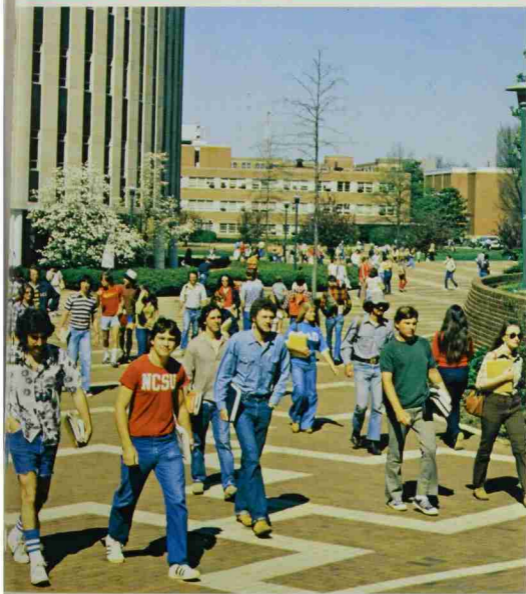


North
Carolina State
University Bulletin

February, 1978



summer session 1978

NORTH CAROLINA STATE UNIVERSITY

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Martha G. Daughtry, University Catalog Editor; Joseph S. Hancock, Assistant Director, Publications; Hardy D. Berry, Director, Information Services. Printed by North Carolina State University Graphics.

This catalog is intended for informational purposes only. Requirements, rules, procedures, courses and informational statements set forth herein are subject to change. Notice of changes will be conveyed to duly enrolled students and other appropriate persons at the time such changes are effected.



NORTH CAROLINA STATE UNIVERSITY

Date Signature

Office Use

INFORMATION RELATING TO CLAIMED NORTH CAROLINA RESIDENCE FOR TUITION PURPOSES

North Carolina law (G.S. 116-143.1) requires that "To qualify for in-state tuition a legal resident must have maintained his domicile in North Carolina for at least the 12 months immediately prior to his classification as a resident for tuition purposes." The information requested on this form must be supplied by every applicant for admission or readmission to North Carolina State University who claims to be eligible for the N. C. tuition rate. Complete the form and return it with your application for admission. This information is to be used only in connection with determination of your residence status for tuition purposes.

ANSWER ALL QUESTIONS. PRINT OR TYPE YOUR RESPONSES.

- 1. Full Name Last First Middle Social Security Number
2. Have you applied to be classified as a resident for tuition purposes at North Carolina State University during the last 12 months.
3. Age Date of Birth Place of Birth Citizenship
4. If citizenship other than U. S. indicate visa status When obtained?
5. Current mailing address Number Street City State Zip Code Since
6. If you are married: Spouse's name Date of Marriage
7. Father living? Yes No His Name
8. Mother living? Yes No Her Name
9. If your parents are divorced, in whose custody are/were you?
10. Name of court-appointed guardian (if applicable)
11. Have you, your spouse, or either of your parents been in active military service within the past two years?
12. Check each of the following you have ever done outside North Carolina:
Attended secondary school Dates Attended post-secondary school Dates Worked Dates

13. PERMANENT HOME ADDRESS Since (Date)

Yours
Spouse
Father
Mother
Guardian

14. LAST ADDRESS OUTSIDE NORTH CAROLINA From (Date) Until (Date)

Yours
Spouse
Father
Mother
Guardian

15. OCCUPATION EMPLOYER AND ADDRESS Since (Date) Hours per week

Yours
Spouse
Father
Mother
Guardian

IF ADDITIONAL INFORMATION IS NEEDED, THE APPLICANT WILL BE NOTIFIED

I certify that these responses are true to the best of my knowledge, pursuant to reasonable inquiry where needed, and I am aware that any knowing falsification hereon may result in disciplinary action including denial of admission or dismissal after admission.

Signature of applicant

Date

Signature of parent or guardian (if applicant under 18 years of age)

Date

(If you feel further explanation is needed, attach a letter.)

**NORTH CAROLINA STATE UNIVERSITY
SUMMER SESSIONS REGISTRATION APPLICATION FOR SPECIAL STUDENTS**

This form not to be used by classified degree candidates already admitted to the University

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NOTE: Your Social Security Number is required solely to identify your student records within our information system. It serves to insure that the University will maintain data about you, i.e., name, address, grades, etc., in an accurate manner.

A. MUST BE COMPLETED BY ALL APPLICANTS:

1. _____

Last Name
First Name
Middle (Maiden name for married person)
2. Current Mailing Address _____ Home Phone _____

House, Box, or Route Number and Street Name
Home Phone

City
State
Zip Code
County

Bus. Phone
3. Ever attended N. C. State U.? Yes _____ No _____ Last Date _____ Last Classification _____ Curriculum _____
4. Ever taken an N. C. State U. extension course? Yes _____ No _____ Date of last course _____
5. Course(s) you wish to take:

FIRST SUMMER SESSION				SECOND SUMMER SESSION			
Dept. Abbrev. & Course No.	Credit Hours	C. N.	Title	Dept. Abbrev. & Course No.	Credit Hours	C. N.	Title

B. MUST BE COMPLETED BY THOSE APPLICANTS WHO WERE NOT ENROLLED IN THE SPRING SEMESTER:

1. Resident of N. C.? Yes _____ (If yes, you must complete the Residency Questionnaire) No _____ (If no, what state?) _____
2. Sex: Male _____ Female _____ Married: Yes _____ No _____
3. Place of Birth _____ Date of Birth _____ Citizenship _____
4. High School Diploma? Yes _____ No _____ 5. Degree(s) Received _____ Where? _____
6. Have you made application to N. C. State U. as a degree student? Yes _____ No _____ If yes, graduate _____ undergraduate _____
7. If applicable, please check if you are on study release _____ work release _____ parole _____ serving an active sentence _____
8. **APPLICANT'S ETHNIC GROUP:** Ethnic identification is required by the Office of Civil Rights of the Department of Health, Education and Welfare to assure compliance with the Civil Rights Act. Ethnic origin is not a factor in admission: All applications are considered without reference to sex, creed or race.

White (not of Hispanic Origin) American Indian or Alaskan Native Black (Not of Hispanic Origin) Asian or Pacific Islander Hispanic

See back of this form for definitions of Ethnic Groups.

I certify that the above information is complete and correct.

Signature _____

Date _____

Ethnic 83	DOB (YYM) 85-87	CD 88-89	Status 80	S-M 81	School 82-83	Class 84-85	Curr. 86-88	Res. 89-91	Sem. 92	Year 93-94	Action 96
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**MAIL THIS FORM AND THE RESIDENCY
FORM (IF APPLICABLE) TO:**

Director of Summer Sessions
North Carolina State University
Box 5125
Raleigh, N. C. 27650

DEFINITIONS OF ETHNIC GROUPS

White (not of Hispanic origin). Persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.

American Indian or Alaskan Native. Persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

Black (not of Hispanic origin). Persons having origins in any of the black racial groups.

Asian or Pacific Islander. Persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. This includes for example, China, Japan, Korea, the Philippine Islands, American Samoa.

Hispanic. Persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.



SUMMER SESSIONS 1978

**North Carolina State University
Raleigh, North Carolina**

NORTH CAROLINA STATE UNIVERSITY

SUMMER SESSIONS 1978 REGISTRATION APPLICATION INFORMATION

Only special students are eligible to use the enclosed summer sessions registration application.

The registration application form *must* be used by all visiting students from other colleges or universities who will be classified as *special students* and by all students who are currently classified as *special students* at North Carolina State University.

A *special student* is one who has not been formally admitted as a degree candidate to North Carolina State University and does not wish regular classification of any kind at the University. See page 9, Special Students, for additional information.

NOTE: All special students (including those from other universities and colleges) are advised that NCSU degree students are always given priority for Summer Session classes. *Acceptance of the Registration Application for special students by the Summer Sessions Office in no way constitutes a guarantee that class space will be available.*

STUDENTS NOT ELIGIBLE TO USE THE ENCLOSED SUMMER SESSIONS REGISTRATION APPLICATION

1. The registration application form is *not* to be used by any classified degree candidate, undergraduate or graduate, now attending North Carolina State University. Such students must preregister through their advisers (see page 11).
2. The registration application form is *not* to be used by any student who has previously enrolled as a degree candidate at North Carolina State University. Such students (former students returning) must apply for readmission to the University by writing to the Department of Registration and Records, P. O. Box 5745, North Carolina State University, Raleigh, North Carolina 27650 (see page 11).

INFORMATION

For additional information about the Summer Sessions write to:

The Director of Summer Sessions
North Carolina State University
Box 5125
Raleigh, N. C. 27650

or call 737-2265.

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NORTH CAROLINA STATE UNIVERSITY

ADMINISTRATION

Joab L. Thomas, *Chancellor*
Nash N. Winstead, *Provost and Vice Chancellor*
Vivian T. Stannett, *Vice Provost and Dean of the Graduate School*
William L. Turner, *Vice Chancellor for Extension and Public Service*
Earl G. Droessler, *Vice Provost and Dean for Research*
Jackson A. Rigney, *Dean for International Programs*
Banks C. Talley, *Vice Chancellor for Student Affairs*
George L. Worsley, *Vice Chancellor for Finance and Business*
Rudolph Pate, *Vice Chancellor for Foundations and Development*

DEANS OF THE SCHOOLS

James E. Legates, *School of Agriculture and Life Sciences*
Claude E. McKinney, *School of Design*
Carl J. Dolce, *School of Education*
Ralph E. Fadum, *School of Engineering*
Eric L. Ellwood, *School of Forest Resources*
Robert O. Tilman, *School of Humanities and Social Sciences*
Arthur C. Menius, Jr., *School of Physical and Mathematical Sciences*
David W. Chaney, *School of Textiles*

SUMMER SESSIONS

William L. Turner, *Vice Chancellor for Extension and Public Service*
Charles F. Kolb, *Director*

ADMISSIONS

Anna P. Keller, *Director*

REGISTRATION

James H. Bundy, *University Registrar*

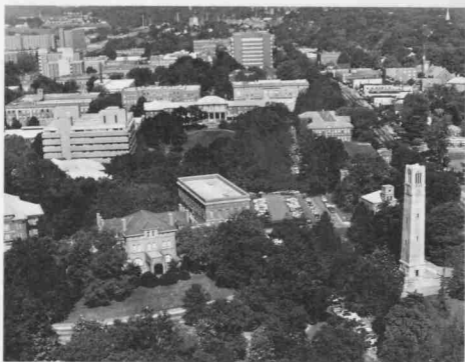
SUMMER SESSIONS CALENDAR 1978

FIRST SESSION

April 28	Friday	Last day to preregister for first session. Registration Day—8:30 a.m. to 12 noon; preregistration will automatically be cancelled for those who do not complete registration by 12 noon; late registration fee for those who com- plete registration after 12 noon, May 23.
May 23	Tuesday	
May 24	Wednesday	First day of classes.
May 29	Monday	Last day to register—last day to withdraw or drop a course with refund.
June 2	Friday	Last day to withdraw or drop a course at the 400 level or below.
June 9	Friday	Last day to withdraw or drop a course at the 500 or 600 level.
June 27	Tuesday	Last day of classes.
June 28	Wednesday	Final examinations

SECOND SESSION

June 9	Friday	Last day to preregister for second session. Registration Day 8:30 a.m. to 12 noon; preregistration will automatically be cancelled for those who do not complete registration by 12 noon; late registration fee for those who com- plete registration after 12 noon, July 5.
July 5	Wednesday	
July 6	Thursday	First day of classes.
July 11	Tuesday	Last day to register last day to withdraw or drop a course with refund.
July 17	Monday	Last day to withdraw or drop a course at the 400 level or below.
July 24	Monday	Last day to withdraw or drop a course at the 500 or 600 level.
August 9	Wednesday	Last day of classes.
August 10	Thursday	Final examinations.



A view of the N. C. State University campus looking west from the Memorial Tower.

NORTH CAROLINA STATE UNIVERSITY

North Carolina State University is one of the nation's major public universities—large, complex, national and international in scope, and a leader in scientific research.

It ranks among the top universities in the nation, and shares the distinctive character of Land-Grant state universities nationally—broad academic offerings, extensive public service, national and international activities, and large-scale extension and research programs.

Academic excellence is well represented in about 90 bachelors of arts and science programs, 71 master's degree fields and 45 doctoral degrees.

Research activities span a broad spectrum of about 700 scientific, technological and scholarly endeavors, with a budget of approximately \$20 million annually.

Extension work on a statewide basis in each of the 100 counties underscores the idea that the University's campus extends to the state's boundaries. Diverse extension programs include urban affairs, marine sciences, environmental protection, engineering, industrial, business, textiles, agricultural and many others.

The annual University budget is more than \$100 million. The University has 4,100 plus employees. There are 1,771 faculty and professional staff and 208 adjunct and federal agency faculty, including 1,176 graduate faculty.

There are 120 campus buildings with an estimated value of about \$150 million.

The central campus is 596 acres, though the University has 88,000 acres on a statewide basis, including one research and endowment forest of 78,000 acres. Near the main campus are research farms, biology and ecology sites, genetics, horticulture, and floriculture nurseries, forests, and areas such as Carter Stadium which comprise about 2,500 acres.

The University's Wolfpack athletic teams are well-known nationally. The basketball team was national champion in 1974. The football team has been the Atlantic Coast Conference Champion four times and co-champion twice and has won three bowl games in the last decade. The Wolfpack is now fielding women's intercollegiate athletic teams.

North Carolina State University is one of the three Research Triangle Universities along with Duke University and the University of North Carolina at Chapel Hill. In the 30 mile triangle formed by the three universities is the 5,000-acre Research Triangle Park; the Research Triangle Institute, a subsidiary of the Universities; and the Triangle Universities Computation Center, a central facility for the extensive computing centers of the institutions.

N. C. State's enrollment is about 17,700. There are 13,725 undergraduates, and 3,825 graduate students. Students at State come from 50 states and some 75 other countries. The international enrollment is a distinctive feature of the institution since its 718 international students give it a decidedly cosmopolitan aura.

State is one of 118 members of the National Association of State Universities and Land-Grant Colleges. Even though these institutions constitute less than 5 percent of the 2,500 colleges and universities in the nation, they are truly the nation's major institutions. They enroll about 30 percent of all U.S. college students-2.9 million out of 9.7 million, and award 38 percent of all degrees awarded in the United States, including 64 percent of all doctoral degrees.

Chancellor Thomas has described NCSU as a "magnet of progress," noting that its faculty have been attracted from more than 150 of the top universities of the nation and the world. Some 30 nations are represented. A recent study showed that the Research Triangle area has more Ph.D.'s proportionate to population than any area of the nation. The Triangle universities State, Duke and UNC-Chapel Hill, plus the Research Triangle Park, constitute a notable concentration of knowledge.

NCSU is dedicated to advancing knowledge, providing superior education and serving the people. It looks to the future with optimism and confidence.

THE SUMMER SESSIONS

The Summer Sessions at North Carolina State University offer an extensive educational program planned to meet the varied needs and interests of almost 8,700 students. Fifty departments offer instruction in more than 650 courses, over two-fifths of which are at the graduate level.

Each of State's eight schools, with a combined faculty of more than 300, participates in the two regular five-week sessions. In addition, the School of Design offers a six-week practicum, the School of Forest Resources conducts a summer camp and two five-week practicums and the School of Agriculture and Life Sciences offers a three-week practicum, and a three-week program for extension workers and other adult educators. Special programs and institutes are also offered during the summer.

Summer courses and special programs are designed for the new student, the undergraduate wanting to advance his or her academic standing at State, the graduate desiring to continue study and research during the summer months and for visiting students pursuing degrees at other institutions. Teachers who need to earn credit toward renewal of teaching certificates or advanced degrees in education and persons in professional fields who wish to keep abreast of new developments and trends also take advantage of State's summer programs.

ADMISSIONS

All students regardless of race or sex are equally welcome at North Carolina State University. Anyone may apply for and accept admission confident that the policy and practices of the University will be administered without discrimination.

Students are admitted to the summer sessions in one of seven categories: 1) new freshmen, 2) new undergraduate transfer students, 3) new graduate students, 4) special students, 5) continuing North Carolina State University students, 6) former North Carolina State University students, 7) suspended North Carolina State University students.

NEW FRESHMEN

Application forms for new freshmen should be obtained from the Director of Admissions, Peele Hall, P. O. Box 5126, NCSU, Raleigh, North Carolina 27650. The Summer Sessions application form in this catalog should *not* be completed. Applications should be submitted in the fall of the senior year in high school and will be accepted until the class is filled. Based on past experience, applications and credentials received in the fall and early winter have received full consideration while those applications received later may be subject to a waiting list.

A freshman applicant should be a graduate of an accredited secondary school. Non-graduates should have a high school equivalency certificate. The following High school preparation, or its equivalent, is necessary: English, 4 units; history or social studies, 2 units; mathematics, 2 units in algebra, 1 unit in geometry, and 1 unit in advanced math is strongly recommended for the Schools of Engineering, Physical and Mathematical Sciences, and Forest Resources; science, 2 units, preferably biology, chemistry, or physics; foreign language, 2 units recommended but not required, for the School of Humanities and Social Sciences only.

Freshman applicants must take the Scholastic Aptitude Test of the College Entrance Examination Board. These scores, together with the high school record, will be considered in determining admissibility. Information as to the time and place at which the Scholastic Aptitude Test will be given may be obtained from high school guidance counselors, or by writing directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540 for the *Bulletin of Information*. The *Bulletin* includes an application form and is available without charge.

Although the Achievement Test scores are not used in the admissions decision, the English

and Math Level I Tests are recommended for proper course placement. Additional information concerning these tests may be obtained by contacting the Undergraduate Admissions Office (919-737-2434).

NEW TRANSFER STUDENTS

In addition to submitting an application form which may be obtained from the Director of Admissions, Peele Hall, before May 1, all transfer students must have official transcripts sent to the Admissions Office directly from each institution attended. The Summer Session application in this catalog should *not* be completed.

Transfer applicants must present at least 28 semester hours of college-level work with a minimum 2.0 (C) overall grade point average on all college-level academic work attempted and be eligible to return to the last institution regularly attended. Programs that are experiencing space limitations may require a higher minimum grade point average for admission. If credit has not been received on a college-level mathematics course, the secondary school record must be submitted. Students presenting less than 28 semester hours must also meet the admissions requirements for entering freshmen.

NEW GRADUATE STUDENTS

All students working towards advanced degrees are enrolled in the Graduate School. An application for admission may be obtained from the Dean of the Graduate School, Peele Hall, P. O. Box 5335, NCSU, Raleigh, North Carolina 27650.

STUDENTS ADMITTED TO THE FALL SEMESTER

Any student accepted for regular admission for the fall semester wishing to attend either summer session should notify the Admissions Office, Peele Hall, to change the date of entrance. He or she should *not* fill out a Summer Sessions application.

SPECIAL STUDENTS

Special students must complete the Summer Sessions registration application in the front of this catalog. A special student is one who has not been formally admitted as a degree candidate at North Carolina State University. All students visiting from other schools will be classified as special students. Special students are limited to a class load of *not* more than seven semester hours per session. In unusual cases, a special student visiting from another college may be allowed to take more than seven hours if permission is obtained from the Director of Summer Sessions.

Undergraduate Special Students (UGS) - This classification is used for individuals who have not obtained a baccalaureate degree and who wish to take courses but who are not currently admitted to a degree program.

Post-Baccalaureate Studies (PBS) - This classification is designed for students who wish to undertake academic work beyond the baccalaureate degree but who are not currently admitted to a degree program. The following policies apply to students who wish to register as PBS: (this program is closed to foreign students.)

1. All must have baccalaureate degrees from accredited institutions of higher education.
2. Registration is through the Division of Continuing Education; the submission of transcripts is not required. Post-Baccalaureate students may register for course work at any level. Registration for regular course credit (A, B, C, D, NC or S, U) at the 500 and 600 levels is limited to a total of nine semester hours. (Hours completed in the "Graduate Special" classification which was discontinued at the end of the 1974 fall semester or in any other graduate classification or any hours approved for graduate credit while classified as a senior or unclassified undergraduate at North Carolina State University will be included in the nine hours permitted.) Students classified as PBS may register for further course work at the 500- and 600 levels for "Credit Only."

3. Registration is normally limited to a maximum of two courses per session. Individuals who are employed full-time should limit their PBS registrations to one course per session.
4. The PBS classification carries with it no implication that the student will be admitted to the Graduate School in any degree classification.
5. A Post-Baccalaureate student who is in due course admitted to a graduate degree program may request that a maximum of nine hours of course work at the 400-level or above taken for regular course credit (A, B, C, D, NC or S, U) be considered for graduate degree credit. No course taken for "Credit Only" (which is graded "CS" or "CU") may be considered for graduate degree credit. All course work accepted for degree credit must be approved by the student's advisory committee as being germane to the program. Requests for degree credit for courses completed in the PBS classification are considered when the student's Plan of Graduate Work is filed with the Graduate School after admission to a graduate degree program.
6. Students classified as PBS are expected to familiarize themselves with Graduate School policies and to seek further advice or clarification as needed.

CONTINUING NCSU DEGREE STUDENTS

Any regular NCSU degree candidate may attend Summer Sessions. *The Summer Session application in this catalog must not be completed*, but registration procedures as listed on page 11 must be followed.

READMISSION OF FORMER NCSU DEGREE STUDENTS

Former NCSU degree students who wish to attend Summer Sessions must apply for readmission through Registration and Records at least 30 days prior to be intended date of return. The readmission application may be obtained by writing to the Department of Registration and Records, P. O. Box 5745, NCSU, Raleigh, N.C. 27650. *The Summer Session application in this catalog must not be completed*, but registration procedures as listed on page 11 must be followed.

SUSPENDED NCSU DEGREE STUDENTS

NCSU degree students suspended at the end of the spring semester, 1978 may attend one or both sessions of the Summer Session to become eligible to continue in the fall. *The Summer Session TV students are learning how to use the portable tape recorder.*



mer Sessions application in this catalog must not be completed, but registration procedures as listed on page 11 must be followed. Students suspended prior to the spring semester, 1978 may attend one or both sessions of the Summer Sessions but should follow readmission procedures. The readmission application may be obtained by writing Department of Registration and Records, P. O. Box 5745, NCSU, Raleigh, N.C. 27650.

REGISTRATION

PREREGISTRATION FOR NCSU DEGREE STUDENTS

All NCSU degree students who plan to attend Summer Sessions must preregister. Preregistration consists of selecting the courses to be taken during the first and/or second session and filing a Preregistration Schedule Request Form with Registration and Records. On Registration Day, each student obtains a completed class schedule. (Graduate degree students who preregister will be allowed to complete registration by mail.)

Currently enrolled degree students will preregister for the Summer Session at the time they preregister for the 1978 fall semester.

Former degree students returning may preregister for the Summer Session after they have filed an application for readmission and have received their letters of approval.

New freshmen and new transfer degree students may preregister for the Summer Sessions after they have received their letter of approval. New students who desire to attend the Summer Sessions should contact the Admissions Office.

The preregistration period for all NCSU degree students will be from Monday, April 10, 1978, through Friday, April 14, 1978. The last day to preregister for the first summer session will be Friday, April 28, 1978 and for the second session, Friday, June 9, 1978.

PREREGISTRATION FOR SPECIAL STUDENTS

Special students will preregister for the Summer Session by completing the Summer Sessions Registration Application in the front of the Summer Sessions Catalog and filing this with the Summer Sessions Office by mail or in person. Preregistration requests for the first summer session will be accepted through Friday, April 28, 1978, and for the second summer session through Friday, June 9, 1978. On Registration Day, each student will obtain a completed class schedule.

REGISTRATION

All students will complete registration on Tuesday, May 23, 1978 (first session) and or July 5, 1978 (second session) at Reynolds Coliseum. Registration on both days will be from 8:30 a.m. to 12 noon. There will be a \$20 late registration fee for all students who fail to register by 12 noon on the respective registration day. *Preregistration will automatically be cancelled for those who do not complete registration by 12 noon on the respective registration day.*

WITHDRAWAL FROM THE UNIVERSITY

A regularly enrolled (degree) student who finds it necessary to drop all courses will initiate withdrawal from the University at the Counseling Center, 200 Harris Hall. A special (non-degree) student in the same circumstance initiates withdrawal from the University at the Summer Sessions Office, McKimmon Center, Gorman Street and Western Boulevard. A student who withdraws will not have any grades recorded. A student who discontinues attending classes without officially withdrawing will receive all "NC" grades.

After a short period (four days) during which it is possible to withdraw with a refund of fees (less a registration fee), there is a period during which a student may withdraw but without refund. The withdrawal deadline for undergraduates (regularly classified and UGS students) corresponds to the last day to drop a course at the 100 level or below; for graduate students (including Post-Baccalaureate students) the deadline for withdrawal corresponds to

the last day to drop 500 or 600 level courses. (See Summer Sessions Calendar for dates.) After the published deadlines, there is no withdrawal except for unusual circumstances which can be documented as, for example, extended illness. Under these circumstances a student may petition the Refund Committee for a prorated refund of tuition and fees.

SPECIAL NOTES

1. Tuition and fees are payable by check or cash *before* or *on* the day of registration. Advanced billing of tuition and fees will be made *only* for those students who preregister and payment is requested by May 15, 1978 for first summer session and June 26, 1978 for second summer session.
2. Students planning to take courses in both sessions should plan their sequences well in advance. Offerings in the second session are often substantially less in number than in the first session, and in many instances, departments do not offer courses in both summer sessions.
3. Everything possible will be done to insure that the courses listed in the catalog will be given at the time indicated. *However, the Director of Summer Sessions reserves the right to cancel courses in which enrollment is deemed insufficient.*
4. The normal load for either session of the Summer Session is six or seven hours for undergraduates and six hours for graduates. Any student may carry less. Regularly enrolled students who desire to carry *more* than seven hours must obtain the approval of the dean or director of instruction of the school in which they are enrolled. Students



The shady areas around Harrelson Hall are most inviting for a leisurely break between classes.

visiting from other schools who wish to take more than seven hours must obtain the approval of the Director of Summer Sessions.

5. All special students (including those from other universities and colleges) are advised that NCSU degree students are always given priority for Summer Sessions classes. Acceptance of the Registration Application for special students by the Summer Sessions Office in no way constitutes a guarantee that class space will be available.

