jersey using the New Jersey Turnpike should exit at New Brunswick (Exit 9). Take Route 18N to Route 1; then follow Route 1 South. Leave Route 1 at I-295 to 95 and travel south (toward Pennsylvania). *Take Exit 4, Pennington Road South. Continue on Pennington Road (Route 31) south through the traffic light (at Ewingville Road intersection) to the college. The college is on the left about .4 miles from the light.

From Pennsylvania:
Follow I-95 North and cross the Scudder Falls Bridge to Route 31 (Pennington Road) Exit 4A. Follow from * above.

From Asbury Park-Freehold area:
Take Route 33 West to Hightstown. Continue to light at Stockton St. (Route 571W). Turn right (toward Princeton) and proceed to Penns Neck. Turn left onto Route 1 South; leave Route 1 at I-295 to 95 travel south (toward Pennsylvania). Follow from * above.

From Northwest New Jersey:
Follow Route 202 until it intersects Route 31 at Flemington. Continue along Route 31 (Pennington Road) until you reach the college. This is about .4 mile past the traffic light at Ewingville.

From South Jersey:
Heading north on Route 206, take I-295 North (toward Princeton/Pennsylvania). Follow from * above.