NONDISCRIMINATION POLICY

North Carolina State University is dedicated to equality of opportunity within its community. Accordingly, North Carolina State University does not practice or condone its discrimination, in any form, against students, employees, or applicants on the ground of race, color, national origin, religion, sex, age, or handicap. North Carolina State University commits itself to positive action to secure equal opportunity regardless of those characteristics.

North Carolina State University supports the protection available to members of its community under all applicable Federal laws, including Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Sections 799A and 845 of the Public Health Service Act, the Equal Pay and Age Discrimination Acts, the Rehabilitation Act of 1973, and Executive Order 11246. For information concerning these provisions, contact:

Dr. Lawrence M. Clark
Assistant Provost and Affirmative Action Officer
201 Holladay Hall
North Carolina State University
Raleigh, North Carolina 27650
Phone: (919) 737-3148

ACADEMIC REGULATIONS

North Carolina State University's grading system for measuring academic achievement which became effective the fall semester, 1976, is:

LETTER GRADES

Grades	Definition	Quality Points Per Credit Hour
A	Excellent	4
B	Good	3
C	Satisfactory	2
D	Marginal	1
S	Satisfactory (grade for credit-only course)	
U	Unsatisfactory (no credit grade for credit only course)	
NC	No Credit	0
IN	Incomplete	
LA	Temporarily Late	
AU	Audit	
NR	No recognition given for Audit	
CR	Credit by Examination or Advanced Placement	

GRADE POINT AVERAGE

The number of credit hours officially attempted in a semester or summer session (for which a report of A, B, C, D, NC is received) is divided into the total number of quality points



Biological sciences course work includes laboratory problems in plant identification.

earned to arrive at the Grade Point Average (GPA):

- A = 4 quality points per credit hour*
- B = 3 quality points per credit hour*
- C = 2 quality points per credit hour*
- D = 1 quality point per credit hour*
- NC = 0 quality points per credit hour*

The Grade Point Average of work attempted will be computed to three decimal points and used solely for class ranking and academic recognition. Questions concerning this grading system should be directed to James H. Bundy, University Registrar, P. O. Box 5745, NCSU Raleigh, N. C. 27650.

FINAL EXAMINATIONS

Final examinations will be given for the first summer session on Wednesday, June 28, 1978 and for the second summer session on Thursday, August 10, 1978 in accordance with the following schedule:

<i>Class Scheduled</i>	<i>Examination Hour</i>
For 7:30, 8:00 or 9:10	8:00-11:00
For 9:50 or 10:20	12:00- 3:00
For 11:40 or after, for students with examination conflicts, and for arranged classes	4:00- 7:00

UNIVERSITY JUDICIAL SYSTEM

All students are subject to and are responsible for familiarizing themselves with the Student Body Statutes. Copies of the Student Body Statutes are available in the Student Development Office, Harris Hall or the Student Attorney General's office, 4130 University Student Center.

EXPENSES

The following expenses apply for each of the summer sessions.

TUITION AND FEES - SUMMER SESSIONS 1978

RESIDENTS OF NORTH CAROLINA				NONRESIDENTS			
Hours	Tuition & Academic Fee	Required Fees	Total	Hours	Tuition & Academic Fee	Required Fees	Total
1	\$ 21.00	\$ 33.00	\$ 54.00	1	\$ 63.00	\$ 33.00	\$ 96.00
2	34.00	33.00	67.00	2	119.00	33.00	152.00
3	47.00	33.00	80.00	3	175.00	33.00	208.00
4	60.00	33.00	93.00	4	231.00	33.00	264.00
5	73.00	33.00	106.00	5	287.00	33.00	320.00
6	86.00	33.00	119.00	6	343.00	33.00	376.00
7	99.00	33.00	132.00	7	399.00	33.00	432.00
8	112.00	33.00	145.00	8	455.00	33.00	488.00
9	125.00	33.00	158.00	9	511.00	33.00	544.00
10	138.00	33.00	171.00	10	567.00	33.00	600.00

REQUIRED FEES (must be paid by all students)

Medical	\$ 10.00
Student Center	17.50
Physical Education	5.50
	\$ 33.00

NOTE: Rates for tuition and fees are subject to change.

SPECIAL REGISTRATION AND FEES

Summer Research (GR 596S or GR 696S)	
In-Residence (\$32.00 plus \$33.00 Fees)	\$ 65.00
*Not-In-Residence	32.00
Thesis Preparation Only (GR 598 or GR 698)	
In-Residence (\$32.00 plus \$33.00 fees)	65.00
*Not-In-Residence	32.00
Dissertation Research (GR 697)	
In-Residence (\$32.00 plus \$33.00 fees)	65.00
*Not In Residence	32.00
Examination Only (GR 597)	
In Residence (\$21.00 plus \$33.00 fees)	54.00
*Not-In-Residence	21.00
Audit Only	Rates same as for credit

* A student not from a foreign employer, or a student from the Department of Education, is not eligible for the student with financial aid awarding the non-resident fees included in the Office of Registrar's Manual for the first semester.

RESIDENCE STATUS FOR TUITION PAYMENT

To be considered for in-state tuition applicants must have maintained a legal domicile in N.C. for 12 months prior to classification or reclassification as a resident. In order to be eligible for such classification, the individual must establish that his or her presence in the State during this 12 month period was for purposes of maintaining a bona fide domicile rather than for purposes of mere temporary residence incident to enrollment in an institution of higher education. Further, 1) if the parents (or court-appointed legal guardian) of the individual seeking resident classification are (is) bona fide domiciliaries of this State, this fact shall be prima facie evidence of domiciliary status of the individual applicant and 2) if such parents or guardian are not bona fide domiciliaries of this State, this fact shall be prima facie evidence of non-domiciliary status of the individual.

No person shall lose in-state resident status by serving in the armed forces outside the State of North Carolina.

Questions concerning residence should be addressed to the Director of Admissions. University regulations concerning the classification of students by residence, for purposes of applicable tuition differentials, are in *A Manual to Assist the Public Higher Education Institutions of North Carolina in the Matter of Student Residence Classification for Tuition Purposes*. Copies are available for review at the Admissions Office, 112 Peele Hall.

REFUND OF TUITION AND FEES

A student who withdraws from school on or before the fourth day of classes of either summer session will receive a refund of the full amount paid less a registration fee. After the period specified, no refunds will be made.

In some instances circumstances justify waiving rules regarding refunds. An example might be withdrawal from the University because of illness. Students have the privilege of appeal to the refund committee when they feel special consideration is merited. Application for such appeals may be secured from the Division of Student Affairs.

FINANCIAL AID

The financial aid available to regular students attending the Summer Sessions is ordinarily limited to loans and jobs. Students who must have financial aid should make application to the Financial Aid Office, Peele Hall, as far in advance as possible, preferably no later than April 1, 1978.

The University has no financial aid for summer visitor students. However, these students may have access to the part-time job listings in the Financial Aid Office.

COUNSELING

The Counseling Center in Harris Hall has a staff of full-time counselors to help students with adjustment to college life, vocational and curricular choice and other problems a student might wish to discuss with a professionally trained counselor. The Center administers vocational tests and maintains a file of occupational information to help guide students in career selection.

Referral can be made for students needing special kinds of help.

Students may come to the Center on their own accord, or they may be referred by teachers, advisers or other members of the University staff. There normally is no charge for conferences; nominal fees are charged for group counseling and continuing marriage counseling.

HOUSING

RESIDENCE HALLS

During the 1978 summer sessions, housing will be provided in the residence halls for men and women who are enrolled for one or more courses. Participants in short courses, conferences, and workshops of less than one month's duration will be located in separate facilities. These persons should write to the director of their program for specific housing information pertaining to their particular group.

Assignment to a room for a summer session does not guarantee that a room will be



Poe Hall is headquarters for the School of Education.

available for the fall semester. A student must be accepted by NCSU for fall enrollment in order to be eligible to apply for University housing.

The rooms are furnished with desks, dressers, beds, and closets and the building is equipped with lounges, laundry rooms, and vending areas. None of the residence halls are air-conditioned. A selected student staff under the supervision of professionally trained personnel will be available to advise and assist residents and to oversee the operation of the building and its condition.

MARRIED STUDENT HOUSING

The University operates 300 apartments (King Village) for married students. Information on availability should be requested from the Department of Residence Life, NCSU, Box 5072, Raleigh, North Carolina 27650.

FRATERNITY HOUSES

Several of the 17 fraternity houses located on or adjacent to the campus provide housing for summer session students. Twelve of the 17 houses are fully air-conditioned and all provide furnished rooms and living areas. In addition, some houses offer board plans during the summer months. Any student interested in further details should write to the Office of Student Development, Box 5072, NCSU, Raleigh, N. C. 27650 or telephone 737-2441.

ROOM RENTALS AND APPLICATIONS

The rental rate for a five-week session is \$70 per person in a double room. If space is available, a single room may be reserved for \$110 each session. To obtain an assignment, the student must complete the room application card (new students will be mailed a card) and return it with a check to the Office of Business Affairs, NCSU Box 5067, Raleigh, North Carolina 27650. The room assignment will be mailed if time permits, or may be picked up at the Department of Residence Life in Harris Hall on the day the residence halls open for the session.

Residents will be permitted to change rooms after the first week of classes with the approval of the Department of Residence Life. The room change fee is \$5. Opening days of the residence halls:

First Session - 10 a.m., Monday, May 22, 1978

Second Session - 10 a.m., Tuesday, July 4, 1978

HOUSING REFUND POLICY

1. Cancellation of a room application must be made in writing as follows:

- (a) In person at the Department of Residence Life in Harris Hall, Monday through Friday, between 8 a.m. and 5 p.m., on the cancellation form provided; or
- (b) By mail addressed to the Department of Residence Life, Box 5072, NCSU, Raleigh, North Carolina 27650.

The effective date of cancellation is the date notification is received at the Department of Residence Life or the date the room is vacated, whichever is later. Residents who have moved into their rooms must present their Room Clearance Card to the Department of Residence Life when applying for a room rent refund.

If the room application is cancelled on or before registration day, the rental fee paid will be refunded less a \$35 processing fee. If the room application is cancelled AFTER 5 p.m. on registration day, NO REFUND of room rent will be made unless

there is a waiting list of room applicants from which the vacated space can be filled. If vacancies exist, there will be NO REFUND until all spaces have been filled. A refund given after registration day will be the rental fee paid less a \$35 processing fee and a daily rental charge beginning with registration day until all spaces have been filled.

If a student fails to check in and secure his/her keys by the first day of classes, the room application will be cancelled and NO REFUND will be made except as stated above.

D. H. HILL LIBRARY

The libraries of North Carolina State University contain more than 800,000 volumes of books and bound journals, half-a-million federal government publications, and over a million microforms. The collection is especially strong in the physical and biological sciences, agriculture, textiles, architecture and design. The D. H. Hill Library houses the vast majority of these publications and subscribes to 7,000 periodicals. Three branch libraries—the School of Textiles Library in Nelson Hall, the Design School Library in Brooks Hall, and the School of Forest Resources Library in Biltmore Hall—serve the special needs of these schools.

The D. H. Hill Library has been a depository for U. S. Government publications since 1924 and receives over 97% of these publications. The library also receives the microfiche research reports published by the Energy Research and Development Administration (ERDA), the



The D.H. Hill Library is an excellent research and study facility containing over 800,000 volumes.

National Aeronautical and Space Administration (NASA), the Educational Resources Information Center (ERIC), and the National Technical Information Service (NTIS).

On-line computer-based literature searching is offered by the library for a number of data bases such as ERIC, CAIN, Psychological Abstracts, Sociological Abstracts, Biological Abstracts, and Nuclear Science Abstracts. Only direct costs are charged to the user.

Facilities and equipment are also available for both individual and group use of audiovisual media. The library's theater can be scheduled for group media presentations, and films in the State Library's film collection can be borrowed by the D. H. Hill Library's Media Center for academic use by faculty and students.

The scholar, student, and browser will each discover the materials and services of the library to be useful and enjoyable additions to his or her summer sessions program. All areas of the library complex are air-conditioned and open to students and faculty.

Library hours for the Summer Sessions are as follows:

Monday-Thursday	7:45 a.m. - 11:00 p.m.
Friday	7:45 a.m. - 9:30 p.m.
Saturday	9:00 a.m. - 5:30 p.m.
Sunday	1:00 p.m. - 11:00 p.m.

SUMMER ACTIVITIES

Through many curricular and extracurricular activities, the Summer Sessions provide special opportunities to those students engaged in summer study. Interesting, informative and entertaining programs and activities are scheduled for each session.

A few of the more popular activities and special features include the Carmichael Gym athletic and recreation programs and the varied activities sponsored by the University Student Center.



The University Student Center is the hub for a wide variety of student social and recreational activities.

The University's regular program of student personnel services is available to summer students. It includes the Counseling Center for educational, career and personal counseling; the Career Planning and Placement Center for career planning and placement; the Residence Life and Residence Facilities offices for residence quarters; the Financial Aid Office for financial assistance; and the Student Health Service for medical care.

Beyond the campus, the city of Raleigh offers cultural and recreational opportunities of interest to students. The Raleigh Little Theater presents several productions during the summer, the North Carolina Museum of Art sponsors gallery concerts and exhibits, and there are several swimming pools and city and state parks located in and around Raleigh.

UNIVERSITY STUDENT CENTER

The hub of campus summer activity is the University Student Center. The Center is supported in part by student fees, and all regularly enrolled students are invited to attend the programs and activities sponsored by the Summer Programs Board.

These programs include movies and a variety of social and recreational events.

The air-conditioned Center offers many facilities, including a television lounge, an art gallery, offices for student organizations, a billiards room, cloak room, snack bar, craft shop, theater and meeting rooms.

A Center annex in the Erdahl Cloyd Wing of the D. H. Hill Library offers a barbershop, a snack bar and a games room.

Building hours during the summer are:

University Student Center

Monday-Saturday

7 a.m.-11 p.m.

Sunday

9 a.m.-11 p.m.

University Student Center Annex Snack Bar and Games Area:

Monday-Friday

7 a.m.-3 p.m.

Saturday and Sunday

Closed

Vending open 24 hours a day

SPECIAL COURSES AND INSTITUTES

Department of Adult and Community College Education

SPECIAL THREE-WEEK SUMMER SESSION FOR ADULT AND COMMUNITY COLLEGE EDUCATORS

July 10-28

The Department of Adult and Community College Education offers a special three-week summer program of instruction designed to provide graduate study and professional improvement opportunities for human service professionals involved in adult learning and education. This intensive session assists extension workers, community college and technical institute personnel, vocational education teachers, and others to increase their understanding of topics such as aging, community education, social action, instructional strategies, and the future of adult education. It also offers opportunities for keeping up-to-date in areas of agricultural technology.

The program is interdisciplinary; it enlists the professional competence of visiting and resident faculty. Courses meet daily in three-hour blocks scheduled for morning, afternoon, or evening. ED 596 is offered in one-week modules, making it possible to enroll for one, two or three weeks. Each participant may take a maximum of three semester hours. Course offerings are listed below.

Currently enrolled or former degree students at North Carolina State University must preregister through the normal preregistration procedures. All special students must preregister by completing the Summer Session registration application in the front of this catalog. Special students should see pages 9 and 10 for additional information. Students enrolling for the special three week summer session will be allowed to complete registration at the Department of Registration and Records in Harris Hall, July 10, 1978. To assist the Department of Adult and Community College Education in planning, students are requested to complete and return an information form by June 9, 1978. The form may be obtained from Dr. J. W. Wright, Department of Adult and Community College Education, 120 Ricks Hall, NCSU, Raleigh, N.C., 27650.

ED 538	Instructional Strategies in Adult Education
ED 541	Community Education
ED 593	Special Problems in Agricultural Education
ED 596(002)	Issues in Aging
ED 596(003)	The Future of Adult Education
ED 596(004)	Adults' Learning Projects: Research and Innovations
ED 596(005)	A Social Systems Perspective on Adult Education
ED 596(006)	Policy Analysis in Adult Education
ED 597U	Use of the Arts in the Basic Curriculum
SOC 591J	Social Action and Change Agents
CS 414	Weed Science
PM 415	Crop Pest Management
HS 440	Green House Management

Summer Institute in English for Foreign Students

July 3 - August 11

The Summer Institute in English for Foreign Students at North Carolina State University is designed for those students from other countries who intend to pursue University studies or specialized training programs in the United States in the fall. It is designed to furnish them with intensive instruction and practice in the use of the English language. Emphasis is

placed on developing fluency in speaking and understanding spoken English as well as reading and writing skills. The Institute also offers orientation to American life and institutions to give the students insight into life in the U. S. and help them to adjust to the new environment. There are field trips on weekends to various industries and places of historic, cultural and scenic interest.

Any student who has a score of 400 on the TOEFL Test (Test of English as a Foreign Language) or an equivalent facility in the use of spoken English may attend the Institute. (Information about taking the test at one of the centers located in the students' home countries may be obtained by writing to: Test of English as a Foreign Language, Educational Testing Service, Princeton, New Jersey.)

Admission to the Institute does not imply admission to the regular session at North Carolina State University or any other campus of the University of North Carolina.

The Institute, which is sponsored by the Division of Continuing Education in cooperation with the Summer Sessions and the Department of Foreign Languages and Literatures, is under the direction of Miss Virginia Prichard of the Department of Foreign Languages and Literatures. All classroom work is conducted on the campus. Classes, including language laboratory practice sessions, are held five and a half hours a day, Monday through Friday, from 8:00 to 12:30 and 2:00 to 3:00. (Attendance at the Institute does not carry academic credit, although students who complete the program receive a certificate of attendance.)

The total cost of the six-week program is approximately \$740. The cost of the Institute is estimated on the basis of campus dormitory accommodations and meals at the campus cafeterias. Incidental expenses, such as laundry, dry cleaning, entertainment, etc., are not included. (Room rent includes sheets and towels.)

Tuition, Books and Fees	\$310.00
Room in Campus Dormitory	\$132.00
Food (Estimated)	\$275.00
Insurance and Infirmary Fee	\$ 23.00

For further information about the Institute, write to John F. Cudd, Program Coordinator, Division of Continuing Education, P. O. Box 5125, NCSU, Raleigh, North Carolina, 27650.

A Summer at Oxford

In cooperation with the University of North Carolina at Asheville, the School of Humanities and Social Sciences at North Carolina State University will be sponsoring a summer school for approximately 40 students at St. Benet's Hall, Oxford, England. St. Benet's, a permanent private hall of Oxford University, is a most attractive 18th century building right in the center of this ancient university city.

Courses, taught primarily by faculty associated with Oxford, will be offered in The Modern English Theater, Shakespeare, The Economics and Politics of the Common Market, Comparative Criminology, and the Sociology of Town Planning. Where appropriate, these courses will involve visiting speakers and field trips. Thus the Shakespeare course will be built around next summer's repertoire of the Royal Shakespeare Company at Stratford-on Avon, that on the Modern English Theater will include visits to several plays in London, and the Town Planning students will visit a half dozen English cities ranging from Bath to Milton Keynes.

Fees for the four-week program including room, board and tuition, will be \$650. Apart from spending money the only addition students will have to pay will be their air fare. The cost of The Laker "Skytrain" New York/London round trip is \$237. The summer school will be held from July 1st to 28th, and afterwards students will be free to travel in the British Isles and the Continent. Anyone wishing further information please contact Dean Gerald Hawkins, Student Affairs, phone 737-3151, Dr. Charles Carlton, History, 737-2481, or Dean W. B. Toole, Humanities and Social Sciences, 737-2468.

School of Education

EARLY SUMMER SESSION FOR TEACHERS

In order to meet the needs of teachers in the area, six graduate courses are being offered late afternoons meeting twice a week in three-hour classes beginning *May 15 or 16* and ending *June 28 or 29*. Since the regular first summer session begins on May 24, the usual preregistration and registration procedures DO NOT APPLY.

The six courses are:

ED 508	Severe and Profound Mental Retardation	May 16-June 29	Room: Poe 218
ED 530	Theories and Techniques of Counseling	May 16-June 29	Room: Poe 529
ED 533	Group Counseling	May 15-June 28	Room: Poe 529
ED 558	Resource Teaching in Special Education	May 15-June 28	Room: Poe 220
ED 598P	Special Problems in Curriculum and Instruction: Programmed Instruction	May 16-June 29	Room: Poe 209
PSY 576	Developmental Psychology	May 15-June 28	Room: Poe 204

To register for a course(s) listed above, the student should come to Poe Hall at 4:00 P.M. on the first day of classes. *Registration will be done during the first class meeting.* Each student will complete a special registration form and attach a check for tuition to be collected by the instructor. (Students NOT in attendance on the first day of classes will be required to go to Poe 208 to register.)

To reserve a place in a class, the following procedures must be followed:

- A. Graduate and undergraduate degree students enrolled spring semester, 1978, *do not* preregister for these courses; instead, go by the Office of the Dean, School of Education, 208 Poe Hall, and complete a form declaring your intent to enroll in one of these course(s). Note: Do not pay tuition for first summer session until the first meeting of these classes.
- B. Special students (see page 9) may secure a form declaring intent to register for the Early Summer Session for Teachers, by writing to: Dr. Carl Dolce, Dean, School of Education, Box 5096, NCSU, Raleigh, N. C. 27650. The form must be completed and returned to the same address.
- C. Students not completing and filing a form with the School Dean, 208 Poe, declaring an intent to enroll, may come to the first class meeting and register. However, registration will be conducted on a "first-come, first-serve basis". Those who had filed the form indicating intent to enroll will be allowed to register first.

COURSE LISTINGS

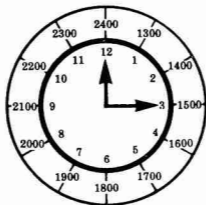
Courses are listed by department, departmental abbreviation and numerical designator. Semester hour credits for each course are given following the name of the course. Classes meet daily, Monday through Friday, except where specified to the contrary. The symbols "LR" and "LB" before the clock hours refer to lecture-recitation and laboratory hours, respectively. If there is no symbol before the clock hours, lecture-recitation is implied. The symbol "CN" refers to the call number for each course. This number must be indicated on the preregistration schedule request form by students who are preregistering for summer sessions courses.

Courses numbered from one through 100 are preparatory courses carrying no college credit; courses in the 100, 200, 300 and 400 series are primarily designed for undergraduates; courses in the 500 series for graduates and advanced undergraduates; and courses in the 600 series for graduates only.

All courses are subject to cancellation by the Director of Summer Sessions if there is inadequate enrollment.

Waiver of prerequisites is at the discretion of the instructor.

Please note that class meeting times in this catalog are indicated in international time which is measured in hours numbered to 24 instead of 12.



If the schedule shows the class beginning at:

0800	8:00 a.m.
0900	9:00 a.m.
1000	10:00 a.m.
1100	11:00 a.m.
1200	12:00 noon
1300	1:00 p.m.
1400	2:00 p.m.
1500	3:00 p.m.

The beginning hour in terms of a 12-hour clock is:

If the schedule shows the class beginning at:

1600	4:00 p.m.
1700	5:00 p.m.
1800	6:00 p.m.
1900	7:00 p.m.
2000	8:00 p.m.
2100	9:00 p.m.
2200	10:00 p.m.

The beginning hour in terms of a 12-hour clock is:

Special Graduate Categories

FIRST SESSION AND SECOND SESSION

GR 596S	MR Summer Research	(CN 46-596-001)	0
GR 597	Masters Exam	(CN 46-597-001)	0
GR 598	MR Thesis Preparation	(CN 46-598-001)	0
GR 696S	DR Summer Research	(CN 46-696-001)	0
GR 697	Dissertation Research	(CN 46-697-001)	0
GR 698	DR Thesis Preparation	(CN 46-698-001)	0

Accounting

FIRST SESSION

ACC 260	Accounting I Concepts of Financial Reporting		3
0800-0930	(CN 04-260-001)		Bowen
0900-0930	(CN 04-260-002)		Smith
0950-1120	(CN 04-260-003)		Messere
ACC 261	Accounting II Financial Information Systems		3
Preq: ACC 260			
0950-1120	(CN 04-261-001)		Bowen
ACC 262	Managerial Uses of Cost Data		3
Preq: ACC 260			
1140-1310	(CN 04-262-001)		Brown
ACC 262N*	Managerial Uses of Cost Data		3
Preq: Non-accounting major			
0950-1120	(CN 04-262-002)		Smith
ACC 360	Financial Reporting Theory and Practice I		3
Preq: ACC 261			
0950-1120	(CN 04-360-001)		Brown
ACC 464	Income Taxation		3
Preq: ACC 260			
0800-0930	(CN 04-464-001)		Messere

*N stands for Non majors.

SECOND SESSION

ACC 260	Accounting I Concepts of Financial Reporting		3
0800-0930	(CN 04-260-001)		McBurney
0950-1120	(CN 04-260-002)		Bergold
ACC 261	Accounting II Financial Information Systems		3
Preq: ACC 260			
0950-1120	(CN 04-261-001)		McBurney
ACC 361	Financial Reporting Theory and Practice II		3
Preq: ACC 360			
0800-0930	(CN 04-361-001)		Bergold

Animal Science

FIRST SESSION

ANS 590	Topical Problems in Animal Science		Maximum 6
Hours arranged	(CN 10-590-001)		

ANS 699 **Research in Animal Science** Credits Arranged
Hours arranged (CN 10-699-001)

SECOND SESSION

ANS 590 **Topical Problems in Animal Science** Maximum 6
Hours arranged (CN 10-699-001)

ANS 699 **Research in Animal Science** Credits Arranged
Hours arranged (CN 10-699-001)

Anthropology

FIRST SESSION

ANT 252 **Cultural Anthropology** 3
0950-1120 (CN 12 252-001) Nickerson

ANT 305 **Peoples of the World** 3
0800-0930 (CN 12-305 001) Nickerson

SECOND SESSION

ANT 252 **Cultural Anthropology** 3
0800 0930 (CN 12-252 001) Wallace
0950-1120 (CN 12 252-002) Wallace

Architecture

FIRST SESSION

ARC 595 **Independent Study** *1 3
Preq: Graduate standing and approval of program director and advisory committee required
Hours arranged (CN 13 595-001) Loss

SECOND SESSION

ARC 595 **Independent Study** *1-3
Preq: Graduate standing and approval of program director and advisory committee required
Hours arranged (CN 13 595 001) Loss

Biochemistry

FIRST SESSION

BCH 490 **Special Studies in Biochemistry** 1 3
Preq: Senior standing
Hours arranged (CN 15-490 001) Staff

BCH 554 **Radioisotope Techniques in Biology** 2
Preq: BCH 351 or permission of instructor
0810-1200 (CN 15-554-001) Sisler
May 24 June 13 Three-week course

*Credits six maximum in any program of work. Students may not preregister for these courses. Courses may be added on Registration Days, May 23 (first season), July 5 (second session.)

BCH 590 Special Topics in Biochemistry Preq: BCH 351 or equivalent Hours arranged (CN 15-590-001)	Maximum 3 Staff
BCH 695 Special Topics in Biochemistry Preq: Graduate standing in biochemistry Hours arranged (CN 15-695-001)	Credits Arranged Staff
BCH 699 Biochemical Research Hours arranged (CN 15-699-001)	Credits Arranged Staff
SECOND SESSION	
BCH 351 Elementary Biochemistry Preq: CH 223 0950 1120 (CN 15-351-001)	3 Main
BCH 490 Special Studies in Biochemistry Preq: Senior standing Hours arranged (CN 15-490-001)	1-3 Staff
BCH 590 Special Topics in Biochemistry Preq: BCH 351 or equivalent Hours arranged (CN 15-590-001)	Maximum 3 Staff
BCH 695 Special Topics in Biochemistry Preq: Graduate standing in Biochemistry Hours arranged (CN 15-695-001)	Credits Arranged Staff
BCH 699 Biochemical Research Hours arranged (CN 15-699-001)	Credits Arranged Staff

Biological and Agricultural Engineering

FIRST SESSION

BAE 590 Special Problems Preq: Senior or graduate standing in biological and agricultural engineering Hours arranged (CN 16-590-001)	Credits Arranged Staff
BAE 690 Special Topics Preq: Graduate Standing Hours arranged (CN 16-690-001)	Credits Arranged, 1-4 Staff
BAE 699 Research in Biological and Agricultural Engineering Preq: Graduate Standing in biological and agricultural engineering Hours arranged (CN 16-699-001)	Credits Arranged 1-4 Staff

SECOND SESSION

BAE 590 Special Problems Preq: Senior or graduate standing in biological and agricultural engineering Hours arranged (CN 16-590-001)	Credits Arranged Staff
BAE 690 Special Topics Preq: Graduate standing Hours arranged (CN 16-690-001)	Credits Arranged, 1-4 Staff
BAE 699 Research in Biological and Agricultural Engineering Preq: Graduate standing in biological and agricultural engineering Hours arranged (CN 16-699-001)	Credits Arranged, 1-4 Staff

Biological Sciences

FIRST SESSION

BS 100 General Biology	4
LR 0800-0930 (CN 17-100-001)	
LB 1020-1300 TTh (CN 17-100 101)	
LB 1340 1620 TTh (CN 17 100-102)	
LB 1020-1300 WF (CN 17-100-103)	
LB 1340-1620 WF (CN 17-100 104)	Staff
BS 495A Special Topics in Biology	Credits Arranged, 1-6
Hours arranged (CN 17 495 001)	Staff
BS 495B Special Topics in Biology	
Advanced Biology for Secondary Teachers	6
LR 0800-0930 (CN 17 495 002)	
LB 1020 1230 and 1340-1550 MTWTh (CN 17-495 101)	Sherbine, Lytle
June 19-July 21 Five week course	

SECOND SESSION

BS 495 Special Topics in Biology	Credits Arranged, 1 6
Hours arranged (CN 17-495-001)	Staff

Biomathematics

FIRST SESSION

BMA 493 Special Topics in Biomathematics	1 3
Prq: Consent of instructor	
Hours arranged (CN 18 493-001)	Staff
BMA 591 Special Topics	Maximum 3
Prq: Consent of instructor	
Hours arranged (CN 18 591-001)	Staff
BMA 691 Advanced Special Topics	1 3
Prq: Consent of instructor	
Hours arranged (CN 18 691-001)	Staff
BMA 699 Research	Credits Arranged
Prq: As required	
Hours arranged (CN 18-699 001)	Staff
Hours arranged (CN 18-699-002)	Ridgeway

SECOND SESSION

BMA 493 Special Topics in Biomathematics	1 3
Prq: Consent of instructor	
Hours arranged (CN 18-493-001)	Staff
BMA 591 Special Topics	Maximum 3
Prq: Consent of instructor	
Hours arranged (CN 18 591 001)	Staff
BMA 691 Advanced Special Topics	1-3
Prq: Consent of instructor	
Hours arranged (CN 18-691-001)	Staff
BMA 699 Research	Credits arranged
Prq: As required	
Hours arranged (CN 18-699-001)	Staff
Hours arranged (CN 18 699-002)	Ridgeway

Botany

FIRST SESSION

BS 100 General Biology 4
(See Biological Sciences, page 29)

BO 320 Local Flora 2
Course may be taken 3 times for credit.
LB (field trips) 1340-1750 MW (CN 19-320-001) Staff

BO (ZO) 360 Introduction to Ecology 4
Prq: A 200-level biology course
LR 0800 0930 (CN 19-360-001)
LB 1340-1750 MW (CN 19-360-101) Staff
LB 1340-1750 TTh (CN 19-360-102) Staff

BO 499 Independent Study in Botany 1-3
Prq: At least eight hours of botany, advanced standing, and presentation of plan of study approved by a faculty member.
Hours arranged (CN 19-499-001) Staff

BO 590 Topical Problems 1-3
Prq: Consent of instructor
Hours arranged (CN 19-590-001) Staff

BO 693 Special Problems in Botany Credits Arranged
Hours arranged (CN 19-693-001) Staff

BO 699 Research Credits arranged
Hours arranged (CN 19-699-001) Staff

SECOND SESSION

BO 200 Plant Life 4
LR 0800-0930 (CN 19-200-001) Beckmann
LB 1340-1750 MW (CN 19-200-101) Staff
LB 1340-1750 TTh (CN 19-200-102) Staff

BO 499 Independent Study in Botany 1-3
Prq: At least eight hours of botany, advanced standing, and presentation of plan of study approved by a faculty member.
Hours arranged (CN 19-499-001) Staff

BO 590 Topical Problems 1-3
Prq: Consent of instructor
Hours arranged (CN 19-590-001) Staff

BO 590D Topical Problems—Species Biology Credits Arranged
Highlands Biological Station (CN 19-590-002) Staff

BO 693 Special Problems in Botany Credits Arranged
Hours arranged (CN 19-693-001) Staff

BO 699 Research Credits Arranged
Hours arranged (CN 19-699-001) Staff

Chemical Engineering

FIRST SESSION

CHE 497 Chemical Engineering Projects 1-3
Prq: Senior standing
Hours arranged (CN 20-497-001) Ferrell

CHE 597 Chemical Engineering Projects	1-3
Preq: Graduate standing	
Hours arranged (CN 20-597-001)	Ferrell
CHE 699 Research	Credits arranged
Hours arranged (CN 20-699 001)	Ferrell
SECOND SESSION	
CHE 497 Chemical Engineering Projects	1 3
Preq: Senior standing	
Hours arranged (CN 20-497-001)	Ferrell
CHE 597 Chemical Engineering Projects	1-3
Preq: Graduate standing	
Hours arranged (CN 20-597 001)	Ferrell
CHE 699 Research	Credits Arranged
Hours arranged (CN 20-699 001)	Staff

Chemistry

FIRST SESSION

CH 101 General Chemistry I	4
MA 111 or equivalent strongly recommended	
LR 0800 0930 (CN 21-101-001)	Staff
LB 1340-1750 MW (CN 21-101 101)	
(CN 21-101-102)	
(CN 21-101-103)	
(CN 21 101-104)	

CH 103 General Chemistry II	4
Preq: CH 101	
LR 0950-1120 (CN 21-103-001)	Staff
LB 1340-1750 TTh (CN 21-103-101)	
(CN 21-103-102)	

CH 104 Experimental Chemistry	1
Coreq: CH 105	
1340-1750 TTh (CN 21 104-001)	Staff

CH 105 Chemistry Principles and Applications	3
Preq: CH 101	
0950-1120 (CN 21-105-001)	Staff

CH 107 Principles of Chemistry	4
Preq: CH 101 with a grade of C or better	
LR 0950-1120 (CN 21-107-001)	Staff
LB 1340-1750 TTh (CN 21-107-101)	
(CN 21-107-102)	

CH 111 Foundations of Chemistry 1340-1620 (CN 21-111-001)	4 Staff
CH 220 Introductory Organic Chemistry Preq: CH 103 or CH 107, or CH 104 and CH 105 LR 0800-0930 (CN 21-220-001) LB 1340-1750 MW (CN 21-220-101) LB 1340-1750 TTh (CN 21-220-102)	4 Staff
CH 221 Organic Chemistry I Preq: CH 107 *LR 0800-0930 (CN 21-221-001) LB 1340-1750 MW (CN 21-221-101) (CN 21-221-102) *LR 0950-1120 (CN 21-221-002) LB 1340-1750 TTh (CN 21-221-103) (CN 21-221-104)	4 Staff Staff
CH 223 Organic Chemistry II Preq: CH 221 LR 0800-0930 (CN 21-223-001) LB 1340-1750 MW (CN 21-223-101) LB 1340-1750 TTh (CN 21-223-102)	4 Staff
CH 315 Quantitative Analysis Preq: CH 103 or CH 107, or CH 104 and CH 105 Credit is not allowed for both CH 315 and CH 317. LR 0950-1120 (CN 21-315-001) LB 1340-1750 MW (CN 21-315-101) LB 1340-1750 TTh (CN 21-315-102)	4 Staff
CH 431 Physical Chemistry I Preq: CH 107, MA 202, PY 203 or PY 208 Coreq: MA 301 0800-0930 (CN 21-431-001)	3 Staff
CH 499 Senior Research in Chemistry Preq: Three years chemistry Hours arranged (CN 21-499-001)	1-3 Staff
CH 699 Chemical Research Preq: Graduate standing in chemistry Hours arranged (CN 21-699-001)	Credits Arranged Staff

*Students preregistering for this course must list one of the laboratory sections listed immediately following the lecture section.

SECOND SESSION

CH 101 General Chemistry I	4
Req: MA 111 or equivalent strongly recommended	
LR 0800-0930 (CN 21-101-001)	Staff
LB 1340-1750 MW (CN 21-101-101)	
(CN 21-101-102)	
(CN 21-101-103)	
CH 103 General Chemistry II	4
Req: CH 101	
LR 0950-1120 (CN 21-103-001)	Staff
LB 1340-1750 TTh (CN 21-103-101)	
(CN 21 103-102)	
CH 107 Principles of Chemistry	4
Req: CH 101 with a grade of C or better	
LR 0950-1120 (CN 21 107-001)	Staff
LB 1340-1750 TTh (CN 21-107-101)	
(CN 21-107-102)	
CH 223 Organic Chemistry II	4
Req: CH 221	
LR 0950-1120 (CN 21-223-001)	Staff
LB 1340-1750 MW (CN 21-223 101)	
(CN 21-223-102)	
(CN 21-223 103)	
CH 433 Physical Chemistry II	3
Req: CH 431 and MA 301	
0800-0930 (CN 21 433 001)	Staff
CH 499 Senior Research in Chemistry	1 3
Req: Three years chemistry	
Hours arranged (CN 21-499 001)	Staff
CH 699 Chemical Research	Credits Arranged
Req: Graduate standing in chemistry	
Hours arranged (CN 21-699-001)	Staff

Civil Engineering

FIRST SESSION

CE 202 Introduction to Civil Engineering	2
Req: MA 201	
LR 1000 1100 MWF (CN 22 202 001)	
LB 1000-1115 TTh (CN 22 202-101)	Staff

CE 325 Structural Analysis	3
Preq: ESM 301	
Offered only in a 10-week sequence. Students should register for three semester hours at registration for First Session only.	
LR 0800-0850 MWF (CN 22-325-001)	
LB 0800-0920 TTh (CN 22-325-101)	Staff
CE 326 Structural Engineering I	4
Preq: CE 325	
Offered only in a 10-week sequence. Students should register for four semester hours at registration for First Session only.	
LR 0800 0915 MWF (CN 22-326-001)	
LB 0800-0930 TTh (CN 22-326-101)	Staff
CE 332 Materials of Construction	3
Preq: MAT 200	
LR 1100-1200 (CN 22-332-001)	
LB 1340-1620 MW (CN 22-332-101)	Staff
CE 498 Special Problems in Civil Engineering	1-3
Preq: Senior standing in CE or CEC	
Hours arranged (CN 22-498-001)	
CE 598 Civil Engineering Projects	1-6
Hours arranged (CN 22-598-001)	
CE 698 Special Topics in Civil Engineering	1-3
Preq: Graduate standing	
Hours arranged (CN 22-698-001)	
CE 699 Civil Engineering Research	Credits Arranged
Hours arranged (CN 22-699-001)	
Staff	
SECOND SESSION	
CE 507 Airphoto Analysis I	3
Preq: Senior standing	
0800-1010 (CN 22-507-001)	Wahls
CE 598 Civil Engineering Projects	1-6
Hours arranged (CN 22-598-001)	
CE 698 Special Topics in Civil Engineering	1-3
Preq: Graduate standing	
Hours arranged (CN 22-698-001)	
CE 699 Civil Engineering Research	Credits Arranged
Hours arranged (CN 22-699-001)	
Staff	

Computer Science

FIRST SESSION

CSC 101 Introduction to Programming LR 0800-0900 (CN 23-101-001) LB 1520-1650 TTh (CN 23-101-101)	3 Staff
CSC 102 Programming Concepts Preq: CSC 101 0800-0930 (CN 23-102-001)	3 Williams
CSC 111 Algorithmic Languages I Coreq: MA 102 1200-1300 (CN 23-111-001)	2 Lewis
CSC 201 Basic Computer Organization and Assembly Language Preq: CSC 101 or CSC 111 1200-1330 (CN 23-201-001)	3 Staff
CSC 302 Introduction to Numerical Methods Preq: CSC 101 or CSC 111 Coreq: MA 301 or MA 312 1340-1510 (CN 23-302-001)	3 Lewis
CSC 311 Data Structures Preq: CSC 102 and CSC 201 0950-1120 (CN 23-311 001)	3 Tharp
CSC 322 Applied Algebraic Structures Preq: MA 405 0800-0930 (CN 23-322-001)	3 Robbins
CSC 499 Undergraduate Research in Computer Science Preq: Consent of instructor Hours arranged (CN 23-499-001)	1-6 Staff

Crop Science

FIRST SESSION

*CS (HS, GN) 542 Plant Breeding Field Procedures Preq: CS (HS, GN) 541 Hours arranged (CN 24-542-001) *Conducted on an arranged basis during the entire summer. Students should register for the course first session only.	2 Caldwell
CS 591 Special Problems Preq: Consent of instructor Hours arranged (CN 24-591-001)	Credits Arranged Staff
CS 699 Research Preq: Graduate standing Hours arranged (CN 24-699-001)	Credits Arranged Staff

SECOND SESSION**CS 414 Weed Science**

4

Preq: CH 220

LR 0900-1200 (CN 24-414-001)

LB 1300-1800 TTh (CN 24-414-101)

July 10-28 Three week course

Worsham

Refer to section on Special Three-Week Session for Adult and Community College Educators in the front of this booklet for registration information.

CS 591 Special Problems

Credits Arranged

Preq: Consent of instructor.

Hours arranged (CN 24-591-001)

Staff

CS 699 Research

Credits Arranged

Preq: Graduate standing.

Hours arranged (CN 24-699-001)

Staff

Design**FIRST SESSION****DN 432 Environmental Assessment and Design Field Workshop**

3

Preq: DN 221/223 or DN 232

0800-1700 (CN 26-432-001)

(Note: Undergraduate students must also preregister for 2 credits of DN 495 B, and graduate students must also preregister for 2 credits of LAR 595-G.)

DN 494A Internship in Design

*3-6

Preq: Junior standing and approval of program director

Hours arranged (CN 26-494-001)

Loss

DN 494-B Internship in Design

*3-6

Preq: Junior standing and approval of program director

Hours arranged (CN 26-494-002)

Sullivan

DN 494C Internship in Design

*3-6

Preq: Junior standing and approval of program director

Hours arranged (CN 26-494-003)

Foote

*Note: Maximum of six credit hours for DN 494

DN 495A* Independent Study in Design

*1-3

Preq: Junior standing and approval of program director and core chairman.

Hours arranged (CN 26-495-001)

Loss

DN 495B* Independent Study in Design

*1-3

Preq: Junior standing and approval of program director and core chairman

Hours arranged (CN 26-495-002)

Sullivan

DN 495C* Independent Study in Design

*1-3

Preq: Junior standing and approval of program director and core chairman

Hours arranged (CN 26-495-003)

Foote

*Note: Maximum of six credit hours for DN 495

Students *may not* preregister for these courses. Courses may be added on Registration Day, May 23, 1978.**SECOND SESSION****DN 494A Internship in Design**

*3-6

Preq: Junior standing and approval of program director

Hours arranged (CN 26-494-001)

Loss

DN 494B Internship in Design	*3-6
Preq: Junior standing and approval of program director	
Hours arranged (CN 26-494-002)	Sullivan
*Note: Maximum of six credit hours for DN 494	
DN 495A* Independent Study in Design	*1-3
Preq: Junior standing and approval of program director and core chairman	
Hours arranged (CN 26-495-001)	Loss
DN 495B* Independent Study in Design	*1-3
Preq: Junior standing and approval of program director and core chairman	
Hours arranged (CN 26-495-002)	Sullivan
*Note: Maximum of six credit hours for DN 495	
Students <i>may not</i> preregister for these courses. Courses may be added on Registration Day, July, 5, 1978.	

Economics and Business

FIRST SESSION

EB 201 Economics I	3
0800-0930 (CN 27-201-001)	Knoeber
0800-0930 (CN 27 201-002)	Fearn
0950-1120 (CN 27-201 003)	McElroy
1140-1310 (CN 27-201-004)	Fisher
EB 202 Economics II	3
Preq: EB 201	
0950-1120 (CN 27-202-001)	Ball
EB 301 Production and Prices	3
Preq: MA 112 and EB 201 or EB 212	
0950-1120 (CN 27-301-001)	Knoeber
EB 302 Aggregate Economic Analysis: Theory and Policy	3
Preq: EB 201 and MA 112	
0800-0930 (CN 27-302-001)	McElroy
EB 304 Financial Institutions	3
Preq: EB 201	
0950-1120 (CN 27-304-001)	Fisher
EB 332 Industrial Relations	3
Preq: EB 201 or 212	
0950-1120 (CN 27-332-001)	Fearn
EB (ST) 350 Economics and Business Statistics	3
Preq: MA 112, EB 201, EB 202 or equivalent	
0800-0930 (CN 27-350-001)	Wilson
EB 448 International Economics	3
Preq: EB 301	
0800-0930 (CN 27-448-001)	Ball
EB 490 Senior Seminar in Economics	3
Preq: EB 301 and 302 and 350 or ST 311 (plus two courses from list of restricted EB electives).	
0950-1120 (CN 27-490-001)	Wilson

EB 501 Price Theory	3
Preq: MA 112 and EB 301	
0800-0930 (CN 27-501-001)	Holthauser
EB 598 Topical Problems in Economics	1-6
Preq: Consent of instructor	
Hours arranged (CN 27-598-001)	Staff
*EB 649 Monetary Aspects of International Trade	3
Preq: EB 502	
0950-1120 MWF (CN 27-649-001)	Grennes
June 5-July 28 Eight week course	
*Students must follow normal <i>first summer session</i> preregistration and registration procedures for this course.	
EB 699 Research in Economics	Credits Arranged
Preq: Graduate standing.	
Hours arranged (CN 27-699-001)	Staff
Economics and Business	
SECOND SESSION	
EB 201 Economics I	3
0800-0930 (CN 27-201-001)	Aharony
0800-0930 (CN 27-201-002)	Staff
0950-1120 (CN 27-201-003)	Staff
EB 202 Economics II	3
Preq: EB 201	
0950-1120 (CN 27-202-001)	Staff
EB 301 Production and Prices	3
Preq: MA 112 and EB 201 or EB 212	
0800-0930 (CN 27-301-001)	Staff
EB 302 Aggregate Economic Analysis: Theory and Policy	3
Preq: EB 201 and MA 112	
0950-1120 (CN 27-302-001)	Lapp
EB 304 Financial Institutions	3
Preq: EB 201	
0800-0930 (CN 27-304-001)	Staff
EB 420 Corporation Finance	3
Preq: EB 201 or 212, and ACC 260	
0950-1120 (CN 27-420-001)	Aharony
EB 490 Senior Seminar in Economics	3
Preq: EB 301 and 302 and 350 or ST 311 (plus two courses from list of restricted EB electives)	
1140-1310 (CN 27-490-001)	Staff
EB 502 Income and Employment Theory	3
Preq: MA 112, EB 301 and 302.	
1140-1310 (CN 27-502-001)	Lapp
EB 598 Topical Problems in Economics	1-6
Preq: Consent of instructor	
Hours arranged (CN 27-598-001)	Staff

EB 699 Research in Economics
Prq: Graduate standing
Hours arranged (CN 27-699-001)

Credits Arranged

Education

FIRST SESSION

ED 344 School and Society Prq: Junior or senior standing 0950-1120 (CN 28-344-001)	3 Serow
ED 451 Teaching Secondary School Reading Prq: Admission to teacher certification program 0910-1010 (CN 28-451-001)	2 Hanish
ED 496 Senior Seminar in Education Prq: Consent of instructor Hours arranged (CN 28-496-001)	1-3 Staff
*ED 508 Severe and Profound Mental Retardation Prq.: ED 531 or consent of instructor Coreq: ED 508 may be taken concurrently with ED 531 1610-1900 TTh (CN 28-508-001) May 16-June 29, Six week course	3 Hasselbring
ED 510 Adult Education: History, Philosophy, Contemporary Nature Prq: Graduate standing 0800-0930 (CN 28-510-001)	3 Glass
*ED 530 Theories and Techniques of Counseling Prq: Six hours ED or PSY Coreq: ED 520 or equivalent 1610-1900 TTh (CN 28-530-001) May 16-June 29 Six week course	3 Locke
*ED 533 Group Counseling Prq.: ED 530 1610-1900 MW (CN 28-533-001) May 15-June 28 Six week course	3 Locke
*ED 558 Resource Teaching in Special Education Prq.: ED 506 or consent of instructor 1610-1900 MW (CN 28 558-001) May 15 June 28 Six week course	3 Mahmoud
ED 559 Learning Concepts and Theories Applied to Adult and Community College Education Prq: Six hours ED 1140-1310 (CN 28-559-001)	3 Glass
ED 570 Foundations of Mathematics Education Prq: ED 471 or equivalent 1830-2030 (CN 28-570-001)	3 Kolb
ED 596 Topical Problems in Adult and Community College Education Prq: Graduate standing Hours arranged (CN 28-596-001)	Credits Arranged Staff

**Do Not Preregister* for this course. Refer to section on Early Summer Sessions for Teachers in the front of this booklet for registration instructions.

ED 597 Special Problems in Education	1-3
Preq: Consent of instructor and graduate standing	
Hours arranged (CN 28-597-001)	Staff
*ED 598N Special Problems in Curriculum and Instruction: Teaching N.C.-U.S. History	3
Preq: Six hours ED or PSY	
0800-1200 (CN 28-598-002)	
June 19-June 30 Two week course	Parramore
*Students must follow normal <i>first summer session</i> preregistration and registration procedures for this course.	
*ED 598P Special Problems in Curriculum and Instruction: Programmed Instruction	3
Preq: Six hours ED or PSY	
1610-1900 TTh (CN 28-598-001)	
May 16-June 29 Six week course	Cole
<i>*Do Not Preregister</i> for this course. Refer to section on Early Summer Sessions for Teachers in the front of this booklet for registration instructions.	
ED 599 Research Projects in Education	1-3
Preq: Consent of instructor, ED 532 or equivalent	
Hours arranged (CN 28-599-001)	Staff
ED 621 Internship in Education	3-9
Preq: Nine credit hours in graduate level courses and consent of instructor	
Hours arranged (CN 28-621-001)	Staff
ED 699 Thesis and Dissertation Research	Credits Arranged
Preq: 15 hours, consent of instructor	
Hours arranged (CN 28-699-001)	Staff
SECOND SESSION	
ED (PHI) 304 Philosophy of Education	3
0800-0930 (CN 28-304-001)	Bryan
ED 422 Methods of Teaching Vocational Industrial/Technical Education	3
Preq: ED 327, ED 205	
0800-0930 (CN 28-422-001)	Smith
ED 483 An Introduction to Instructional Media	3
Preq: Advanced undergraduate standing	Ball
0730-0900 (CN 28-483-001)	
1140-1310 (CN 28-483-002)	Staff
ED 496 Senior Seminar in Education	1-3
Preq: Consent of instructor	
Hours arranged (CN 28-496-001)	Staff
ED 500 The Community College System	3
Preq: Graduate or advanced undergraduate standing	
0800-0930 (CN 28-500-001)	Gragg
ED 504 Principles and Practices of Introduction to Vocations	3
Preq: Twelve hours education	
0950-1120 (CN 28-504-001)	Cox
ED 506 Education of Exceptional Children	3
Preq: Six hours ED or PSY	
1140-1310 (CN 28-506-001)	Staff

ED 512 Teaching Mathematics in Elementary and Junior High School	3
Preq: ED 471 or equivalent 0950-1120 (CN 28-512-001)	Watson
ED 520 Introduction to Guidance and Counseling	3
Preq: 6 hours ED or PSY 0950-1120 (CN 28-520-001)	Staff
ED 522 Career Exploration	3
Preq: ED 344, graduate standing or consent of instructor 0800-0930 (CN 28-522-001)	Cox
ED 524 Information Processes and Group Guidance	3
Preq: 6 hours ED or PSY 1140-1310 (CN 28-524-001)	Gerler
ED 526 Teaching in College	3
Preq: None. Designed for graduate students not in ED 1340 1510 (CN 28-526-001)	Simpson
ED 528 Cooperative Occupational Education	3
Preq: Consent of instructor 0950-1120 (CN 28-528-001)	Smith
ED 532 Introduction to Educational Inquiry	3
Preq: Graduate standing 1140-1310 (CN 28-532-001)	Staff
*ED 538 Instructional Strategies in Adult and Community College Education	
Preq: ED 559 and graduate standing 1020-1300 (CN 28-538-001) July 10-28—Three week course	Leagans
*ED 541 Community Education	3
Preq: ED 503 and SOC 513 1800-2050 (CN 28-541-001) July 10-28—Three week course	Compton
*ED 593-C Special Problems in Agriculture Education - Teaching Contemporary Vocational Agriculture	3
Preq: ED 411 or equivalent 1340-1650 (CN 28-593-001) July 10-28—Three week course	Jewell
ED 594 Special Problems in Science Teaching	3
Preq: ED 476 or equivalent 0950-1120 (CN 28 594 001)	Simpson
*ED 596 Topical Problems in Adult and Community College Education	Credits Arranged
Preq: Graduate standing Hours arranged (CN 28-596-001)	Staff
*ED 596A Topical Problems in Adult and Community College Education—Issues in Aging	3
Preq: Graduate standing 1800-2200 (CN 28-596-002) July 10-28 Three week course	Maddox

*Refer to section on Special Three Week Summer Session for Adult and Community College Educators in the front of this booklet for registration instructions.

*ED 596B Topical Problems in Adult and Community College Education— The Future of Adult Education	2
Preq: Graduate standing 1340-1630 (CN 28-596-003) July 10-21—Two week course	Ziegler
*ED 596C Topical Problems in Adult and Community College Education— Adults' Learning Projects: Research and Innovations	1
Preq: Graduate standing 1340-1630 (CN 28-596-004) July 10-14—One week course	Tough
ED 596D Topical Problems in Adult and Community College Education— A Social Systems Perspective on Adult Education	1
Preq: Graduate standing 1340-1630 (CN 28-596-005) July 17-21 One week course	
*ED 596F Topical Problems in Adult and Community College Education— Policy Analysis in Adult Education	1
Preq: Graduate standing 1340-1630 (CN 28-596-006) July 24-28 One week course	Ziegler
*ED 597U Special Problems in Education: Use of the Arts in the Basic Curriculum	3
Preq: Consent of instructor and graduate standing 0800-1200 (CN 28-597-002) July 10-July 28—Three week course	Hyatt
ED 597 Special Problems in Education	1-3
Preq: Consent of instructor and graduate standing Hours arranged (CN 28-597-001)	Staff
ED 598M Special Problems in Curriculum and Instruction: Media Handicapped	
Preq: 6 hours of ED/PSY, consent of instructor 0950-1120 (CN 28-598-001)	Ball
ED 598R Special Problems in Curriculum and Instruction: Materials for Developmen- tal Reading	3
Preq: 6 hours ED/PSY 0800-0930 (CN 28-598-002)	Staff
ED 598T Special Problems in Curriculum and Instruction: Teaching Gifted and Talented	3
Preq: Advanced undergraduate and graduate 6 hours ED/PSY 1340-1620 (CN 28-598-003) July 6-July 27—Three week course	Aubrecht
ED 599 Research Projects in Education	1-3
Preq: Consent of instructor, ED 532 or equivalent Hours arranged (CN 28-599-001)	Staff
ED 601 Administrative Concepts and Theories Applied to Adult and Community College Education	3
Preq: ED 600 or a comparable course(s) on Organizational Theory 1140-1310 (CN 28-601-001)	Gragg
*Refer to section on Special Three Week Summer Session for Adult and Community College Educators in the front of this booklet for registration instructions.	

ED 605 Education and Supervision of Teachers of Mathematics and Science	3
Preq: ED 470 or 475 or equivalent, ED 570 or 592 or 594. 1340-1510 (CN 28-605-001)	Watson
ED 621 Internship in Education	3 9
Preq: Nine credit hours in graduate level courses and consent of instructor Hours arranged (CN 28-621-001)	Staff
ED 633 Development and Coordination of School Guidance Programs	3
Preq: ED 520 or ED 534, ED 524, ED 530, or consent of instructor Coreq: ED 533 1340-1510 (CN 28-633-001)	Gerler
ED 699 Thesis and Dissertation Research	Credits Arranged
Preq: 15 hours; consent of instructor Hours arranged (CN 28-699-001)	Staff

Electrical Engineering

FIRST SESSION

EE 302 Numerical Applications in Electrical Engineering	3
Preq: EE 202 0730-0900 (CN 30-302-001)	Eckels
EE 331 Principles of Electrical Engineering	3
Preq: MA 201, PY 208 Not available to undergraduates in electrical engineering. 0800-0930 (CN 30-331-001)	Peterson
EE 332 Principles of Electrical Engineering	3
Preq: EE 331. Not available to undergraduates in electrical engineering. 0730-0900 (CN 30-332-001)	Barclay
EE 520 Fundamentals of Logic Systems	3
Preq: EE 340, B average in EE and MA 0950 1120 (CN 30 520-001)	Staff
EE 699 Electrical Engineering Research	Credits Arranged
Preq: Graduate standing in electrical engineering and approval of advisor Hours arranged (CN 30-699-001)	Staff

SECOND SESSION

EE 350 Electric Power Utilization in Manufacturing Processes	3
Preq: PY 212, MA 201. Not available to undergraduates in electrical engineering. LR 0950-1120 (CN 30-350-001) LB 1340-1620 Th (CN 30-350-101)	Easter Easter
EE 699 Electrical Engineering Research	Credits Arranged
Preq: Graduate standing in electrical engineering and approval of advisor Hours arranged (CN 30-699-001)	Staff

Engineering (General Courses)

FIRST SESSION

E 101 Engineering Graphics I	2
0800-0930 (CN 31-101-001) 0950-1120 (CN 31-101-002)	Staff Staff

SECOND SESSION

E 101 Engineering Graphics I	2
0800-0930 (CN 31-101-001)	Staff
0950-1120 (CN 31-101-002)	Staff

Engineering Science and Mechanics**FIRST SESSION**

ESM 200 Introduction to Mechanics	3
Coreq: MA 202	
0800-0930 (CN 34-200-001)	Staff
ESM 205 Principles of Engineering Mechanics	3
Preq: PY 205	
Coreq: MA 202	
0950-1120 (CN 34-205-001)	Howland
1140-1310 (CN 34-205-002)	Edwards
ESM 301 Mechanics of Solids	3
Preq: ESM 200	
0800-0930 (CN 34-301-001)	Staff
ESM 303 Fluid Mechanics I	3
Preq: ESM 200 or ESM 205	
0950-1120 (CN 34-303-001)	Hassan
1140-1310 (CN 34-303-002)	Afify
ESM 305 Engineering Dynamics	3
Preq: ESM 205	
Coreq: MA 301	
0800-0930 (CN 34-305-001)	Howland
ESM 307 Solid Mechanics I	
Preq: ESM 205	
Coreq: MA 301	
0950-1120 (CN 34-307-001)	Edwards
SECOND SESSION	
ESM 200 Introduction to Mechanics	3
Coreq: MA 202	
0800-0930 (CN 34-200-001)	Staff
ESM 205 Principles of Engineering Mechanics	3
Preq: PY 205	
Coreq: MA 202	
0800-0930 (CN 34-205-001)	Daggerhart
0950-1120 (CN 34-205-002)	Bailey
ESM 301 Mechanics of Solids	3
Preq: ESM 200	
0950-1120 (CN 34-301-001)	Staff
ESM 303 Fluid Mechanics I	3
Preq: ESM 200 or ESM 205	
0950-1120 (CN 34-303-001)	Mulligan
ESM 305 Engineering Dynamics	3
Preq: ESM 205	
Coreq: MA 301	
0800-0930 (CN 34-305-001)	Staff

English

FIRST SESSION

ENG 111 Composition and Rhetoric 3
General University requirement.
0800-0930 (CN 36-111-001) Staff
0950-1120 (CN 36-111-002) Staff
1140-1310 (CN 36-111-003) Staff

ENG 112 Composition and Reading 3
General University requirement.
Prq: A grade of C or better in ENG 111.
0800-0930 (CN 36-112-001) Staff
0950-1120 (CN 36-112-002) Staff
1140-1310 (CN 36-112-003) Staff

NOTE: *The prerequisite for all advanced courses in writing, language, or literature is the completion of ENG 111 and ENG 112. Desirable preparation for literature courses of the 300 level or above is ENG 205, ENG 206, ENG 207, ENG 208 or any semester of ENG 261, ENG 262 or ENG 265, ENG 266.*

ENG 205 Studies in Great Works of Literature 3
The courses ENG 205, ENG 206, ENG 207, and ENG 208 are designed for students not enrolled in Humanities and Social Sciences.
0800-0930 (CN 36-205-001) Staff
0950-1120 (CN 36-205-002) Staff

ENG 208 Studies in Fiction 3
The courses ENG 205, ENG 206, ENG 207, and ENG 208 are designed for students not enrolled in Humanities and Social Sciences.
0800-0930 (CN 36-208-001) Staff
0950-1120 (CN 36-208-002) Staff
1140-1310 (CN 36-208-003) Staff

ENG 261 English Literature I 3
0800-0930 (CN 36-261-001) Staff
0950-1120 (CN 36-261-002) Staff

ENG 265 American Literature I 3
0800-0930 (CN 36-265-001) Staff
0950-1120 (CN 36-265-002) Staff
1140-1310 (CN 36-265-003) Staff

ENG 321 The Communication of Technical Information 3
0800-0930 (CN 36-321-001) Dandridge
0950-1120 (CN 36-321-002) Dandridge

ENG 323 Creative Writing: Fiction 3
1140-1310 (CN 36-323-001) Owen

ENG 371 The Modern Novel 3
0950-1120 (CN 36-371-001) Moore

ENG 376 Fantasy and Science Fiction 3
0950-1120 (CN 36-376-001) Meyers

ENG 449 The Renaissance 3
0950-1120 (CN 36-449-001) Young

ENG 468 American Romanticism 3
0800-0930 (CN 36-468-001) Anhorn

ENG 651 Chaucer	3
Prq: ENG 451 or equivalent and graduate standing 0800-0930 (CN 36-651-001)	Meyers
ENG 655 American Romantic Period	3
Prq: Graduate standing 0950-1120 (CN 36-655-001)	Stein
ENG 698 Bibliography and Methodology	3
Prq: Graduate standing with approved thesis topic Hours arranged (CN 36-698-001)	Thesis Director
ENG 699 Research in Literature	3
Prq: Consent of graduate adviser Hours arranged (CN 36-699-001)	Thesis Director
SECOND SESSION	
ENG 111 Composition and Rhetoric	3
General University requirement. 0800-0930 (CN 36-111-001)	Staff
0950-1120 (CN 36-111-002)	Staff
1140-1310 (CN 36-111-003)	Staff
ENG 112 Composition and Reading	3
General University requirement. Prq: A grade of C or better in ENG 111.	
0800-0930 (CN 36-112-001)	Staff
0950-1120 (CN 36-112-002)	Staff
1140-1310 (CN 36-112-003)	Staff
NOTE: <i>The prerequisite for all advanced courses in writing, language, or literature is the completion of ENG 111 and ENG 112. Desirable preparation for literature courses of the 300 level or above is ENG 205, ENG 206, ENG 207, ENG 208 or any semester of ENG 261, ENG 262 or ENG 265, ENG 266.</i>	
ENG 205 Studies in Great Works of Literature	3
The courses ENG 205, ENG 206, ENG 207, and ENG 208 are designed for students not enrolled in Humanities and Social Sciences.	
0800-0930 (CN 36-205-001)	Staff
0950-1120 (CN 36-205-002)	Staff
ENG 208 Studies in Fiction	3
The courses ENG 205, ENG 206, ENG 207, and ENG 208 are designed for students not enrolled in Humanities and Social Sciences.	
0800-0930 (CN 36-208-001)	Staff
0950-1120 (CN 36-208-002)	Staff
1140-1310 (CN 36-208-003)	Staff
ENG 215 Principles of News and Article Writing	3
0800-0930 (CN 36-215-001)	Cockshutt
ENG 262 English Literature II	3
0800-0930 (CN 36-262-001)	Staff
0950-1120 (CN 36-262-002)	Staff
ENG 266 American Literature II	3
0800-0930 (CN 36-266-001)	Staff
0950-1120 (CN 36-266-002)	Staff
1140-1310 (CN 36-266-003)	Staff

ENG 315 Reporting and Editing	3
Preq: ENG 215	
0950-1120 (CN 36-315-001)	Cockshutt
ENG 321 The Communication of Technical Information	3
0800-0930 (CN 36-321-001)	Seidel
0950-1120 (CN 36-321-002)	Seidel
ENG 346 Literature of the Western World I	3
1140-1310 (CN 36-346-001)	Smith
ENG 391 Introduction to American Folklore	3
0950-1120 (CN 36-391-001)	Betts
ENG 469 American Realism and Naturalism	3
0950-1120 (CN 36-469-001)	West
ENG 485 Shakespeare	3
0800-0930 (CN 36-485 001)	Baines
ENG 660 Victorian Poetry	3
Preq: Graduate standing	
0950-1120 (CN 36-660-001)	Harrison
ENG 675 20th-Century American Prose	3
Preq: Graduate standing	
0800-0930 (CN 36-675-001)	Reynolds
ENG 698 Bibliography and Methodology	3
Preq: Graduate standing with approved thesis topic	
Hours arranged (CN 36 698-001)	Thesis Director
ENG 699 Research in Literature	3
Preq: Consent of graduate adviser	
Hours arranged (CN 36-699 001)	Thesis Director

Entomology

FIRST SESSION

ENT 590 Special Problems	Credits Arranged
Preq: Consent of instructor	
Hours arranged (CN 38-590-001)	Staff
ENT 699 Research	Credits Arranged
Preq: Graduate standing	
Hours arranged (CN 38-699-001)	Staff

SECOND SESSION

ENT (ZO) 425 General Entomology	3
Preq: ZO 201 or ZO 202	
LR 0800-0900 MWF (CN 38-425-001)	Meyer
LB 1340-1650 MW (CN 38-425-101)	Meyer
ENT 590 Special Problems	Credits Arranged
Preq: Consent of instructor	
Hours arranged (CN 38-590-001)	Staff
ENT 699 Research	Credits Arranged
Preq: Graduate standing	
Hours arranged (CN 38-699-001)	Staff

Food Science

FIRST SESSION

FS 491 Special Topics in Food Science	1-6
Preq: Senior standing or consent of instructor	
Hours arranged (CN 39-491-001)	Staff
FS 591 Special Problems in Food Science	Maximum 6
Preq: Senior or graduate standing	
Hours arranged (CN 39-591-001)	Staff
FS 691 Special Research Problems in Food Science	Credits Arranged
Hours arranged (CN 39-691-001)	Staff
FS 699 Research in Food Science	Credits Arranged
Hours arranged (CN 39-699-001)	Staff

SECOND SESSION

FS 591 Special Problems in Food Science	Maximum 6
Preq: Senior or graduate standing	
Hours arranged (CN 39-591-001)	Staff
FS 691 Special Research Problems in Food Science	Credits Arranged
Hours arranged (CN 39-691-001)	Staff
FS 699 Research in Food Science	Credits Arranged
Hours arranged (CN 39-699-001)	Staff

French

FIRST SESSION

FLF 101 Elementary French I	3
0800-0930 (CN 64-101-001)	Stewart
0800-0930 (CN 64-101-002)	Paschal
FLF 102 Elementary French II	3
Preq: FLF 101	
1140-1310 (CN 64-102-001)	Hammond
FLF 201 Intermediate French I	3
Preq: FLF 102 or FLF 105	
0950-1120 (CN 64-201-001)	Stewart
0950-1120 (CN 64-201-002)	Hammond

SECOND SESSION

FLF 102 Elementary French II	3
Preq: FLF 101	
0800-0930 (CN 64-102-001)	Stack
FLF 202 Intermediate French II	3
Preq: FLF 201	
0950-1120 (CN 64-202-001)	Staff
FLF 401 French for Graduate Students	3
Not open to undergraduates.	
0950-1120 (CN 64-401-001)	Stack

German

FIRST SESSION

FLG 101 Elementary German I 3
0800-0930 (CN 65-101-001) Rollins

FLG 201 Intermediate German I 3
Preq: FLG 102
0950-1120 (CN 65-201-001) Rollins

FLG 401 German for Graduate Students 3
Not open to undergraduates
0800-0930 (CN 65-401-001) Simonsen

SECOND SESSION

FLG 102 Elementary German II 3
Preq: FLG 101
0800-0930 (CN 65-102-001) Tucker

Spanish

FIRST SESSION

FLS 101 Elementary Spanish I 3
0950-1120 (CN 68-101-001) Jezierski
0950-1120 (CN 68-101-002) Cofresi

FLS 102 Elementary Spanish II 3
Preq: FLS 101
0800-0930 (CN 68-102-001) Kelly

FLS 105 Intensive Elementary Spanish 6
Equivalent of FLS 101 plus FLS 102
0950-1250 (CN 68-105-001) Kelly, Confresi

FLS 201 Intermediate Spanish I 3
Preq: FLS 102 or FLS 105
1140-1310 (CN 68-201-001) Jezierski

SECOND SESSION

FLS 102 Elementary Spanish II 3
Preq: FLS 101
0950-1120 (CN 68-102-001) Feeny
0950-1120 (CN 68-102-002) Myers

FLS 201 Intermediate Spanish I 3
Preq: FLS 102 or FLS 105
0800-0930 (CN 68-201-001) Myers

(CN 68-201-002) Special three week study tour to Mexico City, July 3 July 24. For information call Dr. John Kelly, Department of Foreign Languages and Literatures 737-2476.

FLS 202 Intermediate Spanish II 3
Preq: FLS 201
1140-1310 (CN 68-202-001) Feeny

Forestry

FIRST SESSION

FOR 204 Silviculture	2
Summer Camp	
0800-1700 (CN 40-204-001)	Staff
FOR 263 Dendrology	1
Summer Camp	
Preq: FOR 210, FOR 211	
0800-1700 (CN 40-263-001)	Staff
FOR 264 Forest Protection	2
Summer Camp	
Preq: Junior standing in FOR	
0800-1700 (CN 40-264-001)	Staff
FOR 274 Mapping and Mensuration	4
Summer Camp	
Preq: FOR 272	
0800-1700 (CN 40-274-001)	Steensen, Jervis
FOR 284 Utilization	1
Summer Camp	
Preq: Junior standing in FOR	
0800-1700 (CN 40-284-001)	Staff
FOR 491 Senior Problems in Forest Resources	Credits Arranged
Preq: Consent of department	
Hours arranged (CN 40-491-001)	Staff
FOR 591 Forestry Problems	Credits Arranged
Preq: Advanced undergraduate or graduate standing	
Hours arranged (CN 40-591-001)	Staff
FOR 692 Advanced Forest Management Problems	Credits Arranged
Preq: Graduate standing	
Hours arranged (CN 40-692-001)	Staff
FOR 699 Problems and Research	Credits Arranged
Preq: Graduate standing	
Hours arranged (CN 40-699-001)	Staff
SECOND SESSION	
FOR 491 Senior Problems in Forestry	Credits Arranged
Preq: Consent of department	
Hours arranged (CN 40-491-001)	Staff
FOR 591 Forestry Problems	Credits Arranged
Preq: Advanced undergraduate or graduate standing	
Hours arranged (CN 40-591-001)	Staff
FOR 692 Advanced Forest Management Problems	Credits Arranged
Preq: Graduate standing	
Hours arranged (CN 40-692-001)	Staff
FOR 699 Problems and Research	Credits Arranged
Preq: Graduate standing	
Hours arranged (CN 40-699-001)	Staff

Genetics

FIRST SESSION

GN 301 Genetics in Human Affairs 3
Preq: None. (Students should have sophomore standing.)
0800-0930 (CN 41-301-001) McKenzie

GN 411 The Principles of Genetics 3
Preq: BS 100, junior standing
1140 1310 (CN 41-411-001) Staff

GN 695 Special Problems in Genetics 1-3
Preq: Advanced graduate standing, consent of instructor
Hours arranged (CN 41-695-001) Staff

GN 699 Research Credits Arranged
Preq: Graduate standing, consent of instructor
Hours arranged (CN 41-699-001) Staff

SECOND SESSION

GN 695 Special Problems in Genetics 1-3
Preq: Advanced graduate standing, consent of instructor
Hours arranged (CN 41-695-001) Staff

GN 699 Research Credits Arranged
Preq: Graduate standing, consent of instructor
Hours arranged (CN 41-699-001) Staff

Geology

FIRST SESSION

GY 593 Advanced Topics in Geology 1 6
Preq: Consent of instructor
Hours arranged (CN 43-593-001) Staff

GY 699 Geological Research Credits Arranged
Preq: Consent of instructor
Hours arranged (CN 43-699-001) Staff

SECOND SESSION

GY 465 Geologic Field Camp 6
Preq: GY 351, GY 440, GY 452
Hours arranged (CN 43-465-001) Aldrich

GY 593 Advanced Topics in Geology 1-6
Preq: Consent of instructor
Hours arranged (CN 43-593-001) Staff

GY 699 Geological Research Credits Arranged
Preq: Consent of instructor
Hours arranged (CN 43-699-001) Staff

History

FIRST SESSION

HI 205 Western Civilization Since 1400 3
0800-0930 (CN 44-205-001) Greenlaw

HI 207 The Ancient World to 180 A.D. 3
0950-1120 (CN 44-207-001) Newby

HI 208 The Middle Ages 1140-1310 (CN 44-208-001)	3 Newby
HI 233 The World in the 20th Century 0950-1120 (CN 44-233-001)	3 Greenlaw
HI 243 United States, 1845-1914 0800-0930 (CN 44-243-001)	3 Constantin
HI 244 United States Since 1914 0800-0930 (CN 44-244-001) 0950-1120 (CN 44-244-002)	3 Collins Constantin
HI 264 Modern East Asia: 1800 to Present 0950-1120 (CN 44-264-001)	3 Beers
HI 450 The United States in Prosperity and Depression, 1919-1939 Preq: Three hours of history 0950-1120 (CN 44-450-001)	3 Collins
HI 454 U.S. Foreign Relations Preq: Three hours of history 1140-1310 (CN 44-454-001)	3 Beers
HI 498 Special Topics in History Preq: Three hours of history Hours arranged (CN 44-498-001)	1-6 Riddle
HI 552 Application of Principles of Administration of Archives Preq: Six hours of advanced history Hours arranged (CN 44-552-001)	3 Mitchell
HI 598 Special Topics in History Preq: Six hours of advanced history Hours arranged (CN 44-598-001)	1-6 Wheeler
HI 699 Research in History Preq: Six hours of advanced history Hours arranged (CN 44-699-001)	1-6 Staff
SECOND SESSION	
HA 201 History of Art from Ancient Greece 0800-0930 (CN 50-201-001)	3 Ketchiff
HA 202 History of Art from the Renaissance 0950-1120 (CN 50-202-001)	3 Ketchiff
HI 205 Western Civilization Since 1400 0800-0930 (CN 44-205-001)	3 Banker
HI 208 The Middle Ages 0950-1120 (CN 44-208-001)	3 Banker
HI 233 The World in the 20th Century 0950-1120 (CN 44-233-001)	3 Brown
HI 243 United States, 1845-1914 0800-0930 (CN 44-243-001)	3 King
HI 244 United States Since 1914 0950-1120 (CN 44-244-001) 1140-1310 (CN 44-244-002)	3 Patton King

HI 298P Special Topics in History - The Age of Washington and Dubois: 1890-1920 3 1140-1310 (CN 44-298-001)	Patton
HI 463 North Carolina to 1860 Preq: Three hours of history 0800 0930 (CN 44-463-001)	3 Elliot
HI 498 Special Topics in History Preq: Three hours of history Hours arranged (CN 44-498-001)	1-6 Riddle
HI 545 The American Civil War Preq: Six hours of advanced history 0950-1120 (CN 44-545-001)	3 Harris
HI 598 Special Topics in History Preq: Six hours of advanced history Hours arranged (CN 44 598 001)	1-6 Mitchell
HI 699 Research in History Preq: Six hours of advanced history Hours arranged (CN 44-699-001)	1 6 Staff

Horticultural Science

FIRST SESSION

HS 212 Ornamental Plants Preq: BS 100 0950-1310 (CN 45-212-001)	3 Southall
HS 342 Landscape Horticulture 0800-0930 (CN 45-342-001)	3 Green
HS 352 Landscape Design Presentation 1340-1440 (CN 45-352 001)	2 Green
HS 495 Special Topics in Horticultural Science Hours arranged (CN 45-495-001)	1-6 Staff
HS 599 Research Principles Preq: Consent of the instructor Hours arranged (CN 45-599 001)	1-6 Staff
HS 699 Research Preq: Graduate standing in horticulture, consent of advisory committee chairman Hours arranged (CN 45 699-001)	Credits Arranged Staff

SECOND SESSION

*HS 440 Greenhouse Management Preq: BS 100, SSC 200 LR 0900-1100 (CN 45-440-001) LB 1300-1600 (CN 45-440-101) July 10-28—Three week course	3 Love
*Refer to section on Special Three-Week Summer Session for Adult and Community College Educators in the front of this booklet for registration instructions. Due to field trips involved, students should take no other courses during July 10-28.	
HS 495 Special Topics in Horticultural Science Hours arranged (CN 45-495-001)	1-6 Staff

HS 599 Research Principles	1-6
Prq: Consent of instructor	
Hours arranged (CN 45-599-001)	Staff
HS 699 Research	Credits Arranged
Prq: Graduate standing in horticulture, consent of advisory committee chairman	
Hours arranged (CN 45-699-001)	Staff

Industrial Arts

FIRST SESSION

IA 351 General Ceramics	3
1020-1300 (CN 47-351-001)	Troxler
IA 368 Technical Drawing II	3
Prq: E 101 or IA 113	
0730-1010 (CN 47-368-001)	Troxler

SECOND SESSION

IA 115 Wood Processing I	3
0730-1010 (CN 47-115-001)	Young
IA 590 Laboratory Problems in Industrial Arts	3
Prq: Senior standing, consent of instructor	
1340-1620 (CN 47-590-001)	Young

Industrial Engineering

FIRST SESSION

IE 495 Project Work in Industrial Engineering	1-6
Prq: Senior standing	
Hours arranged (CN 49-495-001)	Staff
IE 591 Project Work	1-6
Prq: Graduate or senior standing	
Hours arranged (CN 49-591-001)	Staff
IE 651 Special Studies in Industrial Engineering	Credits Arranged
Prq: Graduate standing	
Hours arranged (CN 49-651-001)	Staff
IE 694 Advanced Problems in Ergonomics	3
Prq: IE(PSY) 540, ST 515	
0900-1200 MWF (CN 49-694-001)	Pearson
IE 699 Industrial Engineering Research	Credits Arranged
Prq: Graduate standing	
Hours arranged (CN 49-699-001)	Staff

SECOND SESSION

IE 495 Project Work in Industrial Engineering	1-6
Prq: Senior standing	
Hours arranged (CN 49-495-001)	Staff
IE 591 Project Work	1-6
Prq: Graduate or senior standing	
Hours arranged (CN 49-591-001)	Staff

IE 651 Special Studies in Industrial Engineering	Credits Arranged
Preq: Graduate standing	
Hours arranged (CN 49 651-001)	Staff
IE 699 Industrial Engineering Research	Credits Arranged
Preq: Graduate standing	
Hours arranged (CN 49-699-001)	Staff

Landscape Architecture

FIRST SESSION

LAR 595 Independent Study	*1-3
Preq: Graduate standing and approval of program director and advisory committee required	
Hours arranged (CN 52-595-001)	Sullivan
*Students may not preregister for this course. Course may be added on Registration Day, May 23, 1978.	

SECOND SESSION

LAR 595 Independent Study	*1 3
Preq: Graduate standing and approval of program director and advisory committee required	
Hours arranged (CN 52 595-001)	Sullivan

LAR 698* Advanced Research Projects	2-6
Preq: Two LAR 600 studios and consent of instructor	
Hours arranged (CN 52-698-001)	Sullivan

*Students *may not* preregister for these courses. Courses may be added on Registration Day, July 5, 1978.

Marine Sciences

FIRST SESSION

MAS 699 Research in Marine Sciences	Credits Arranged
Preq: Graduate standing and consent of advisory committee	
Hours arranged (CN 53-699-001)	

SECOND SESSION

MAS 693 Special Topics in Marine Sciences	3
Preq: Graduate standing and consent of instructor	
1520-1630 (CN 53-693-001)	Snyder Conn

MAS 699 Research in Marine Sciences	Credits Arranged
Preq: Graduate standing and consent of advisory committee	
Hours arranged (CN 53-699-001)	Staff

Materials Engineering

FIRST SESSION

MAT 200 Mechanical Properties of Structural Materials	2
Preq: CH 105 and the first course in ESM.	
LR 1020-1120 MWF (CN 61 200-001)	Fahmy
LB 1340-1750 TTh (CN 61-201-101)	
(CN 61-201-102)	Fahmy, Staff

MAT 201 Structure and Properties of Engineering Materials	3
Prereq: CH 105	
LR 1200 1300 (CN 61-201-001)	Fahmy
LB 1340-1750 MWF (CN 61-201-101)	Staff
(CN 61-201-102)	Staff
MAT 495 Materials Engineering Projects	1-6
Prereq: Junior or senior standing	
Hours arranged (CN 61-495-001)	Staff
MAT 595 Advanced Materials Experiments	1-3
Prereq: Senior or graduate standing	
Hours arranged (CN 61-595-001)	Staff
MAT 699 Materials Engineering Research	Credits Arranged
Hours arranged (CN 61-699-001)	Staff

SECOND SESSION

MAT 201 Structure and Properties of Engineering Materials	3
Prereq: CH 105	
LR 1200 1300 (CN 61-201-001)	Fahmy
LB 1340 1750 MWF (CN 61-201-101)	Staff
(CN 61-201-102)	Staff
MAT 495 Materials Engineering Projects	1-6
Prereq: Junior or senior standing	
Hours arranged (CN 61-495-001)	Staff
MAT 595 Advanced Materials Experiments	1-3
Prereq: Senior or graduate standing	
Hours arranged (CN 61-595-001)	Staff
MAT 692 Special Topics in Materials Engineering	1-3
Prereq: Graduate standing	
Hours arranged (CN 61-692-001)	Staff
MAT 699 Materials Engineering Research	Credits Arranged
Hours arranged (CN 61-699-001)	Staff

Mathematics

FIRST SESSION

MA 102 Analytic Geometry and Calculus I	4
Prereq: MA 111 or equivalent completed in high school	
Credit in both MA 102 and MA 112 is not allowed.	
0730-0940 (CN 54-102-001) (CN 54-102-002)	Staff
1020-1230 (CN 54-102-003) (CN 54-102-004)	Staff
MA 111 Algebra and Trigonometry	4
0730-0940 (CN 54-111-001) (CN 54-111-002)	Staff
1020-1230 (CN 54-111-003) (CN 54-111-004)	Staff
MA 112 Analytic Geometry and Calculus A	4
Prereq: MA 111 or equivalent completed in high school	
Credit in both MA 102 and MA 112 is not allowed.	
0730-0940 (CN 54-112-001) (CN 54-112-002)	Staff
1020-1230 (CN 54-112-003) (CN 54-112-004)	Staff
MA 113 Introduction to Calculus	4
Prereq: MA 111 or equivalent completed in high school	
Credit is not allowed in more than one of MA 102, MA 112, MA 113.	
MA 113 may not be substituted for MA 102 as a curricular requirement.	
1020-1230 (CN 54-113-001)	Staff

MA 114 Introduction to Finite Mathematics with Applications	3
Prq: MA 111 or equivalent completed in high school 0800-0930 (CN 54-114-001)	Staff
MA 115 Introduction to Contemporary Mathematics	3
Credit in MA 115 is not allowed if student has credit for MA 102, MA 112, MA 114, or MA 111. Credit towards graduation is not given for MA 115 in most curricula. 1140-1310 (CN 54-115-001)	Staff
MA 122 Mathematics of Finance	3
Prq: MA 111 or MA 115 or equivalent completed in high school 0950-1120 (CN 54-122-001)	Staff
MA 201 Analytic Geometry and Calculus II	4
Prq: MA 102 0730-0940 (CN 54-201-001) (CN 54-201-002) (CN 54-201 003) 1020 1230 (CN 54-201-004) (CN 54-201-005) (CN 54-201 006)	Staff Staff
MA 202 Analytic Geometry and Calculus III	4
Prq: MA 201 0730-0940 (CN 54-202-001) (CN 54-202-002) 1020-1230 (CN 54 202 003) (CN 54 202-004)	Staff Staff
MA 301 Applied Differential Equations I	3
Prq: MA 202 or equivalent Credit is not allowed in both MA 301 and MA 312 0800-0930 (CN 54-301-001) (CN 54 301-002) 1140-1310 (CN 54-301-003) (CN 54-301-004)	Staff Staff
MA 401 Applied Differential Equations II	3
Prq: MA 301 or MA 312 0950-1120 (CN 54-401 001)	Staff
MA 405 Introduction to Linear Algebra and Matrices	3
Prq: One year of calculus 0800-0930 (CN 54-405-001) 1140-1310 (CN 54-405-002)	Staff Staff
MA 421 Introduction to Probability	3
Prq: One year of calculus 1140-1310 (CN 54-421-001)	Staff
MA 501 Advanced Math for Engineers and Scientists I	3
Prq: MA 301 or equivalent 0950-1120 (CN 54-501-001)	Staff
MA 511 Advanced Calculus I	3
Prq: MA 301 or MA 312 1140-1310 (CN 54-511-001)	Staff
MA 512 Advanced Calculus II	3
Prq: MA 301 or MA 312 1140-1310 (CN 54-512-001)	Staff
MA 513 Introduction to Complex Variables	3
Prq: MA 425 or MA 511 0800-0930 (CN 54-513 001)	Staff
MA 622 Linear Transformations and Matrix Theory	3
Prq: MA 405 0950-1120 (CN 54-622-001)	Staff
MA 681 Special Topics in Real Analysis	1-6
Hours arranged (CN 54-681-001)	Staff

MA 683 Special Topics in Algebra	1-6
Hours arranged (CN 54-683-001)	Staff
MA 699 Research	Credits Arranged
Hours arranged (CN 54-699-001)	Staff
SECOND SESSION	
MA 102 Analytic Geometry and Calculus I	4
Prereq: MA 111 or equivalent completed in high school	
Credit in both MA 102 and MA 112 is not allowed.	
0730-0940 (CN 54-102-001)	Staff
1020-1230 (CN 54-102-002) (CN 54 102-003)	Staff
MA 111 Algebra and Trigonometry	4
0730-0940 (CN 54-111-001) (CN 54-111-002) (CN 54 111-003)	Staff
1020-1230 (CN 54-111-004) (CN 54-111-005)	Staff
MA 112 Analytic Geometry and Calculus A	4
Prereq: MA 111 or equivalent completed in high school	
Credit in both MA 102 and MA 112 is not allowed.	
0730-0940 (CN 54-112-001)	Staff
1020-1230 (CN 54-112-002)	Staff
MA 113 Introduction to Calculus	4
Prereq: MA 111 or equivalent completed in high school	
Credit is not allowed in more than one of MA 102, MA 112, MA 113.	
MA 113 may not be substituted for MA 102 as a curricular requirement.	
0730-0940 (CN 54-113-001)	Staff
MA 114 Introduction to Finite Mathematics with Applications	3
Prereq: MA 111 or equivalent completed in high school	
0800-0930 (CN 54 114-001)	Staff
MA 115 Introduction to Contemporary Mathematics	3
Credit in MA 115 is not allowed if student has credit for MA 102, MA 112, MA 114, or MA 111.	
Credit towards graduation is not given for MA 115 in most curricula.	
0800-0930 (CN 54-115-001)	Staff
MA 116 Topics in Contemporary Mathematics	3
Prereq: MA 115 or equivalent completed in high school	
Credit in MA 116 is not allowed if student has credit for MA 102, MA 112, or MA 114.	
1140-1310 (CN 54-116 001)	Staff
MA 201 Analytic Geometry and Calculus II	4
Prereq: MA 102	
0730-0940 (CN 54-201-001) (CN 54-201-002)	Staff
1020-1230 (CN 54-201-003) (CN 54-201-004) (CN 54-201-005)	Staff
MA 202 Analytic Geometry and Calculus III	4
Prereq: MA 201	
0730-0940 (CN 54-202-001) (CN 54-202-002)	Staff
1020-1230 (CN 54-202-003)	Staff
MA 212 Analytic Geometry and Calculus B	3
Prereq: MA 112	
1140-1310 (CN 54-212-001) (CN 54-212-002)	Staff
MA 301 Applied Differential Equations I	3
Prereq: MA 202 or equivalent	
Credit is not allowed in both MA 301 and MA 312	
0800-0930 (CN 54-301-001) (CN 54-301-002)	Staff
1140-1310 (CN 54-301-003) (CN 54-301-004)	Staff

MA 401 Applied Differential Equations II Preq: MA 301 or MA 312 0950-1120 (CN 54-401-001)	3 Staff
MA 403 Introduction to Modern Algebra Preq: One year of calculus 0800-0930 (CN 54-403 001)	3 Staff
MA 405 Introduction to Linear Algebra and Matrices Preq: One year of calculus 1140-1310 (CN 54-405-001) (CN 54-405-002)	3 Staff
MA 433 History of Mathematics Preq: One year of calculus 0950-1120 (CN 54-433 001)	3 Staff
MA 502 Advanced Mathematics for Engineers and Scientists II Preq: MA 301 or equivalent 0950-1120 (CN 54-502-001)	3 Staff
MA (OR,IE) 505 Mathematical Programming I (See operations research, page 62.)	3
MA 510 Selected Topics in Mathematics for Secondary Teachers Preq: Graduate standing 0800-0930 (CN 54-510-001)	3 Staff
MA 512 Advanced Calculus II Preq: MA 301 or MA 312 1140-1310 (CN 54-512-001)	3 Staff
MA (ST) 541 Theory of Probability I Preq: MA 425 or MA 511 1340-1510 (CN 54-541-001)	3 Staff
MA 681 Special Topics in Real Analysis Hours arranged (CN 54-681-001)	1-6 Staff
MA 683 Special Topics in Algebra Hours arranged (CN 54-683-001)	1-6 Staff
MA 699 Research Hours arranged (CN 54-699-001)	Credits Arranged Staff

Mechanical and Aerospace Engineering

FIRST SESSION

MAE 216 Elements of Mechanical Engineering Preq: ESM 205, PY 208, or PY 202 0800-0930 (CN 55-216-001)	3 Hart
MAE 301 Engineering Thermodynamics I Preq: MA 202, PY 208, or PY 202 0800-0930 (CN 55-301-001) 0950-1120 (CN 55-301-002)	3 Moore Hodgson
MAE 305 Mechanical Engineering Laboratory Coreq: MAE 301 1340-1750 TTh (CN 55-305-001)	1 Batton
MAE 315 Dynamics of Machines Preq: MAE 216, ESM 305 0950-1120 (CN 55-315 001)	3 Reiter

MAE 586 Project Work in Mechanical Engineering 1-6
Hours arranged (CN 55-586-001) Zorowski

MAE 699 Mechanical Engineering Research Credits Arranged
Preq: Graduate standing in mechanical engineering and consent of adviser
Hours arranged (CN 55-699-001) Zorowski

SECOND SESSION

MAE 301 Engineering Thermodynamics I 3
Preq: MA 202, PY 208, or PY 202
0950-1120 (CN 55-301-001) Knight

MAE 302 Engineering Thermodynamics II 3
Preq: MAE 301
0800-0930 (CN 55-302-001) Perkins

MAE 306 Mechanical Engineering Laboratory II 1
Preq: MAE 305 and EE 331
1340-1750 TTh (CN 55-306-001) Batton

MAE 586 Project Work in Mechanical Engineering 1-6
Hours arranged (CN 55-586-001) Zorowski

MAE 699 Mechanical Engineering Research Credits Arranged
Preq: Graduate standing in mechanical engineering and consent of adviser
Hours arranged (CN 55-699-001) Zorowski

Meteorology

FIRST SESSION

MY 444 Meteorological Laboratory II 4
Preq: MY 443
1020-1230 (CN 56-444-001) Watson

MY 521 The Upper Atmosphere 3
Preq: Consent of staff and MY 411
0800-0930 (CN 56-521-001) Tsui

MY 593 Advanced Topics 1-6
Preq: Consent of staff
Hours arranged (CN 56-593-001) Staff

MY 699 Research Credits Arranged
Preq: Graduate standing and consent of advisory committee
Hours arranged (CN 56-699-001) Staff

SECOND SESSION

MY 593 Advanced Topics 1-6
Preq: Consent of staff
Hours arranged (CN 56-593-001) Staff
Hours arranged (CN 56-593-002) [Surface Energy Budget(3)] Riordan

MY 699 Research Credits Arranged
Preq: Graduate standing and consent of advisory committee
Hours arranged (CN 56-699-001) Staff

Microbiology

FIRST SESSION

MB 490 Special Studies in Microbiology Credits Arranged
Preq: Three courses in microbiology and consent of instructor
Hours arranged (CN 57-490-001) Staff

MB 692 Special Problems in Microbiology Credits Arranged
Hours arranged (CN 57-692-001) Staff

MB 699 Microbiology Research Credits Arranged
Hours arranged (CN 57-699-001) Staff

SECOND SESSION

MB 490 Special Studies in Microbiology Credits Arranged
Preq: Three courses in microbiology and consent of instructor
Hours arranged (CN 57-490 001) Staff

MB 692 Special Problems in Microbiology Credits Arranged
Hours arranged (CN 57-692-001) Staff

MB 699 Microbiology Research Credits Arranged
Hours arranged (CN 57-699-001) Staff

Music

FIRST SESSION

Music 200 Understanding Music 3
0800-0930 (CN 69-200 001) Bliss
0950-1120 (CN 69-200-002) Adcock

Music 210 A Survey of Music in America 3
0800-0930 (CN 69-210-001) Adcock

Music 320 Music of the 20th Century 3
0950-1120 (CN 69-320 001) Bliss

Music 495-I Special Topics in Music - Basic Keyboard Improvisation 3
0800-0930 (CN 69 495-001) Milne
0950-1120 (CN 69-495-002) Milne

SECOND SESSION

Music 200 Understanding Music 3
0950-1120 (CN 69-200-001) Petters

Music 220 Music of the 19th Century 3
0800-0930 (CN 69-220-001) Petters

Nuclear Engineering

FIRST SESSION

NE 491 Nuclear Engineering Topics I 1-4
Preq: Consent of instructor
Hours arranged (CN 70-491-001) Staff

SECOND SESSION

NE 201 Applications of Nuclear Energy 3
Preq: PY 208
0950-1120 (CN 70-201-001) Stam

NE 491 Nuclear Engineering Topics I 1-4
 Preq: Consent of instructor
 Hours arranged (CN 70 491-001) Staff

Nutrition

FIRST AND SECOND SESSIONS

NTR 699 Research in Nutrition Credits Arranged
 Preq: Graduate standing
 Hours arranged (CN 71 699 001) Staff

Operations Research

FIRST SESSION

OR 501 Introduction to Operations Research 3
 Preq: MA 405, MA 421
 1525-1815 MWF (CN 73-501-001) Van Nunen

OR 591 Special Topics in Operations Research 1-3
 Preq: Consent of instructor
 Hours arranged (CN 73 591-001) Staff

OR 691 Special Topics in Operations Research 3
 Preq: OR 501, OR 505, IE 505, MA 505
 Hours Arranged (CN 73 691 001) Staff

OR 699 Project in Operations Research 1-3
 Preq: Variable
 Hours arranged (CN 73-699-001) Staff

SECOND SESSION

OR (IE, MA)505 Mathematical Programming I 3
 Preq: MA 405
 1525 1815 MWF (CN 73 505 001) Gardner

OR 591 Special Topics in Operations Research 1-3
 Preq: Consent of instructor
 Hours arranged (CN 73 591 001) Staff

OR 691 Special Topics in Operations Research 3
 Preq: OR 501, OR 505, (IE 505, MA 505)
 Hours arranged (CN 73-691-001) Staff

OR 699 Project in Operations Research 1-3
 Preq: Variable
 Hours arranged (CN 73-699-001) Staff

Pest Management

SECOND SESSION

***PM 415 Principles of Pest Management** 3
 Preq: ENT 312, PP 315, CS 414
 Hours arranged (CN 76-415-001) Haning
 July 10-28 Three week course

*Refer to section on Special Three-Week Summer Session for Adult and Community College Educators in the front of this booklet for registration instructions.

Philosophy

FIRST SESSION

PHI 201 Logic 3
0800-0930 (CN 74-201-001) Metzger
0950-1120 (CN 74-201-002) Metzger

PHI 205 Problems and Types of Philosophy 3
0800-0930 (CN 74-205-001) Bredenberg
0950-1120 (CN 74-205-002) Regan

PHI 306 Philosophy of Art 3
0950-1120 (CN 74-306-001) Bredenberg

PHI 307 Morality and Human Happiness 3
0800-0930 (CN 74-307-001) Regan

SECOND SESSION

PHI 201 Logic 3
0800-0930 (CN 74-201-001) Levin
0950-1120 (CN 74-201-002) Levin

PHI 205 Problems and Types of Philosophy 3
0800-0930 (CN 74-205-001) Carter
0950-1120 (CN 74-205-002) VanDeVeer
1140-1310 (CN 74-205-003) VanDeVeer

PHI 300 Early Western Philosophy 3
0950-1120 (CN 74-300-001) Carter

PHI (ED) 304 Philosophy of Education 3
0800-0930 (CN 74-304-001) Bryan

Physical Education

FIRST SESSION

PE 112 Beginning Swimming I 1
1300-1400 (CN 75-112-001) Wall
1400-1500 (CN 75-112-002) Wall

PE 221 Intermediate Swimming 1
1300-1400 (CN 75-221-001) Berle
1400-1500 (CN 75-221-002) Berle

PE 242 Badminton 1
1020-1120 (CN 75-242-001) Leath

PE 243 Bowling 1
1420-1520 (CN 75-243-001) Leath
(\$25.00 Bowling alley fee)

PE 245 Golf 1
0910-1010 (CN 75-245-001) Cates
1020-1120 (CN 75-245-002) Cates
1200-1300 (CN 75-245-003) Cates
1300-1400 (CN 75-245-004) Briggson
1400-1500 (CN 75-245-005) Briggson

PE 249 Tennis I	1
0910-1010 (CN 75-249-001)	Cheek
1020-1120 (CN 75-249-002)	Wall
1200-1300 (CN 75-249-003)	Leath
1300-1400 (CN 75-249-004)	Leath
1400-1500 (CN 75-249-005)	Cheek
PE 251 Target Archery	1
1020-1120 (CN 75-251-001)	Cheek
1300-1400 (CN 75-251-002)	Cheek
1400-1500 (CN 75-251-003)	Cates
PE 265 Softball	1
1500-1600 (CN 75-265-001)	Wall
PE 269 Volleyball	1
1200-1300 (CN 75-269-001)	Berle
PE 280 Emergency Medical Care	2
0950-1120 (CN 75-280-001)	Briggson
SECOND SESSION	
PE 112 Beginning Swimming I	1
1300-1400 (CN 75-112-001)	Scott
PE 221 Intermediate Swimming	1
1400-1500 (CN 75-221-001)	Scott
PE 242 Badminton	1
1020-1120 (CN 75-242-001)	Keating
PE 243 Bowling	1
1320-1420 (CN 75-243-001)	Keating
\$25.00 Bowling alley fee	
PE 245 Golf	1
0930-1030 (CN 75-245-001)	Scott
1030-1130 (CN 75-245-002)	Scott
1300-1400 (CN 75-245-003)	Gwyn
1400-1500 (CN 75-245-004)	Gwyn
PE 249 Tennis I	1
1020-1120 (CN 75-249-001)	Shannon
1200-1300 (CN 75-249-002)	Keating
1300-1400 (CN 75-249-003)	Shannon
1400-1500 (CN 75-249-004)	Shannon
PE 251 Target Archery	1
1020-1120 (CN 75-251-001)	Gwyn
1200-1300 (CN 75-251-002)	Shannon
PE 269 Volleyball	1
1200-1300 (CN 75-269-001)	Gwyn

Physics

FIRST SESSION

PY 205 General Physics	4
Preq: MA 102	
LR 0800-0930 (CN 77-205-001)	Staff
LR 0950-1120 (CN 77-205-002)	Staff
LB 1250-1500 MW (CN 77-205-101)	
LB 1510-1720 MW (CN 77-205-102)	
LB 1250-1500 TTh (CN 77-205-103)	
LB 1510-1720 TTh (CN 77-205-104)	
PY 208 General Physics	4
Preq: PY 205	Staff
LR 0800-0930 (CN 77-208-001)	
LB 1250-1500 MW (CN 77-208-101)	
LB 1250-1500 TTh (CN 77-208-102)	Staff
PY 211 General Physics	4
Preq: MA 111 or MA 116	
LR 0800-0930 (CN 77-211-001)	Staff
LR 0950-1120 (CN 77-211-002)	Staff
LB 1250-1500 MW (CN 77-211-101)	
LB 1510-1720 MW (CN 77-211-102)	
LB 1250-1500 TTh (CN 77-211-103)	
PY 212 General Physics	4
Preq: PY 211	
LR 0800-0930 (CN 77-212-001)	Staff
LB 1250-1500 MW (CN 77-212-101)	
LB 1250-1500 TTh (CN 77-212-102)	
PY 221 College Physics	5
Preq: MA 111 or MA 115	
1020-1300 (CN 77-221-001)	Staff
PY 231 Physics for Non-Scientists	3
For Humanities and Social Sciences students only	
0950-1120 (CN 77-231-001)	Staff
PY 499 Special Problems in Physics	1-3
Preq: Consent of department	
Hours arranged (CN 77-499-001)	Staff
PY 599 Senior Research	3
Preq: Senior honors program standing, except with special permission	
Hours arranged (CN 77-599-001)	Staff
PY 699 Research	Credits Arranged
Hours arranged (CN 77-699-001)	Staff

SECOND SESSION

PY 205 General Physics	4
Preq: MA 102	Staff
LR 0800-0930 (CN 77-205-001)	
LB 1250-1500 MW (CN 77-205-101)	
LB 1510-1720 MW (CN 77-205-102)	
LB 1250-1500 TTh (CN 77-205-103)	
LB 1510-1720 TTh (CN 77-205-104)	

PY 208 General Physics 4
 Preq: PY 205
 LR 0800-0930 (CN 77-208-001) Staff
 LR 0950-1120 (CN 77-208-002) Staff
 LB 1250-1500 MW (CN 77-208-101)
 LB 1510-1720 MW (CN 77-208-102)
 LB 1250-1500 TTh (CN 77-208-103)
 LB 1510-1720 TTh (CN 77-208-104)

PY 211 General Physics 4
 Preq: MA 111 or MA 116 Staff
 LR 0950-1120 (CN 77-211-001)
 LB 1250-1500 MW (CN 77-211-101)
 LB 1250-1500 TTh (CN 77-211-102)

PY 212 General Physics 4
 Preq: PY 211
 LR 0800-0930 (CN 77-212-001) Staff
 LR 0950-1120 (CN 77-212-002) Staff
 LB 1250-1500 MW (CN 77-212-101)
 LB 1510-1720 MW (CN 77-212-102)
 LB 1250-1500 TTh (CN 77-212-103)
 LB 1510-1720 TTh (CN 77-212-104)

PY 221 College Physics 5
 Preq: MA 111 or MA 115 Staff
 1020-1300 (CN 77-221-001)

PY 499 Special Problems in Physics 1-3
 Preq: Consent of department
 Hours arranged (CN 77-499-001) Staff

PY 599 Senior Research 3
 Preq: Senior honors program standing, except with special permission
 Hours arranged (CN 77-599-001) Staff

PY 699 Research Credits Arranged
 Hours arranged (CN 77-699-001) Staff

Plant Pathology

FIRST SESSION

PP 595 Special Problems in Plant Pathology 1-6
 Preq: Consent of instructor
 Hours arranged (CN 79-595-001) Staff

PP 699 Research in Plant Pathology Credits Arranged
 Preq: Graduate standing and consent of instructor
 Hours arranged (CN 79-699-001) Staff

SECOND SESSION

PM 415 Principles of Pest Management
 (See page 62)

PP 503 Identification of Plant Pathogenic Fungi 3
 Preq: Mycology or one advanced course in plant pathology
 LR 0730-0930 TTh (CN 79-503-001) Grand
 LB 1020-1230 and 1340-1750 TTh (CN 79-503-101)

PP 595 Special Problems in Plant Pathology 1-6
 Preq: Consent of instructor
 Hours arranged (CN 79-595-001) Staff

PP 699 Research in Plant Pathology
Preq: Graduate standing and consent of instructor
Hours arranged (CN 79-699-001)

Credits Arranged
Staff

Political Science

FIRST SESSION

PS 201 The American Governmental System 3
0800-0930 (CN 80-201-001) Mastro
1140-1310 (CN 80-201-002) Hurwitz

PS 206 Local Governmental Systems 3
0950-1120 (CN 80-206-001) McClain

PS 344 Soviet Politics 3
0950-1120 (CN 80-344-001) Mastro

PS 402 Campaigns & Elections in the American Political System 3
Preq: PS 201
0950 1120 (CN 80-402-001) Hurwitz

PS 498 Special Topics in Political Science 3
Preq: Six hours of political science
Hours arranged (CN 80-498-001) Staff

PS 511 Public Administration 3
Preq: PS 271 or consent of instructor
0800-0930 (CN 80-511 001) McClain

PS 571 Scope and Methods of Political Science 3
Preq: PS 201 or consent of instructor
1140-1310 (CN 80-571-001) Russel

PS 616E Seminar in Program Evaluation 3
Preq: PS 516 or consent of instructor
1900-2200 TTh (CN 80-616-001) Russel

PS 621E Collective Negotiations in the Public Service 3
Preq: PS 511 or consent of instructor
1900 2200 MW (CN 80 621-001) Caldwell

PS 691 Internship in Public Affairs 1 3
Preq: Minimum of 9 hours graduate work
Hours arranged (CN 80-691-001) Staff

PS 696 Seminar in Politics 2 4
Preq: Advanced graduate standing
Hours arranged (CN 80 696-001) Staff

PS 699 Research in Politics 3
Preq: Graduate standing
Hours arranged (CN 80-699-001) Staff

SECOND SESSION

PS 201 The American Governmental System 3
0950-1120 (CN 80-201-001) Staff

PS 206 Local Governmental Systems 1140-1310 (CN 80-206-001)	3 Staff
PS 236 Introduction to Global Politics 0800-0930 (CN 80-236-001)	3 Soroos
PS 331 U. S. Foreign Policy 0950-1120 (CN 80-331-001)	3 Staff
PS 406 Politics and Policies of American State Governments 0800-0930 (CN 80-406-001)	3 Williams
PS 496 Governmental Internship Hours arranged (CN 80-496-001)	3 Staff
PS 498 Special Topics in Political Science Preq: Six hours of political science Hours arranged (CN 80-498-001)	3 Staff
PS 516 Public Policy Analysis Preq: Graduate standing, advanced undergraduate standing and consent of instructor 1140-1310 (CN 80-516-001)	3 Williams
PS 611E Public Personnel Administration Preq: PS 511 or consent of instructor 1900-2200 TTh (CN 80-611-001)	3 Caldwell
PS 612 The Budgetary Process Preq: Consent of instructor and at least 9 hours in the social sciences including a course in American government 0950-1120 (CN 80-612-001)	3 Swiss
PS 614 Seminar in Management Systems Preq: PS 571 or equivalent and have completed at least one semester full-time graduate work in MPA program or equivalent 1900-2200 MW (CN 80-614-001)	3 Swiss
PS 691 Internship in Public Affairs Preq: Minimum of 9 hours graduate work Hours arranged (CN 80-691-001)	1-3 Staff
PS 696 Seminar in Politics Preq: Advanced graduate standing Hours arranged (CN 80-696-001)	2-4 Staff
PS 699 Research in Politics Preq: Graduate standing Hours arranged (CN 80-699-001)	3 Staff
Poultry Science	
FIRST SESSION	
PO 495 Special Problems in Poultry Preq: Junior standing and consent of instructor Hours arranged (CN 81-495-001)	1-6 Prince
PO 698 Special Problems in Poultry Science Preq: Graduate standing Hours arranged (CN 81-698-001)	1-6 Prince
PO 699 Poultry Research Preq: Graduate standing Hours arranged (CN 81-699-001)	Credits Arranged Prince

SECOND SESSION

PO 495 Special Problems in Poultry Science	1-6
Preq: Junior standing and consent of instructor	
Hours arranged (CN 81-495-001)	Prince
PO 698 Special Problems in Poultry Science	1 6
Preq: Graduate standing	
Hours arranged (CN 81-698-001)	Prince
PO 699 Poultry Research	Credits Arranged
Preq: Graduate standing	
Hours arranged (CN 81-699-001)	Prince

Product Design

FIRST SESSION

PD 595 Independent Study	*1-3
Preq: Graduate standing and approval of program director and advisory committee required	
Hours arranged (CN 82-595-001)	Foote
*Students may not preregister for this course. Course may be added on Registration Day, May 23, 1978.	

SECOND SESSION

PD 595 Independent Study	*1-3
Preq: Graduate standing and approval of program director and advisory committee required	
Hours arranged (CN 82-595 001)	Foote

*Note: Credits six maximum in any program of work.

Students may not preregister for this course. Course may be added on Registration Day, July 5, 1978.

Psychology

FIRST SESSION

PSY 200 Introduction to Psychology	3
0800-0930 (CN 83-200-001)	Parker
0950-1120 (CN 83-200-002)	Cunningham
1140-1310 (CN 83-200-003)	Cunningham
PSY 210 Psychological Analysis Applied to Current Problems	3
Preq: PSY 200	
0800-0930 (CN 83-210-001)	Smith
PSY 300 Perception	3
Preq: PSY 200, introductory biological sciences, physics or chemistry recommended	
1520-1650 (CN 83-300-001)	Mershon
PSY 304 Educational Psychology	3
0800-0930 (CN 83-304-001)	Johnson
PSY 370 Psychology of Personality and Adjustment	3
Preq: PSY 200	
1140-1310 (CN 83-370-001)	Green
PSY 411 Social Psychology	
Preq: PSY 200	
0950-1120 (CN 83-411-001)	Staff

PSY 492 Seminar in Psychology	3
Preq: PSY 491 Only for majors in PSY, PEO, or HRD	
Hours arranged (CN 83-492-001)	Staff
PSY 493 Special Topics in Psychology	1-6
Preq: Consent of instructor	
Hours arranged (CN 83-498-001)	Staff
PSY 493 Special Topics in Psychology-Human Sexuality	3
Preq: Consent of instructor	
0950-1120 (CN 83-493-002)	Green
PSY 504 Advanced Educational Psychology	3
Preq: Six hours in psychology	
0800 1010 (CN 83-504-001)	Johnson
PSY 530 Abnormal Psychology	3
Preq: PSY 200 and PSY 302	
0800-0930 (CN 83-530-001)	Cortez
*PSY 576 Developmental Psychology	3
Preq: Nine hours in psychology, including PSY 475 or PSY 476	
1600 1900 M-W (CN 83-576-001)	
May 15-June 28 Six week course	Cortez
<i>*Do Not Pre-register for this course. Refer to section on Early Summer Sessions for Teachers in the front of this booklet for registration instructions.</i>	
PSY 599 Research Problems in Psychology	Credits Arranged
Preq: Consent of instructor	
Hours arranged (CN 83-599-001)	Staff
PSY 691 Special Topics in Psychology: Survey Research	3
Preq: Graduate standing and consent of instructor	
1600 1900 TTh CN 83-691-001)	Klein
PSY 693 Psychological Clinic Practicum	1-12
Preq: Nine hours in psychology	
Hours arranged (CN 83-693-001)	Cortez
PSY 699 Thesis and Dissertation Research	Credits Arranged
Preq: Graduate standing and consent of instructor	
Hours arranged (CN 83-699-001)	Staff
SECOND SESSION	
PSY 200 Introduction to Psychology	3
0800-0930 (CN 83-200-001)	Staff
PSY 304 Educational Psychology	3
0800-0930 (CN 83-304-001)	Miller
PSY 310 Learning and Motivation	3
Preq: PSY 200	
0800 0930 (CN 83-310-001)	Staff
PSY 320 Cognitive Processes	3
Preq: PSY 200	
0950-1120 (CN 83-320-001)	Chmielewski
PSY 475 Child Psychology	3
Preq: PSY 200 or PSY 304	
0950-1120 (CN 83-475-001)	Rawls

PSY 492 Seminar in Psychology	3
Preq: PSY 491. Only for majors in PSY, PEO, or HRD	
Hours arranged (CN 83-492-001)	Staff
PSY 493 Special Topics in Psychology—Psychology and the Law	3
Preq: PSY 200	
1140-1310 (CN 83-493-001)	Frederick
PSY 504 Advanced Educational Psychology	3
Preq: Six hours in psychology	
0800-0930 (CN 83 504-001)	Chmielewski
PSY 532 Psychological Aspects of Exceptionality	3
Preq: Consent of instructor	
1140-1310 (CN 83-532-001)	Rawls
PSY 535 Tests and Measurements	3
Preq: Six hours in psychology	
0800-0930 (CN 83-535-001)	Westbrook
0950-1120 (CN 83-535-002)	Westbrook
PSY 565 Organizational Psychology	3
Preq: Nine hours of psychology	
1600-1730 (CN 83-565-001)	Miller
PSY 599 Research Problems in Psychology	Credits Arranged
Preq: Consent of instructor	
Hours arranged (CN 83-599-001)	Staff
PSY 693 Psychological Clinic Practicum	1-12
Preq: Nine hours in psychology	
Hours arranged (CN 83-693-001)	Rawls
PSY 699 Thesis and Dissertation Research	Credits Arranged
Preq: Graduate standing and consent of instructor	
Hours arranged (CN 83-699-001)	Staff

Recreation Resources Administration

FIRST SESSION

RRA 152 Introduction to Recreation	3
0800-0930 (CN 85-152-001)	Warren
RRA 215 Maintenance and Operation I	3
Preq: RRA 152	
0950-1120 (CN 85-215-001)	Staff
RRA 475 Recreation and Park Internship	9
Preq: Senior status, RRA 359	
Hours arranged (CN 85-475-001)	McKnelly
Hours arranged (CN 85-475 002)	Staff
Hours arranged (CN 85-475-003)	Staff
RRA 591 Recreation Resources Problems	Credits Arranged
Preq: Advanced undergraduate or graduate status	
Hours arranged (CN 85-591-001)	Staff
RRA 692 Advanced Problems in Recreation	Credits Arranged
Preq: Twelve hours RRA	
Hours arranged (CN 85-692-001)	Staff

RRA 699 Research in Recreation	Credits Arranged
Preq: Twelve hours RRA	
Hours arranged (CN 85-699-001)	Staff
SECOND SESSION	
RRA 591 Recreation Resources Problems	Credits Arranged
Preq: Advanced undergraduate or graduate status	
Hours arranged (CN 85 591-001)	Staff
RRA 692 Advanced Problems in Recreation	Credits Arranged
Preq: Twelve hours RRA	
Hours arranged (CN 85 692 001)	Staff
RRA 699 Research in Recreation	Credits Arranged
Preq: Twelve hours RRA	
Hours arranged (CN 85-699 001)	Staff

Religion

FIRST SESSION

REL 300 Introduction to Religion	3
0800-0930 (CN 87-300-001)	Highfill
0950 1120 (CN 87 300 002)	Tolbert

REL 312 Christian Origins	3
0800-0930 (CN 87-312 001)	Tolbert

SECOND SESSION

REL 300 Introduction to Religion	3
0800-0930 (CN 87-300-001)	VanderKam
0950 1120 (CN 87-300-002)	VanderKam

Social Work

FIRST SESSION

SW 205 Social Welfare Policies and Issues	3
Preq: SW 203	
0950 1120 (CN 86-205 001)	Russell

SW 307 Social Welfare Programs and Delivery Systems	3
Preq: SW 205	
1140-1310 (CN 86-307-001)	Mackie

SW 406 Field Work I	6
Preq: SW 405	
Hours arranged (CN 86-406-001)	Mackie

SW 407 Field Work II	6
Preq: SW 406	
Hours arranged (CN 86-407-001)	Mackie

Sociology

FIRST SESSION

SOC 202 Principles of Sociology	3
0730-0900 (CN 92-202-001)	Dawson
0800-0930 (CN 92 202-002)	Schulman
0950-1120 (CN 92-202 003)	Thomson
1140 1310 (CN 92-202-004)	Staff

SOC 203 Current Social Problems 0950-1120 (CN 92-203-001)	3 Zingraff
SOC 204 Contemporary Family Life 0800-0930 (CN 92-204-001) 0800-0930 (CN 92-204-002) 0950-1120 (CN 92-204-003) 1140-1310 (CN 92-204-004)	3 Mustian Staff Mustian Mercer
SOC 241 Rural Society—U.S.A. 1140-1310 (CN 92-241-001)	3 Schulman
SOC 301 Human Behavior Preq: SOC 202 or PSY 200 0800-0930 (CN 92-301-001) 0950-1120 (CN 92-301-002) 1140-1310 (CN 92-301-003)	3 Staff Sawhney Sawhney
SOC 306 Criminology Preq: Three hours of sociology 1140-1310 (CN 92-306-001)	3 Zingraff
SOC 311 Community Relationships Preq: Three hours of sociology 0800-0930 (CN 92-311-001)	3 Thomson
SOC 416 Research Methods Preq: Senior standing, ST 311 or consent of instructor 0950-1120 (CN 92-416-001)	3 Dawson
SOC 498 Special Topics in Sociology Preq: Six hours of sociology above 200 level Hours arranged (CN 92-498-001)	1-6 Mayo
SOC 502 Society, Culture and Personality Preq: SOC 202 or equivalent 0800-0930 (CN 92-502-001)	3 Uzzell
SOC 503 Contemporary Sociology Preq: Graduate standing 1140-1310 (CN 92-503-001)	3 Uzzell
SOC 632 Sociology of the Family Preq: Graduate standing 0950-1120 (CN 92-632-001)	3 Mercer
SOC 699 Research in Sociology Preq: Consent of chairman of graduate study committee Hours arranged (CN 92-699-001)	Credits Arranged Mayo
SECOND SESSION	
SOC 202 Principles of Sociology 0730-0900 (CN 92-202-001) 0800-0930 (CN 92-202-002) 0950-1120 (CN 92-202-003) 1140-1310 (CN 92-202-004)	3 Staff Marsh McFarlane Staff
SOC 203 Current Social Problems 0950-1120 (CN 92-203-001)	3 Staff

SOC 204 Contemporary Family Life	3
0800-0930 (CN 92-204-001)	Staff
0950-1120 (CN 92-204-002)	Staff
0950-1120 (CN 92-204-003)	Troost
1140-1310 (CN 92-204-004)	Troost
SOC 301 Human Behavior	3
Prq: SOC 202 or PSY 200	
0800-0930 (CN 92-301-001)	Hyman
0950-1120 (CN 92-301-002)	Hyman
1140-1310 (CN 92-301-003)	McFarlane
SOC 305 Race Relations	3
Prq: Three hours of sociology	
0950-1120 (CN 92-305-001)	Della Fave
SOC 306 Criminology	3
Prq: Three hours of sociology	
0800-0930 (CN 92-306-001)	Austin
0950-1120 (CN 92-306-002)	Austin
SOC 425 Juvenile Delinquency	3
Prq: SOC 202, SOC 301 desirable	
0800-0930 (CN 92-425-001)	Della Fave
SOC 498 Special Topics in Sociology	1-6
Prq: Six hours of sociology above 200 level	
Hours arranged (CN 92-498-001)	Mayo
SOC 501 Leadership	3
Prq: SOC 202 or equivalent	
0800-0930 (CN 92-501-001)	Brisson
SOC 513 Community Organization and Development	3
Prq: SOC 202 or equivalent	
0950-1120 (CN 92-513-001)	Brisson
SOC 541 Social Systems and Planned Change	3
Prq: Three hours of sociology	
1140-1310 (CN 92-541-001)	Marsh
*SOC 591J Special Topics in Sociology: Change Agents in Social Action	1-6
Prq: Consent of instructor	
1020-1300 (CN 92-591-001)	Voland/Burton
July 10-28—Three week course	
*Refer to section on Special Three-Week Summer Session for Adult and Community College Educators in the front of this booklet for registration instructions.	
SOC 699 Research in Sociology	Credits Arranged
Prq: Consent of chairman of graduate study committee	
Hours arranged (CN 92-699-001)	Mayo
Soil Science	
FIRST SESSION	
SSC 590 Special Problems	Credits Arranged
Prq: SSC 200	
Hours arranged (CN 93-590-001)	Staff
SSC 699 Research	Credits Arranged
Prq: Graduate standing in soil science	
Hours arranged (CN 93-699-001)	Staff

SECOND SESSION

SSC 590 Special Problems

Prq: SSC 200

Hours arranged (CN 93-590-001)

Credits Arranged

Staff

SSC 699 Research

Prq: Graduate standing in soil science

Hours arranged (CN 93-699-001)

Credits Arranged

Staff

Speech-Communication

FIRST SESSION

SP 110 Public Speaking

0800-0930 (CN 37-110-001)

0950-1120 (CN 37-110-002)

0950-1120 (CN 37-110-003)

3

Staff

Staff

Staff

SP 112 Basic Principles of Interpersonal Communication

0800-0930 (CN 37-112-001)

1140-1310 (CN 37-112-002)

3

Staff

Staff

SP 205 Speech Improvement

0950-1120 (CN 37-205-001)

1140-1310 (CN 37 205 002)

3

Staff

Staff

SP 498A Theatre Arts Clinic

Hours arranged (CN 37-498-001)

3

Russell

SP 498B Theatre Arts Clinic

Hours arranged (CN 37-498-002)

3

Martin

SECOND SESSION

SP 110 Public Speaking

0800-0930 (CN 37-110-001)

0950-1120 (CN 37-110-002)

0950-1120 (CN 37-110-003)

1140-1310 (CN 37-110-004)

1140-1310 (CN 37-110-005)

3

Staff

Staff

Staff

Staff

Staff

SP 112 Basic Principles of Interpersonal Communication

0800-0930 (CN 37-112-001)

0950-1120 (CN 37-112-002)

3

Attaway

Attaway

SP 498A Theatre Arts Clinic

Hours arranged (CN 37-498-001)

3

Russell

SP 498B Theatre Arts Clinic

Hours arranged (CN 37-498-002)

3

Martin

Statistics

FIRST SESSION

ST 311 Introduction to Statistics

0800-0930 (CN 94-311-001)

1140-1310 (CN 94-311-002)

3

Staff

Staff

ST (EB) 350 Economics and Business Statistics

(See EB 350, page 37)

ST 361 Introduction to Statistics for Engineers	3
Preq: College Algebra 0800-0930 (CN 94-361-001)	Staff
ST 371 Introduction to Probability and Distribution Theory	2
Preq: MA 201 0950-1120 (CN 94-371-001)	Staff
ST 511S Experimental Statistics I	3
Preq: ST 311 or graduate standing 1140-1310 (CN 94-511-001)	Staff
ST 591 Special Problems	1-3
Hours arranged (CN 94-591-001)	Staff
ST 691 Advanced Special Problems	1-3
Preq: ST 502 or equivalent, ST 552 Hours arranged (CN 94-691-001)	Staff
ST 699 Research	Credits arranged
Hours arranged (CN 94-699-001)	Staff
SECOND SESSION	
ST 372 Introduction to Statistical Inference and Regression	2
Preq: ST 371 0950-1120 (CN 94-372-001)	Staff
ST 512S Experimental Statistics II	3
Preq: ST 511 or equivalent 0800-0930 (CN 94-512-001)	Staff
ST (MA) 541 Theory of Probability I	3
Preq: MA 425 or MA 511 (See MA (ST) 541, page 59)	Staff
ST 591 Special Problems	1-3
Hours arranged (CN 94-591-001)	Staff
ST 691 Advanced Special Problems	1-3
Preq: ST 502 or equivalent, ST 552 Hours arranged (CN 94-691-001)	Staff
ST 699 Research	Credits Arranged
Hours arranged (CN 94-699-001)	Staff
Textile Chemistry	
FIRST SESSION	
T 203 Introduction to Polymer Chemistry	3
Preq: CH 101 0950-1120 (CN 95-203-001)	Bryan
TC 490 Special Topics in Textile Chemistry	1-6
Hours arranged (CN 96-490-001)	Staff
TC 699 Textile Research for Textile Chemistry	Credits Arranged
Hours arranged (CN 96-699-001)	McGregor
SECOND SESSION	
T 301 Technology of Dyeing and Finishing	4
Preq: T 203 LR 0800-0930 (CN 95-301-001) LB 1340-1620 TTh (CN 95-301-101)	Rucker

TC 490 Special Topics in Textile Chemistry	1-6
Hours arranged (CN 96-490-001)	Staff
T 493 Industrial Internship in Textiles	3
Preq: Junior or senior in good standing	
Hours arranged (CN 95-493-001)	Klibbe
TC 699 Textile Research for Textile Chemistry	Credits Arranged
Hours arranged (CN 96-699-001)	McGregor

Textile Materials & Management

FIRST SESSION

T 220 Yarn Forming Systems	4
Preq: T 101 or equivalent	
LR 0800-0930 (CN 95-220-001)	Staff
LB 1340-1620 TTh (CN 95-220-101)	
TX 330 Textile Measurements and Quality Control	4
Preq: T 250, ST 361	
LR 0950-1120 (CN 97-330-001)	Massey
LB 1340-1620 MW (CN 97-330-101)	
TX 350 Woven Fabric Structures	5
Preq: T 250, T 211	
LR 1020-1230 (CN 97-350-001)	Schwartz
LB 1340-1620 TTh (CN 97-350-101)	
TX 380 Management and Control of Textile Systems	3
Preq: EB 201, T 250	
0800-0930 (CN 97-380-001)	Staff
TX 490 Development Project in Textile Technology	2 3
Preq: Senior standing and consent of instructor	
Hours arranged (CN 97-490-001)	Staff
TX 590 Special Projects in Textiles	2 3
Preq: Senior or graduate standing, consent of instructor	
Hours arranged (CN 97-590-001)	Staff
TX 680 Special Projects in Textile Management	1 3
Preq: TX (EB) 585	
Hours arranged (CN 97-680-001)	Cooper
TX 699 Textile Research	Credits Arranged
Hours arranged (CN 97-699-001)	Staff

SECOND SESSION

T 211 Introduction to Fiber Science	3
Preq: MA 112 or MA 102	
LR 0800-0900 (CN 95-211-001)	Hutchison
LB 1340-1620 TTh (CN 95-211-101)	
T 250 Fabric Forming Systems	3
Preq: MA 111 or equivalent	
0950-1120 (CN 95-250-001)	Rhodes
TX 320 Mechanics of Spun Yarn Manufacturing Systems	4
Preq: T 220	
Coreq: T 211	
LR 0950-1120 (CN 97-320-001)	Pardue
LB 1340-1620 MW (CN 97-320-101)	

TX 340 Principles of Knitted Fabric Structures	5
Preq: T 250, T 211	
LR 1020-1230 (CN 97-340-001)	Middleton
LB 1340-1620 MW (CN 97-340-101)	
TX 490 Development Project in Textile Technology	2-3
Preq: Senior standing and consent of instructor	
Hours arranged (CN 97-490-001)	Staff
T 493 Industrial Internship in Textiles	3
Preq: Junior or senior in good standing	
Hours arranged (CN 95-493-001)	Klibbe
TX 590 Special Projects in Textiles	2-3
Preq: Senior or graduate standing, consent of instructor	
Hours arranged (CN 97-590-001)	Staff
TX 699 Textile Research	Credits Arranged
Hours arranged (CN 97-699-001)	Staff
University Studies	
FIRST SESSION	
UNI 301 Science and Civilization	3
Preq: Sophomore standing	
0800-0930 (CN 89-301-001)	Stalnaker
UNI 324 Alternative Futures	3
0950-1120 (CN 89-324-001)	Hoffman
UNI 325 Bio-Medical Ethics: An Interdisciplinary Inquiry	3
0950-1120 (CN 89-325-001)	Stalnaker
UNI 402 Peace and War in the Nuclear Age	3
0800-0930 (CN 89-402-001)	Hoffman
SECOND SESSION	
UNI 301 Science and Civilization	3
Preq: Sophomore standing	
0800-0930 (CN 89-301-001)	Lambert
UNI 302 Contemporary Science and Human Values	3
Preq: Sophomore standing	
0950-1120 (CN 89-302-001)	Lambert
UNI 303 Man and His Environment	3
Preq: Sophomore standing	
0800-0930 (CN 89-303-001)	Huisingh
UNI 495G Special Topics in University Studies— Lifelong Learning and the Process of Aging	3
0950-1120 (CN 89-495-001)	Huisingh
Veterinary Science	
FIRST SESSION	
VET 490 Special Topics in Veterinary Science	Credits Arranged
Preq: Junior standing	
Hours arranged (CN 91-490-001)	Staff
VET 590 Advanced Special Topics in Veterinary Science	Credits Arranged
Hours arranged (CN 91-590-001)	Staff

SECOND SESSION

VET 490 Special Topics in Veterinary Science	Credits Arranged
Preq: Junior standing	
Hours arranged (CN 91-490-001)	Staff
VET 590 Advanced Special Topics in Veterinary Science	Credits Arranged
Hours arranged (CN 91-590-001)	Staff

Wood and Paper Science

FIRST SESSION

WPS 205 Wood Products Practicum	5
WST Summer Practicum	
Preq: WPS 201 or WPS 202	
0800-1700 (CN 90-205-001)	Carter, Gilmore
WPS 210 Forest Products Internship	1
Preq: Completion of summer practicum	
0800-1700 (CN 90-210-001)	Carter
WPS 491 Senior Problems in Wood & Paper Science	Credits Arranged
Preq: Consent of department	
Hours arranged (CN 90-491-001)	Staff
WPS 591 Wood and Paper Science Problems	Credits Arranged
Preq: Senior or graduate standing	
Hours arranged (CN 90 591-001)	Staff
WPS 693 Advanced Wood Technology Problems	Credits Arranged
Preq: Graduate standing	
Hours arranged (CN 90-693-001)	Staff
WPS 699 Problems and Research	Credits Arranged
Preq: Graduate standing	
Hours arranged (CN 90-699-001)	Staff

SECOND SESSION

WPS 491 Senior Problems in Wood & Paper Science	Credits Arranged
Preq: Consent of department	
Hours arranged (CN 90-491-001)	Staff
WPS 591 Wood and Paper Science Problems	Credits Arranged
Preq: Senior or graduate standing	
Hours arranged (CN 90-591-001)	Staff
WPS 693 Advanced Wood Technology Problems	Credits Arranged
Preq: Graduate standing	
Hours arranged (CN 90-693-001)	Staff
WPS 699 Problems and Research	Credits Arranged
Preq: Graduate standing	
Hours arranged (CN 90-699-001)	Staff

Zoology

FIRST SESSION

BS 100 General Biology	4
(See biological sciences, page 29)	

ZO 201 General Zoology	4
Preq: BS 100 or BS 105	
LR 0800-0930 (CN 99-201-001)	Grant
LB 1340-1750 MW (CN 99-201-101)	Staff
LB 1340-1750 TTh (CN 99-201-102)	Staff
ZO(BO) 360 Introduction to Ecology	4
Preq: A 200-level biology course	
LR 0800-0930 (CN 99-360-001)	Staff
LB 1340-1750 MW (CN 99-360-101)	Staff
LB 1340-1750 TTh (CN 99-360-102)	Staff
ZO 590 Special Studies	Credits Arranged
Preq: Twelve hours in zoology, consent of instructor	
Hours arranged (CN 99-590-001)	Vandenbergh
ZO 699 Research in Zoology	Credits Arranged
Preq: Twelve hours in zoology, consent of instructor	
Hours arranged (CN 99-699-001)	Vandenbergh
SECOND SESSION	
ZO 221 Conservation of Natural Resources	3
1140-1310 (CN 99-221 001)	Staff
ZO 353 Wildlife Management	3
Preq: BS 100	
0800-0930 (CN 99-353-001)	Staff
ZO 421 Vertebrate Physiology	3
Preq: CH 223, PY 212, ZO 201 or ZO 203	
0800-0930 (CN 99-421-001)	Staff
ZO 590 Special Studies	Credits Arranged
Preq: Twelve hours in zoology, consent of instructor	
Hours arranged (CN 99-590-001)	Vandenbergh
ZO 699 Research in Zoology	Credits Arranged
Preq: Twelve hours in zoology, consent of instructor	
Hours arranged (CN 99-699-001)	Vandenbergh

UNIVERSITY CRAFT CENTER COURSES

REGISTRATION PROCEDURES

The following noncredit, special interest courses are being offered through the cooperation of the University Craft Center, Basement Frank Thompson Building. REGISTRATION WILL TAKE PLACE AT THE CRAFT CENTER ON THURSDAY, MAY 18, 1978, 12:30-7:30 P.M. No registration by mail or phone will be accepted.

All registrations and cancellations are to be made at the craft center. Notification of cancellation must be received 48 hours before the course begins in order to get refund. Minimum age for registrants is 16 years.

COURSE OFFERINGS AND CLASS SCHEDULE

DESIGN ON FABRIC

Course Description: Use of wax resist, direct painting with dyes, block printing and tie dyeing fabrics. Basic dyes and material included in fee. Fee includes the use of the workshop throughout the summer.

Summer Schedule: Each Monday and Wednesday evening for 4 weeks, 7:00-10:00 p.m. beginning July 10.

Fee: \$50.00

SCREEN-PROCESS PRINTING ON FABRIC

Course Description: Silk Screen techniques including photographic film and cut stencils used to print fabrics. Basic supplies included in fee. Fee includes the use of the workshop throughout the summer.

Summer Schedule: Each Monday and Wednesday evening for 4 weeks, 3:00-6:00 p.m., beginning May 29.

Fee: \$50.00

POTTERY I

Course Description: Construction of coiled, slab and pinched pots as well as use of the potter's wheel. Lectures will discuss nature of clay and various materials used by the potter as related to function and form. Basic supplies are included in the fee. Fee includes the use of the workshop throughout the summer.

Summer Schedule: Section (a): Each Monday and Wednesday evening for 4 weeks, 7:00-10:00 p.m., beginning May 29.

Section (b): Each Monday and Wednesday afternoon for 4 weeks, 2:00-5:00 p.m., beginning May 29.

Section (c): Each Monday and Wednesday evening for 4 weeks, 7:00-10:00 p.m., beginning July 10.

Section (d): Each Monday and Wednesday afternoon for 4 weeks, 2:00-5:00 p.m., beginning July 10.

Fee: \$50.00

WEAVING I

Course Description: Beginners learn to dress a four harness floor loom, make a sampler using various techniques, and a project of the student's choice. Beginning sampler materials only included in the fee. Six to eight hours a week between classes is necessary to complete projects.

Summer Schedule: Each Monday and Wednesday evening for 6 weeks, 7:00-10:00 p.m., beginning May 29.

Fee: \$50.00

WEAVING II

Course Description: Designed to follow Weaving I. Must be able to dress floor loom and know basic weaving techniques. More advanced and varied projects are planned in this class. Six hours a week between classes is necessary to complete projects.

Summer Schedule: Tuesday evenings for 5 weeks, 7:00-10:00 p.m., beginning July 11.

Fee: \$40.00

BLACK AND WHITE PHOTOGRAPHIC PROCESSING I

Course Description: Basic developing techniques used for B/W film, contact printing and enlargements. Fee includes the use of the darkroom through the summer.

Summer Schedule: Section (a): Each Monday and Wednesday evening for 2 weeks, 7:00-10:00 p.m., beginning May 29.
Section (b): Each Monday and Wednesday afternoon for 2 weeks, 2:00-5:00 p.m., beginning May 29.
Section (c): Each Monday and Wednesday evening for 2 weeks, 7:00-10:00 p.m., beginning July 10.
Section (d): Each Monday and Wednesday afternoon for 2 weeks, 2:00-5:00 p.m., beginning July 10.
Other sections may be added as these class sections fill.

Fee: \$45.00

VISUAL COMPOSITION

Course Description: Inexperienced photographers will be introduced to the basic skills needed for composing effective and pleasing photographs. Slides, photographs, and paintings will be used to illustrate concepts. Elements of criticism will be discussed.

Summer Schedule: Section (a): Each Tuesday and Thursday for 3 weeks, 7:00-9:00 p.m., beginning May 30.
Section (b): Each Tuesday and Thursday evening for 3 weeks, 7:00-9:00 p.m., beginning July 11.

Fee: \$40.00

LAPIDARY

Course Description: Stone cutting, polishing, and faceting semi-precious gem stones and minerals. This is a small class needing one machine per student. Regular attendance is stressed to benefit advantages offered. Additional lab time between classes is necessary.

Summer Schedule: Section (a): Monday through Thursday evenings for 2 weeks, 7:00-10:00 p.m., beginning May 29.
Section (b): Monday through Thursday evenings for 2 weeks, 7:00-10:00 p.m., beginning July 10.

Fee: \$30.00

HAMMOCK MAKING

Course Description: Participants in this class will complete a Pawley's Island-type hammock. All materials will be provided in the class fee.

Summer Schedule: Section (a): Tuesday, Wednesday, and Thursday evenings, 7:00-10:00 p.m., beginning May 30.
Section (b): Monday, Tuesday and Wednesday afternoons, 2:00-5:00 p.m., beginning June 12.
Section (c): Monday, Tuesday and Wednesday evenings, 7:00-10:00 p.m., beginning July 10.
Section (d): Tuesday, Wednesday and Thursday afternoons, 2:00-5:00 p.m., beginning July 25.

Fee: \$40.00

INTRODUCTION TO DRAWING

Course Description: Exploring line; using pencil, charcoal, and ink. Basic supplies included in class fee.

Summer Schedule: Section (a): Each Monday and Wednesday evening for 3 weeks, 7:00-10:00 p.m., beginning May 29.
Section (b): Each Monday and Wednesday evening for 3 weeks, 7:00-10:00 p.m., beginning July 10.

Fee: \$35.00

SLIP CAST CERAMICS (using molds)

Course Description: Liquid clay is poured in plaster of Paris molds to form a shell of the desired shape. A good basic knowledge of handling clay, and other materials used to complete attractive finished pieces is offered in these classes. Beginning tools and clay are included in the fee, also use of workshop for the remainder of the summer. Glazes and other ceramic materials may be purchased at the Craft Center.

Summer Schedule: Section (a): Monday and Thursday evenings, 7:00-10:00 p.m., for 2 weeks, beginning May 29.
Section (b): Monday and Thursday afternoons, 2:00-5:00 p.m., for 2 weeks, beginning June 12.

Fee: \$22.00

Classes in:

DECOUPAGE, WICKER BASKETRY, and FIBER TECHNIQUES FOR SOFT SCULPTURE AND JEWELRY may be arranged if interest merits. Please inquire at Craft Center Registration.

REMINDER: Registration will take place at the Craft Center in the basement of the Frank Thompson Building on May 18, 1978, 12:30-7:30 p.m. No registration by mail or phone will be accepted. **NOTIFICATION OF CANCELLATION MUST BE RECEIVED 48 HOURS BEFORE THE COURSE BEGINS IN ORDER TO GET REFUND.**



On campus housing at N. C. State includes 16 residence halls as well as apartments for married students.

SUMMER SESSIONS FACULTY

A

Charles Noel Anderson, M.E., Assistant Professor of Mathematics
Angelo Rudy Abbate, M.I.A.R., Associate Professor of Design
C. F. Abrams, Ph.D., Assistant Professor of Biological and Agricultural Engineering
Donald Brant Adcock, M.A., Assistant Director of Music
Elsayed M. Afify, Ph.D., Associate Professor of Mechanical and Aerospace Engineering
Joseph Aharony, Ph.D., Visiting Assistant Professor of Economics and Business
Merritt James Aldrich, Ph.D., Assistant Professor of Geosciences
Michael Ameln, Ph.D., Professor of Civil Engineering
Judy Schauf Anhorn, Ph.D., Assistant Professor of English
Frank Bradley Armstrong, Ph.D., University Professor of Biochemistry
Lys G. Aubrecht, Ph.D., Visiting Assistant Professor of Curriculum and Instruction
Michael Rosa Austin, M.S., Instructor of Computer Science
Willard Timothy Austin, Ph.D., Assistant Professor of Sociology and Anthropology
Charles Wilson Averre, III, Ph.D., Extension Professor of Plant Pathology
Robert Aycock, Ph.D., Professor of Plant Pathology and Horticultural Science and Head of Plant Pathology

B

Willard Farrington Babcock, S.M., Professor of Civil Engineering
John Albert Bailey, Ph.D., Professor of Mechanical and Aerospace Engineering
Barbara Hurst Baines, Ph.D., Assistant Professor of English
David Stafford Ball, Ph.D., Associate Professor of Economics
Howard G. Ball, Ph.D., Associate Professor of Curriculum and Instruction
James Roderick Banker, Ph.D., Associate Professor of History
George Oates Batton, B.S.M.E., Instructor in and Assistant Head of Mechanical and Aerospace Engineering
William John Barclay, Ph.D., Professor of Electrical Engineering
James C. Barker, Ph.D., Extension Assistant Professor of Biological and Agricultural Engineering
Kenneth Reec Barker, Ph.D., Professor of Plant Pathology
Bobby David Barnes, Ph.D., Assistant Professor of Civil Engineering
Gerald Robert Baughman, Ph.D., Associate Professor of Biological and Agricultural Engineering
Robert Lee Beckman, Ph.D., Assistant Professor of Biological Sciences and Botany
Burton F. Beers, Ph.D., Professor of History
David Michael Benson, Ph.D., Assistant Professor of Plant Pathology
Carol Lynn Bergold, M.E.A., Lecturer in Economics and Business
Andrea Lynn Berle, M.Ed., Assistant Professor of Physical Education
Leonidas Judd Betts, Jr., Ed.D., Associate Professor of English and Education
Marvin Kenneth Beute, Ph.D., Associate Professor of Plant Pathology
William Louis Bingham, Ph.D., Associate Professor of Civil Engineering
John William Bishir, Ph.D., Professor of Mathematics
Paul Edward Bishop, Ph.D., Assistant Professor (USDA) of Microbiology
Gary Brian Blank, M.S., Instructor in English
George Hansson Blessis, M.E., Associate Professor of Civil Engineering
Milton Clay Bliss, M.A., Assistant Director of Music and Visiting Assistant Professor of Music
Jon Borden, Ph.D., Professor of Chemistry and Biochemistry
Charles B. Boss, Ph.D., Assistant Professor of Chemistry
C. Ed. Bowen, M.P.A., Special Lecturer in Economics and Business
Henry Dittimus Bowen, Ph.D., Professor of Biological and Agricultural Engineering
Lawrence Hoffman Bowen, Ph.D., Professor of Chemistry
Paul Arnold Bredenberg, Ph.D., Professor of Philosophy
Michael J. Briggson, M.A., Lecturer in Physical Education
Robert Curtis Brisson, Ph.D., Associate Professor of Sociology and Anthropology
Marvin Luther Brown, Jr., Ph.D., Professor of History
William Paul Brown, M.B.A., Instructor in Economics and Business
Robert Sedgwick Bryan, Ph.D., Professor of Philosophy and Religion
Carl Lee Bumgardner, Ph.D., Professor and Head of Chemistry
Ernest Edmund Burniston, Ph.D., Professor of Mathematics
John E. Burton, Jr., Ph.D., Assistant Professor of Sociology and Anthropology
Robert McMaster Butler, M.A., Visiting Lecturer in English

C

Claude E. Caldwell, J.D., Adjunct Professor of Political Science
Leon Raymond Camp, Ph.D., Associate Professor of Speech Communication
Stephen La Vern Campbell, Ph.D., Associate Professor of Mathematics
Halbert Hart Carmichael, Ph.D., Associate Professor of Chemistry
Roy Merwin Carter, M.S., Professor of Wood and Paper Science
William Randolph Carter, Ph.D., Associate Professor of Philosophy
Tony W. Cates, M.A., Visiting Instructor in Physical Education

Thomas Courtney Caves, Ph.D., Associate Professor of Chemistry
Richard Edward Chandler, Ph.D., Professor and Graduate Administrator of Mathematics
Allen Chia-Chen Chao, Ph.D., Assistant Professor of Civil Engineering
Harvey Johnson Charlton, Ph.D., Assistant Professor of Mathematics
William A. Cheek, M.S., Lecturer in Physical Education
Donna L. Chmielewski, Ph.D., Assistant Professor of Psychology
Lung Ock Chung, Ph.D., Assistant Professor of Mathematics
Carlyle Newton Clayton, Ph.D., Professor of Plant Pathology
Grover Cleveland Cobb, Jr., Ph.D., Associate Professor of Physics
Paul Rodman Cockburn, A.B., Instructor in English
Lina L. Cofresi, Ph.D., Assistant Professor of Foreign Languages and Literatures
Jo-Ann D. Cohen, Ph.D., Assistant Professor of Mathematics
James Lawrence Cole, Ph.D., Associate Professor of Psychology
Robert M. Collins, Ph.D., Assistant Professor of History
J. Lin Compton, Ph.D., Assistant Professor of Adult and Community College Education
Charles Joseph Constantin, Ph.D., Assistant Professor of History
Henry Charles Cooke, M.S., Associate Professor of Mathematics
Arthur Wells Cooper, Ph.D., Professor of Forestry and Botany
Alonzo Freeman Coots, Ph.D., Associate Professor of Chemistry
Harold Maxwell Corter, Ph.D., Professor of Psychology
Ellis Brevier Cowling, Ph.D., Professor of Plant Pathology, Wood and Paper Science, and Forestry
Walter L. Cox, Jr., Ed.D., Assistant Professor of Education and Coordinator, Introduction to Vocations
Paul Day Cribbins, Ph.D., Professor of Civil Engineering
Henry Leland Crouch, M.A.T., Instructor in Mathematics
Joseph William Cunningham, Ph.D., Professor of Psychology

D

James Alvin Daggert, Jr., Ph.D., Assistant Professor of Mechanical and Aerospace Engineering
John Michael Anthony Danby, Ph.D., Professor of Mathematics and Physics
Edmund Pendleton Dandridge, Jr., Ph.D., Associate Professor of English
Charles Bingham Davey, Ph.D., Professor of Forestry, Soil Science, and Plant Pathology and Head of Forestry
Harold Leroy Davison, M.A.T., Instructor in Mathematics
William Robert Davis, Ph.D., Professor of Physics
Cleburn Gilchrist Dawson, Ph.D., Assistant Professor of Sociology and Anthropology
Donald Lee Dean, Ph.D., Professor and Head of Civil Engineering
M. Keith DeArmond, Ph.D., Professor of Chemistry
L. Richard Della Fave, Ph.D., Assistant Professor of Sociology and Anthropology
Walter Jerome Dobrogosz, Ph.D., Professor of Microbiology
Phillip David Doerr, Ph.D., Assistant Professor of Zoology
William Grady Dotson, Jr., Ph.D., Professor of Mathematics
Robert Alden Douglas, Ph.D., Professor of Civil Engineering
Ann Drennan, M.S., Visiting Assistant Professor of Adult and Community College Education
Harry Ernest Duncan, Ph.D., Professor, In Charge, Plant Pathology Extension
Joseph C. Dunn, Ph.D., Associate Professor of Mathematics
Jack Davis Durant, Ph.D., Professor of English

E

William Taylor Easter, M.S., Associate Professor of Electrical Engineering and Director of Engineering Operations
Yukiko Ebisuzaki, Ph.D., Assistant Professor of Chemistry
Eddie Echandi, Ph.D., Professor of Plant Pathology
John Auert Edwards, Ph.D., Professor of Mechanical and Aerospace Engineering
Gerald Hugh Elkan, Ph.D., Professor of Microbiology
Robert Neal Elliott, Ph.D., Associate Professor of History
Don Edwin Ellis, Ph.D., Professor Emeritus of Plant Pathology
James Brainerd Evans, Ph.D., Professor and Head of Microbiology

F

Abdel-Aziz Fahmy, Ph.D., Professor of Materials Engineering
Maurice Hugh Farrier, Ph.D., Professor of Entomology and Forestry
Robert Marcom Fearn, Ph.D., Professor of Economics
Thomas Paul Feeny, Ph.D., Associate Professor of Foreign Languages and Literatures
Alan Bruce Finger, M.S., Instructor in Computer Science
Douglas Fisher, Ph.D., Visiting Professor of Economics and Business
John Erwin Franke, Ph.D., Assistant Professor of Mathematics
Douglas J. Frederick, Ph.D., Assistant Professor of Forestry
Leon David Freedman, Ph.D., Professor of Chemistry
John Frink Freeman, M.S., Instructor in Engineering Graphics
Ronald Owen Fulp, Ph.D., Professor of Mathematics
Edward T. Funkhouser, M.A., Instructor in Speech-Communication

G

William Sylvan Galler, Ph.D., Professor of Civil Engineering
 Marianne L. Gardner, Ph.D., Assistant Professor of Mathematics
 Dennis Evo Garoutte, Ph.D., Assistant Professor of Mathematics
 Ralph Gellar, Ph.D., Associate Professor of Mathematics
 Thomas Gemmer, M.S., Teaching Technician in Forestry
 Edwin R. Gerler, Ed.D., Assistant Professor of Guidance and Personnel Services
 Forrest William Getzen, Ph.D., Professor of Chemistry
 Robert C. Gilmore, M.W.S., Associate Professor of Wood and Paper Science
 Joseph Conrad Glass, Jr., Ed.D., Associate Professor of Adult and Community College Education
 Chester Eugene Gleit, Ph.D., Associate Professor of Chemistry
 Guy Vernon Gooding, Jr., Ph.D., Professor of Plant Pathology
 Thomas Frederick Gordon, M.A.T., Instructor in Mathematics
 William Lee Gragg, Ph.D., Associate Professor of Adult and Community College Education
 Larry Frank Grand, Ph.D., Professor of Plant Pathology and Forestry
 William Cullen Grant, Ph.D., Assistant Professor of Zoology
 Joseph Green, M.L.A., Instructor in Horticultural Science
 Ralph W. Greenlaw, Ph.D., Professor of History
 Thomas James Grennes, M.A., Assistant Professor of Economics and Business
 Joan Scott Griffin, M.A., Instructor in English
 Edward Dewitt Gurley, Ph.D., Associate Professor of Civil Engineering
 Robert Grant Gwyn, M.A.T., Assistant Professor of Physical Education

H

David Glen Haase, Ph.D., Assistant Professor of Physics
 William Leroy Hailey, Ph.D., Professor of Forestry and Statistics
 George Lincoln Hall, Ph.D., Professor of Physics
 Max Halpern, Ph.D., Professor of English
 Pat Brooks Hamilton, Ph.D., Professor of Poultry Science and Microbiology
 Thomas Napolis Hammond, Ph.D., Assistant Professor of Foreign Languages and Literatures
 Kenneth William Hanck, Ph.D., Associate Professor of Chemistry
 Blanche C. Haning, Ph.D., Assistant Professor of Plant Pathology
 Donna A. Hanisch, M.A., Visiting Instructor in Curriculum and Instruction
 Donald Joseph Hansen, Ph.D., Assistant Professor of Mathematics
 Walter Joel Harrington, Ph.D., Professor and Assistant Head of Mathematics
 William Charles Harris, Ph.D., Professor of History
 Antony Howard Harrison, Ph.D., Assistant Professor of English
 Franklin Delano Hart, Ph.D., Professor of Mechanical and Aerospace Engineering
 Robert Eduard Hartwig, Ph.D., Associate Professor of Mathematics
 Wayne Earle Haskin, M.A., Assistant Professor of English
 Awatif El-Domiaty Hassan, Ph.D., Associate Professor of Forestry
 Hassan A. Hassan, Ph.D., Professor of Mechanical and Aerospace Engineering
 Ted S. Hasselbring, M.A.T., Instructor in Curriculum and Instruction
 Francis Jefferson Hassler, Ph.D., William Neal Reynolds Professor and Head of Biological and Agricultural Engineering
 Kerry Shuford Havner, Ph.D., Professor of Civil Engineering
 Allen Streeter Heagle, Ph.D., Associate Professor (USDA) of Plant Pathology
 Teddy Theodore Hebert, Ph.D., Professor of Plant Pathology and Genetics
 Clinton Louis Heimbach, Ph.D., Professor of Civil Engineering
 Forrest Clyde Hentz, Jr., Ph.D., Professor of Chemistry
 George Henry Hepting, Ph.D., Adjunct Professor of Plant Pathology and Forestry
 Marvin Thomas Hester, Ph.D., Associate Professor of English
 William Lawrence Highfill, Ph.D., Associate Professor of Religion
 Janet Hoffman Hobbs, M.A., Instructor in English
 Thomas Henry Hodgson, Ph.D., Professor of Mechanical and Aerospace Engineering
 Robert Lewis Hoffman, Ph.D., Assistant Professor of University Studies
 Daniel Lester Holley, Jr., Ph.D., Associate Professor of Forestry and Economics and Business
 Duncan M. Holthausen, Jr., Ph.D., Associate Professor of Economics and Business
 Charles Roy Horner, M.A., Instructor in English
 Horace Robert Horton, Ph.D., Professor of Biochemistry
 Robert Alden Howland, Ph.D., Visiting Instructor in Mechanical and Aerospace Engineering
 Barney Kuo-Yen Huang, Ph.D., Professor of Biological and Agricultural Engineering
 Jeng-Sheng Huang, Ph.D., Assistant Professor of Plant Pathology
 Z Zimmerman Hogue, Jr., Ph.D., Professor of Chemistry
 Donald Huisling, Ph.D., Professor of University Studies
 Johnny Leroy Hulse, Ph.D., Assistant Professor of Civil Engineering
 Frank James Humenik, Ph.D., Associate Professor of Biological and Agricultural Engineering and Associate Head in Charge of Extension
 Ervin Grigg Humphries, Ph.D., Professor of Biological and Agricultural Engineering and Mechanical and Aerospace Engineering
 James Ernest Huneycutt, Jr., Ph.D., Associate Professor of Mathematics
 Jacob Allan Hurwitz, Ph.D., Assistant Professor of Political Science
 Elvan Edward Hutchison, M.S., Associate Professor of Textile Technology
 Theodore Martin Hyman, Ph.D., Assistant Professor of Sociology and Anthropology

I

William Prentiss Ingram, Jr., Ph.D., Assistant Professor and Assistant Head of Chemistry

J

Lance Flippin Jeffers, M.A., Associate Professor of English
 Samuel Forest Jenkins, Jr., Ph.D., Professor of Plant Pathology
 Laurens Gifford Jervis, M.F., Assistant Professor of Forestry
 Larry Ray Jewell, M.S., Assistant Professor of Occupational Education
 David West Johnston, Ph.D., Assistant Professor of Civil Engineering
 Robert Edward Johnston, Ph.D., Assistant Professor of Microbiology
 William Rodgers Johnston, M.S., Assistant Professor of Chemistry
 B. Lamar Johnson, Ph.D., Visiting Professor Emeritus of Adult and Community College Education
 John William Johnson, Ph.D., Professor of Forestry
 Joseph Clyde Johnson, Ed.D., Professor of Psychology
 William Hugh Johnson, Ph.D., Professor of Biological and Agricultural Engineering
 Louis Allman Jones, Ph.D., Associate Professor of Chemistry
 Ronald Klair Jones, Ph.D., Extension Associate Professor of Plant Pathology

K

Joseph Stephan Kahn, Ph.D., Professor of Biochemistry
 Abdel-Aziz Ismail Kashef, Ph.D., Professor of Civil Engineering
 Gerald Howard Katzin, Ph.D., Professor of Physics
 Harold Keating, M.Ed., Associate Professor of Physical Education
 Noelle Link Kehrbeg, Ph.D., Assistant Professor of Food Science
 Robert Clay Kellison, Ph.D., Associate Professor of Forestry
 John Rivard Kelly, Ph.D., Associate Professor of Foreign Languages and Literatures
 Myron William Kelly, Ph.D., Assistant Professor of Wood and Paper Science
 Nancy B. Ketchiff, Ph.D., Assistant Professor of History
 James Allen Kilby, Jr., Ph.D., Assistant Professor of English
 Doris Elizabeth King, Ph.D., Professor of History
 Todd Robert Klaushammer, Ph.D., Assistant Professor of Food Science
 Katherine W. Klein, Ph.D., Assistant Professor of Psychology
 James Warner Klibbe, B.S., Associate Professor of Textiles
 Richard Bennett Knight, Jr., M.S., L.L. Vaughan Professor of Mechanical and Aerospace Engineering
 Charles R. Knowber, Ph.D., Assistant Professor of Economics and Business
 James Arthur Knopp, Ph.D., Associate Professor of Biochemistry
 Kwangil Koh, Ph.D., Professor of Mathematics
 John Ronald Kolb, Ph.D., Professor of Mathematics and Mathematics and Science Education
 Elmer George Kuhlman, Ph.D., Adjunct Professor of Plant Pathology and Forestry
 Christopher A. Kuretz, M.E.S., Visiting Instructor in Statistics

L

Thomas Joseph Lada, Ph.D., Assistant Professor of Mathematics
 Fred Lado, Jr., Ph.D., Associate Professor of Physics
 John Ralph Lambert, Jr., Ph.D., Professor of University Studies
 Leonard Jay Langfelder, Ph.D., Professor of Civil Engineering and Director of Center for Marine and Coastal Studies
 Tyre Calvin Lanier, Ph.D., Assistant Professor of Food Science
 John S. Lapp, Ph.D., Assistant Professor of Economics and Business
 Neil Arden Lapp, Ph.D., Adjunct Associate Professor of Plant Pathology
 Dana May Latch, Ph.D., Assistant Professor of Mathematics
 J. Paul Leagnas, Ph.D., Adjunct Professor of Adult and Community College Education
 Virginia M. Leath, M.Ed., Lecturer in Physical Education
 Kurt John Leonard, Ph.D., Associate Professor (USDA) of Plant Pathology
 Rebecca Leonard, Ph.D., Assistant Professor of Speech-Communication
 Richard J. Leuba, Ph.D., Assistant Professor of Freshman Engineering and Student Services
 Michael Phillip Levi, Ph.D., Professor and Leader of Wood and Paper Science and Plant Pathology
 Harold Dressner Levin, Ph.D., Assistant Professor of Philosophy and Religion
 Samuel Gale Levine, Ph.D., Professor of Chemistry
 Paul Edwin Lewis, Ph.D., Professor of Mathematics
 Charles Howie Little, Jr., M.A., Associate Professor of Mathematics
 Don C. Locke, Ed.D., Assistant Professor of Guidance and Personnel Services
 Richard Henry Loeppert, Ph.D., Professor of Chemistry and Assistant to the Department Head
 G. Gilbert Long, Ph.D., Professor of Chemistry
 Ian Stewart Longmuir, M.B., B.Chir., Professor of Biochemistry
 Joseph W. Love, Ph.D., Extension Professor of Horticultural Science
 George Blanchard Lucas, Ph.D., Professor of Plant Pathology
 Leon Thomas Lucas, Ph.D., Associate Professor of Plant Pathology
 Geraldine Hobson Luginbuhl, Ph.D., Assistant Professor of Microbiology
 Jiang Luh, Ph.D., Professor of Mathematics
 Charles F. Lylie, Ph.D., Professor of Zoology and Teaching Coordinator of Biological Sciences

M

Jerry Lee Machenehl, Ph.D., Associate Professor of Civil Engineering
George Maddox, Ph.D., Visiting Professor of Adult and Community College Education
Cathy C. Mahmoud, Ed.D., Assistant Professor of Curriculum and Instruction
Alexander Russell Main, Ph.D., Professor of Biochemistry
Charles Edward Main, Ph.D., Associate Professor of Plant Pathology
Herbert Rooney Malcom, Jr., Ph.D., Associate Professor of Civil Engineering
Allison Ray Manson, Ph.D., Associate Professor of Statistics
Edward Raymond Mauring, Ph.D., Professor of Physics
Joe Alton Marlin, Ph.D., Associate Professor of Mathematics
Calpepper Paul Marsh, M.S., Professor of Sociology and Anthropology
David Hamilton Martin, M.S., Associate Professor of Physics
Frances W. Massey, M.S., Assistant Professor of Textiles
Joseph P. Mastro, Ph.D., Associate Professor of Political Science
Vernon Charles Matzen, Ph.D., Assistant Professor of Civil Engineering
Robert Barton McBurney, Jr., M.B.A., Assistant Professor of Economics
Jackson Mearns McClain, Ph.D., Associate Professor of Political Science
William Fred McClure, Ph.D., Professor of Biological and Agricultural Engineering
Agnes Hamblen McDonald, M.A., Instructor in English
Patrick Hill McDonald, Ph.D., Professor of Civil Engineering
Michael B. McElroy, Ph.D., Assistant Professor of Economics and Business
Paul T. McFarlane, Ph.D., Assistant Professor of Sociology and Anthropology
Ralph McGregor, Ph.D., Professor of Textiles
Wendell Herbert McKenzie, Ph.D., Associate Professor of Genetics
Phillip Keith McNelly, Ph.D., Assistant Professor of Recreation Resources Administration
Francis Edward McVay, Ph.D., Professor of Statistics
Charles Venable Mercer, Ph.D., Associate Professor of Sociology and Anthropology
Donald Hartland Mershon, Ph.D., Associate Professor of Psychology
Carl J. Messere, Ph.D., Associate Professor of Economics and Business
Robert Stephen Metzger, Ph.D., Associate Professor of Philosophy
Carl Dean Meyer, Jr., Ph.D., Associate Professor of Mathematics
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Robert Donald Milholland, Ph.D., Professor of Plant Pathology
Howard George Miller, Ph.D., Professor of Psychology
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William L. Miller, Ph.D., Assistant Professor of Biochemistry
Marion Lawrence Miles, Ph.D., Associate Professor of Chemistry
James A. Milne, B.A., Musician-in-Residence of Music
Jehangir Farhad Mirza, Ph.D., Associate Professor of Civil Engineering
Thornton W. Mitchell, Ph.D., Adjunct Associate Professor of History
Gary N. Mock, Ph.D., Assistant Professor of Textiles
Subhas C. Mohapatra, Ph.D., Research Associate in Biological and Agricultural Engineering
Catherine Elizabeth Moore, Ph.D., Associate Professor of English
Clifford James Moore, Jr., Ph.D., Associate Professor of Mechanical and Aerospace Engineering
Charles Glen Moreland, Ph.D., Professor of Chemistry
J. Richard Mowat, Ph.D., Assistant Professor of Physics
James William Moyer, Ph.D., Assistant Professor of Plant Pathology
Wesley Grigg Mullen, Ph.D., Professor of Civil Engineering
James Colvin Mulligan, Ph.D., Associate Professor of Mechanical and Aerospace Engineering
Robert David Mustian, Ph.D., Associate Professor of Sociology and Anthropology
Eunice D. Myers, Ph.D., Assistant Professor of Foreign Languages and Literatures

N

James Nelson, Jr., Ph.D., Assistant Professor of Mathematics
John P. Newby, M.Ed., Instructor in Freshman Engineering and Student Services Division
Paul Adrian Nickel, Ph.D., Professor of Mathematics
Gifford Spruce Nickerson, Ph.D., Associate Professor of Sociology and Anthropology
Lowell Wendell Nielsen, Ph.D., Professor Emeritus of Plant Pathology
Stephens Watson Nunnally, Ph.D., Associate Professor of Civil Engineering
Charles Joseph Nusbaum, Ph.D., William Neal Reynolds Professor Emeritus of Plant Pathology

O

Michael Ray Overcash, Ph.D., Assistant Professor of Biological and Agricultural Engineering and Chemical Engineering
Guy Owen, Jr., Ph.D., Professor of English
Hubert L. Owen, B.S., Assistant Professor of Physics

P

Lavon Barry Page, Ph.D., Associate Professor of Mathematics

Chia-Yen Pao, Ph.D., Associate Professor of Mathematics
 James Edwin Pardue, B.S., Associate Professor of Textiles Materials and Management
 Leslie Parker, Ph.D., Visiting Assistant Professor of Psychology
 Barbara Mitchell Parramore, Ed.D., Associate Professor and Head of Curriculum and Instruction
 Mary Paschal, Ph.D., Associate Professor of Foreign Languages and Literatures
 Gerald W. Patton, M.A., Instructor in History
 Richard Gustave Pearson, Ph.D., Professor of Industrial Engineering and Psychology
 John Noble Perkins, Ph.D., Professor of Mechanical and Aerospace Engineering
 Jerome John Perry, Ph.D., Professor of Microbiology
 Thomas Oliver Perry, Ph.D., Professor of Forestry, Genetics and Landscape Architecture
 Wilbur Carroll Peterson, Ph.D., Associate Professor of Electrical Engineering
 Howard Aldridge Petrus, M.A., Associate Professor of Mathematics
 Robert B. Petters, Ph.D., Assistant Director and Visiting Assistant Professor of Music
 Nathaniel Thomas Powell, Ph.D., Professor of Plant Pathology and Genetics
 Carmine Andrew Prioli, Ph.D., Assistant Professor of English
 Albert Ernest Purcell, Ph.D., Professor (USDA) of Food Science
 Mohan Putcha, Ph.D., Associate Professor of Mathematics

R

Robert Todd Ramsay, Ph.D., Assistant Professor of Mathematics
 Gary R. Rassel, Ph.D., Assistant Professor of Political Science
 John Oren Rawlings, Ph.D., Professor of Statistics and Genetics
 Rachel F. Rawls, Ph.D., Associate Professor of Psychology
 Thomas Howard Regan, Ph.D., Associate Professor of Philosophy
 Thomas Reiland, Ph.D., Assistant Professor of Statistics and Operations Research
 Richard Allyn Reinert, Ph.D., Professor (USDA) of Plant Pathology
 Michael Shane Reynolds, Ph.D., Associate Professor of English
 Trevor Charles Rhodes, M.A., Visiting Lecturer in Textiles Materials and Management
 Gregory Neil Richardson, Ph.D., Assistant Professor of Civil Engineering
 Allen James Riordan, Ph.D., Assistant Professor of Geosciences
 John S. Risley, Ph.D., Assistant Professor of Physics
 Woodrow Ernest Robbins, Ph.D., Associate Professor of Computer Science
 Roger P. Rohrbach, Ph.D., Associate Professor of Biological and Agricultural Engineering
 Ernest William Rollins, Jr., Ph.D., Associate Professor of Foreign Languages and Literatures
 John Paul Ross, Ph.D., Professor (USDA) of Plant Pathology
 John Arthur Roulier, Ph.D., Associate Professor of Mathematics
 Burton L. Russell, Ph.D., Assistant Professor of Speech-Communication

S

Hans Sagan, Ph.D., Professor of Mathematics
 Joseph Neal Sasser, Ph.D., Professor of Plant Pathology
 Robert Garner Savage, M.S., Assistant Professor of Mathematics
 Man Mohan Sawhney, Ph.D., Professor of Sociology and Anthropology
 Dale Edward Sayers, Ph.D., Assistant Professor of Physics
 LeRoy Charles Saylor, Ph.D., Professor of Forestry and Genetics and Associate Dean of Forest Resources
 Stephen Schecter, Ph.D., Assistant Professor of Mathematics
 Donald Peter Schmitt, Ph.D., Assistant Professor of Plant Pathology
 Anton Franz Schreiner, Ph.D., Professor of Chemistry
 Michael D. Schulman, Ph.D., Assistant Professor of Sociology and Anthropology
 Peter Schwartz, M.S., Instructor in Textiles
 Larry E. Scott, M.S., Lecturer in Physical Education
 Kathryn Lee Seidel, Ph.D., Assistant Professor of English
 James Francis Selgrade, Ph.D., Assistant Professor of Mathematics
 Robert C. Serow, Ph.D., Assistant Professor of Curriculum and Instruction
 Jack Lynn Shannon, M.S., Assistant Professor of Physical Education
 K. Bruce Sherbine, Ph.D., Visiting Associate Professor of Biological Sciences
 Paul Beck Shoemaker, Ph.D., Extension Associate Professor of Plant Pathology
 Gail Shumacher, M.A., Instructor in Speech-Communication
 Robert Silber, Ph.D., Associate Professor of Mathematics
 Sofus Emmelo Simonsen, Ph.D., Associate Professor of Foreign Languages and Literatures
 Ronald D. Simpson, Ed.D., Associate Professor of Mathematics and Science Education
 Edward Carroll Sisler, Ph.D., Associate Professor of Biochemistry and Crop Science
 Charles Smallwood, Jr., M.S., Professor of Civil Engineering
 Arthur M. Smith, M.B.A., Visiting Instructor in Economics and Business
 Farmer Sterling Smith, Ed.D., Associate Professor of Industrial and Technical Education
 Frank James Smith, Ph.D., Associate Professor of Psychology
 Gilbert Graves Smith, Ph.D., Associate Professor of Foreign Languages and Literatures
 J. C. Smith, Ph.D., Associate Professor of Civil Engineering
 Norwood Graham Smith, M.A., Associate Professor of English
 Ronald Ernest Sneed, Ph.D., Extension Associate Professor of Biological and Agricultural Engineering
 Wesley Edwin Snyder, Ph.D., Assistant Professor of Electrical Engineering
 Marvin S. Soroco, Ph.D., Associate Professor of Political Science

Russell Melvin Southall, Ph.D., Associate Professor of Horticultural Science
 Robert S. Sowell, Ph.D., Associate Professor of Biological and Agricultural Engineering
 Jason Loy Sox, Jr., Ph.D., Assistant Professor of Mathematics
 Marvin Luther Speck, Ph.D., William Neal Reynolds Professor of Food Science and Microbiology
 Harvey Wesley Spurr, Jr., Ph.D., Professor (USDA) of Plant Pathology
 Edward M. Stack, Ph.D., Professor of Foreign Languages and Literatures
 Clayton Lee Stainaker, M.A., Instructor in University Studies and Philosophy and Religion
 Ephraim Stam, Ph.D., Associate Professor of Nuclear Engineering
 Donald Henry John Steensen, Ph.D., Associate Professor of Forestry and Wood and Paper Science
 Allen Frederick Stein, Ph.D., Associate Professor of English
 Gregory Lynn Stephenson, M.A., Instructor in English
 Bill Junior Stines, M.S., Assistant Professor of Statistics
 Ernest Lester Stitzinger, Ph.D., Associate Professor of Mathematics
 David Lewis Strider, Ph.D., Professor of Plant Pathology
 Charles Wilson Suggs, Ph.D., Professor of Biological and Agricultural Engineering
 Turner Bond Sutton, Ph.D., Assistant Professor of Plant Pathology
 Harold Everett Swaisgood, Ph.D., Professor of Food Science and Biochemistry
 William Lawrence Switzer, Ph.D., Assistant Professor of Chemistry

T

Fred Russell Tarver, Jr., Ph.D., Extension Professor of Food Science
 Alan Lee Tharp, Ph.D., Associate Professor of Computer Science
 Elizabeth C. Theil, Ph.D., Associate Professor of Biochemistry
 Frank Bancroft Thomas, Ph.D., Extension Professor of Food Science
 Randall J. Thomson, Ph.D., Assistant Professor of Sociology and Anthropology
 Mary Ann Tolbert, Ph.D., Assistant Professor of Philosophy and Religion
 Allen Tough, Ph.D., Visiting Professor of Adult and Community College Education
 Samuel B. Tove, Ph.D., William Neal Reynolds Professor of Animal Science and Biochemistry and Head of Biochemistry
 Hedwig Hirschmann Tyantaphyhou, Ph.D., Professor of Plant Pathology
 Kay Michael Troost, Ph.D., Assistant Professor of Sociology and Anthropology
 Robert Timmen Trexler, M.I.A., Assistant Professor of Occupational Education
 Ted Lee Tsui, Ph.D., Assistant Professor of Meteorology
 Harry Tucker, Jr., Ph.D., Associate Professor of Foreign Languages and Literatures
 William Preston Tucker, Ph.D., Professor of Chemistry
 Chi Chao Tung, Ph.D., Professor of Civil Engineering
 Lynn Gilbert Turner, Ph.D., Assistant Professor of Food Science

U

David Frederick Ulrich, Ph.D., Assistant Professor of Mathematics
 Mehmet Ensar Uyanik, Ph.D., Professor of Civil Engineering
 Odell Uzzell, Ph.D., Associate Professor of Sociology and Anthropology

V

James Claire VanderKam, Ph.D., Assistant Professor of Philosophy and Religion
 William John Vanderwall, Ph.D., Assistant Professor of Freshman Engineering Division
 Albert Donald VanDeVeer, Ph.D., Associate Professor of Philosophy
 Cecil Gerald Van Dyke, Ph.D., Assistant Professor of Plant Pathology and Botany
 Maurice E. Voland, Ph.D., Professor of Sociology and Anthropology

W

George Henry Wahl, Jr., Ph.D., Professor of Chemistry
 Harvey Edward Wahls, Ph.D., Professor and Graduate Administrator of Civil Engineering
 Gary E. Wall, M.S., Lecturer in Physical Education
 James Macaulay Wallace, Ph.D., Assistant Professor of Sociology and Anthropology
 Arthur Walter Waltner, Ph.D., Professor of Physics
 William Mood Walter, Jr., Ph.D., Professor (USDA) of Food Science
 Thomas Marsh Ward, Ph.D., Assistant Professor of Chemistry
 Frederick Gail Warren, Ph.D., Professor of Food Science
 John Warren, M.E.S., Visiting Instructor in Statistics
 Marlin Roger Warren, Jr., Dr. of Rec., Professor of Recreation Resource Administration
 William Meade Waters, Jr., Ph.D., Associate Professor of Mathematics and Science Education and Mathematics
 Larry Wayne Watson, Ed.D., Associate Professor of Mathematics and Science Education
 Gerald Francis Watson, Jr., Ph.D., Associate Professor of Meteorology
 Benjamin Davis Webb, M.S., Instructor in Freshman Engineering
 Frederick Lovejoy Wellman, Ph.D., Professor Emeritus of Plant Pathology
 J.C. Wells, M.S.A., Extension Professor of Plant Pathology
 Ronald Earle Welty, Ph.D., Professor (USDA) of Plant Pathology
 Dennis William Wertz, Ph.D., Associate Professor of Chemistry
 Harry Carter West, Ph.D., Associate Professor of English

Bert Whitley Westbrook, Ed D, Professor of Psychology
Philip W. Westerman, Ph D, Assistant Professor of Biological and Agricultural Engineering
Robert Ernest White, Ph D, Assistant Professor of Mathematics
James Oliver Williams, Ph D, Associate Professor of Political Science
Michael Williams, M S, Instructor in Biological Sciences
Daniel Hoover Willits, Ph D, Assistant Professor in Biological and Agricultural Engineering
Jack Wilfred Wilson, Ph D, Associate Professor of Economics and Business
James Blake Wilson, Ph D, Associate Professor of Mathematics
John Henry Wilson Jr., M S, Extension Associate Professor of Horticultural Science and Plant Pathology and Pesticide Education Specialist
Edward Hempstead Wisner, Ph D Professor of Biological and Agricultural Engineering

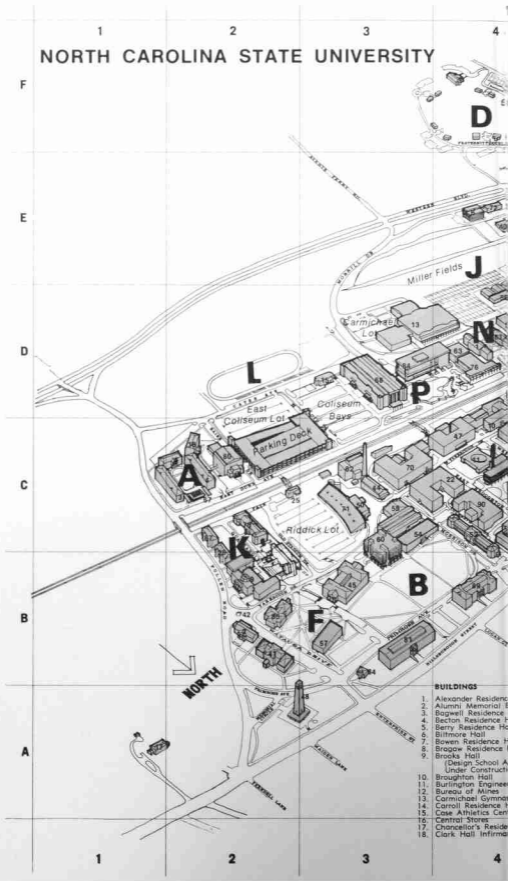
Y

Clyde Thomas Young, Ph D, Associate Professor of Food Science
James Herbert Young, Ph D, Professor of Biological and Agricultural Engineering
Robert Vaughan Young, Jr., Ph D, Assistant Professor of English
Talmadge Brian Young, Ed D Associate Professor of Occupational Education

Z

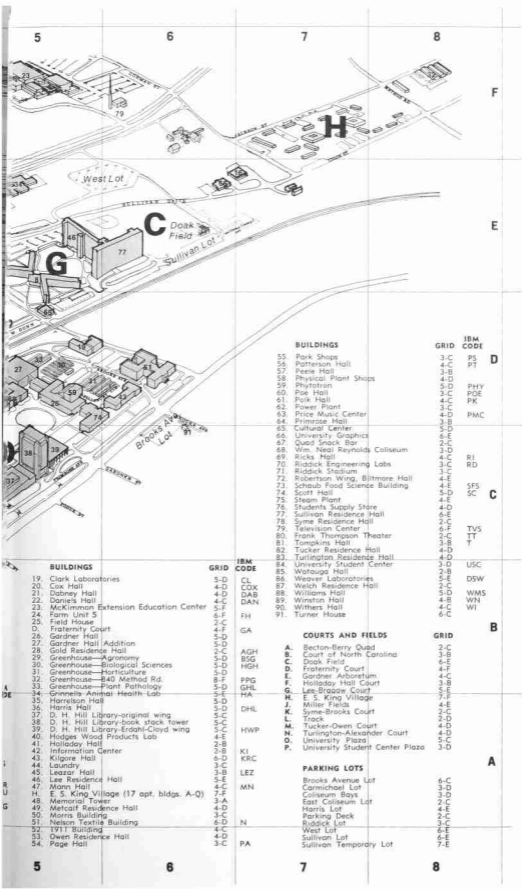
Paul Zung-Teh Zia, Ph.D, Professor and Associate Head of Civil Engineering
Matthew T. Zingraff, Ph D, Assistant Professor of Sociology and Anthropology

NORTH CAROLINA STATE UNIVERSITY



BUILDINGS

1. Alexander Residence
2. Alumni Memorial B
3. Bagwell Residence H
4. Becton Residence H
5. Berry Residence H
6. Biltmore Hall
7. Bowen Residence H
8. Bragg Residence H
9. Brooks Hall
(Design School A
Under Construct)
10. Broughton Hall
11. Burlington Engineer
12. Bureau of Mines
13. Carmichael Gymnas
14. Carroll Residence H
15. Case Athletics Cent
16. Central Stores
17. Chancellor's Reside
18. Clark Hall Infirmar



BUILDINGS	GRID	IBM CODE
19. Clark Laboratories	5-D	
20. Cox Hall	4-D	
21. Dabney Hall	4-D	
22. Daniels Hall	5-D	
23. McKinnon Extension Education Center	5-F	
24. Farm Unit 5	2-C	
25. Field House	4-F	
26. D. Fraternity Court	3-D	
27. Gardner Hall	3-D	
27. Gardner Hall Addition	3-D	
28. Gold Residence Hall	2-C	
29. Greenhouse—Agronomy	3-D	
30. Greenhouse—Biological Sciences	3-D	
31. Greenhouse—Horticulture	3-D	
32. Greenhouse—B40 Method Rd.	5-D	
33. Greenhouse—Plant Pathology	3-D	
34. Grinnell Animal Health Lab	3-E	
35. Harrison Hall	3-D	
36. Harris Hall	3-D	
37. D. H. Hill Library—original wing	3-C	
38. D. H. Hill Library—book stack tower	3-C	
39. D. H. Hill Library—Erdahl-Clayd wing	3-C	
40. Hodges Wood Products Lab	4-E	
41. Holiday Hall	2-B	
42. Information Center	2-B	
43. Kilgore Hall	3-C	
44. Laundry	3-C	
45. Leazar Hall	3-B	
46. Lee Residence Hall	3-E	
47. Mann Hall	4-C	
H. E. S. King Village (17 apt. bldgs. A-O)	7-F	
48. Memorial Tower	3-A	
49. Metcalf Residence Hall	4-D	
50. Morris Building	3-C	
51. Nelson Textile Building	4-C	
52. 1911 Building	4-C	
53. Owen Residence Hall	4-D	
54. Page Hall	3-C	

BUILDINGS	GRID	IBM CODE
55. Park Shops	3-C	PS
56. Polkness Hall	4-C	PT
57. Peete Hall	3-B	
58. Physical Plant Shops	4-D	
59. Phytotron	5-D	PHY
60. Poe Hall	3-C	POE
61. Polk Hall	4-C	PK
62. Power Plant	3-C	
63. Price Music Center	4-C	PMC
64. Primrose Hall	3-B	
65. Cultural Center	5-D	
66. University Graphics	5-D	
67. Quad Snack Bar	2-C	
68. Wm. Neal Reynolds Coliseum	3-D	
69. Ricks Hall	4-C	
70. Riddick Engineering Labs	3-C	
71. Riddick Stadium	3-C	
72. Robertson Wing, Biltmore Hall	3-C	
73. Schaub Food Science Building	4-E	
74. Scott Hall	5-D	
75. Steam Plant	4-E	
76. Students Supply Store	4-D	
77. Sullivan Residence Hall	6-E	
78. Syme Residence Hall	2-C	
79. Television Center	6-C	
80. Frank Thompson Theater	2-C	
81. Tompkins Hall	3-B	
82. Tucker Residence Hall	4-D	
83. Turlington Residence Hall	4-D	
84. University Student Center	3-D	USC
85. Watouga Hall	2-B	
86. Weaver Laboratories	5-E	DSW
87. Welch Residence Hall	2-C	
88. Williams Hall	5-D	
89. Winston Hall	4-B	WMS
90. Withers Hall	4-C	WN
91. Turner House	6-C	WI

COURTS AND FIELDS	GRID
A. Becton-Berry Quad	2-C
C. Court of North Carolina	3-B
C. Doak Field	6-E
D. Fraternity Court	4-F
E. Gardner Arboretum	4-C
F. Holiday Hall Court	3-B
G. Lee-Brigaw Court	3-E
H. E. S. King Village	7-E
J. Miller Fields	7-E
K. Syme-Brooks Court	2-C
L. Track	2-D
M. Tucker-Owen Court	4-D
N. Turlington-Alexander Court	4-D
O. University Plaza	5-C
P. University Student Center Plaza	3-D

PARKING LOTS	GRID
Brooks Avenue Lot	6-C
Carmichael Lot	3-D
Coliseum Bays	3-D
East Coliseum Lot	2-C
Harris Lot	4-E
Parking Deck	2-C
Riddick Lot	3-C
West Lot	6-E
Sullivan Lot	6-E
Sullivan Temporary Lot	7-E

STANDARD MAIL PERMIT NO. 1000 RALEIGH, N.C. POSTAGE WILL BE PAID BY ADDRESSEE

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