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ENJOY
A COOL
SUMMER
AT UNC-G
LLOYD PILLEA

Summer Session

June 6 through August 23, 1968

GENERAL INFORMATION

The summer session is designed to allow regular students an opportunity accelerate their college work or make up deficiencies; to encourage new stude to begin their college careers early, to furnish teachers an opportunity to ren their certificates or broaden their general knowledge and skills; and to provi opportunities for persons with specific interests to attend college for sh periods of time.

GRADING

Reports at the end of each term will be based upon the following gradi system:

A Excellent
B Good
C Fair
D Passed
F Failed
I Incomplete
W Official Withdrawal

ATTENDANCE

Regular attendance in all classes is required.

LIBRARY

The college library will be open for the use of college students from 8:00 a to 9:00 p.m. Monday through Friday and from 2:00 p.m. to 6:00 p.m. on Sunda

CALENDAR

FIRST TERM

June 6- 7 – Thursday-Friday, Advising and registration (Schedule to be fu nished by Office of Records and Registration)
June 10 – Monday, First day of classes
June 12 – Wednesday, Last day for registration and last day to withdra (or drop a course) with refund
June 14 – Friday, Last day to drop courses without grade evaluation
July 8-10 – Monday-Wednesday, Preregistration for new students entering the Fall Semester 1968
July 12 – Friday, Last day of classes
July 15-16 – Monday-Tuesday, Final examinations

COURSES OFFERED

NOTE: PLEASE READ WITH CARE

1. The administration reserves the right to withdraw courses with insufficie enrollment. Courses may be added if there is sufficient demand.
2. Semester hour credits for each course are given in parentheses followir the name of the course. An N after the course number indicates the cours is taught at night.
3. A three semester hour course in the summer requires three times the dai pace as one during the regular semester. It is expected that each stude register for not more than seven semester hours of credit per term.
4. Classes meet daily, Monday through Friday, except where specified to t contrary.
5. Letters used to refer to buildings:
   A – Academic Building "A"
   C – Academic Building "C"
   K – Kennedy Building
   L – Liberal Arts Building
   U – University Union
   E – Engineering-Math-Computer Building

EXPENSES

The rates for each of the 1968 summer terms are based on the number semester hours taken by each student and include fees.

No extra fees are charged for laboratory courses as such. However, whe individual music study is offered, an extra fee is charged in the amount c $45.00 per term for one hour credit.

A parking fee of $4.00 is charged for the summer session. This fee is ap plicable for a term if one elects to attend only one term.

The University reserves the right to make, with the approval of the prope authorities, changes in tuition and other fees at any time.

FEES

	In-State Students	Out of State Students
2 - Semester Hours (Minimum)	$31.50	$ 62.17
3 - Semester Hours	39.50	85.50
4 - Semester Hours	47.50	108.83
5 - Semester Hours	55.50	132.17
6 - Semester Hours	63.50	155.50
7 - Semester Hours	71.50	178.83

EFUND OF FEES

A student who officially withdraws from the University on or before the third ay of classes in each summer session will receive a refund of the full amount aid less a registration fee of $10. After the period specified, no refund will be ade.

SCHEDULE OF COURSES FOR THE FIRST TERM

June 6 – July 16

OURSE NO.	TITLE	TIME	ROOM NO.
	BIOLOGY		
101	Introductory Biology (4)	12:30- 2:00	K107
	Laboratory (T, W, Th.)	2:10- 5:00	K221
305	Ecology (4) (M-Th.)	12:30- 2:00	K202
	Laboratory (M, T, W, Th)	2:10- 5:00	K220
	BUSINESS ADMINISTRATION		
201	Principles of Accounting (3)	8:00- 9:30	C103
	Laboratory (M)	2:30- 4:00	A109
311	Marketing (3)	8:00- 9:30	C113
380	Business Law (3)	10:00-11:30	C106
	CHEMISTRY		
101	General Chemistry (4)	12:30- 2:00	C109
	Laboratory (T,W,Th)	2:10- 5:00	K320
203	Organic Chemistry (4)	12:30- 2:00	K102
	Laboratory (T,W,Th)	2:10- 5:00	K313
303	Quantitative Analysis (4)	12:30- 1:30	C103
	Laboratory (M,T,W)	1:40- 5:30	K309
	Laboratory (Th,F)	1:40- 4:30	K309
	ECONOMICS		
201	Principles of Economics (3)	10:00-11:30	C113
305	Industrial Relations (3)	12:30- 2:00	C113
480	Government and Business (3)	10:00-11:30	C102
	EDUCATION		
201	Introduction to Education (3)	8:00- 9:30	C216
304	Philosophy of Education (3)	10:00-11:30	C216
400a	Individualized Instruction Through Team Teaching (3) (Association for Childhood Education Workshop, June 17-June 28)	8:30- 3:00	Winterfield School
402	Methods of Teaching in Secondary School (3)	12:30- 2:00	C216
	ENGINEERING		
EE 211	Resistive Networks I (3)	8:00- 9:30	E228
EM 211	Mechanics I (3)	12:30- 2:00	E228
	ENGLISH		
101	English Composition (3)	10:00-11:30	A209
101N	English Composition (3)	7:40- 9:10	A209
102	English Composition (3)	8:00- 9:30	A209
201	English Literature (3)	8:00- 9:30	A208
201N	English Literature (3)	6:00- 7:30	A208
203	Masterpieces of Modern Fiction (3)	10:00-11:30	A208
313	Milton (3)	10:00-11:30	A211
332	English Grammer (3)	12:30- 2:00	A211
341	American Literature (3)	8:00- 9:30	A211

COURSE NO.	TITLE	TIME	ROOM NO.
	FINE ARTS		
Art			
201	Art Appreciation (3)	10:00-11:30	C122
203	Basic Design (3) (M,T,W,Th)	2:10- 5:00	A103
204	Basic Drawing (3) (M,T,W,Th)	2:10- 5:00	A103
Music			
207	Music Appreciation (3)	12:30- 2:00	C220
309	Seminar in Music Education (3)	10:00-11:30	C220
Speech and Theatre			
201	Oral Interpretation (3)	10:00-11:30	C109
203	Argumentation and Debate (3)	8:00- 9:30	C109
	FRENCH		
101	Elementary French (3)	12:30- 2:00	L203
	Laboratory	10:00-10:40	L106
201	Intermediate French (3)	8:00- 9:30	L203
	Laboratory	10:50-11:30	L106
331N	French Phonetics (3)	6:00- 7:30	L203
	GEOGRAPHY		
101N	Physical Geography (4)	6:00- 7:30	E345
	Laboratory (T,Th)	7:40-10:30	E347
307	Geography of Asia (3)	10:00-11:30	E345
314	Conservation and Resource Planning (3)	8:00- 9:30	E345
	GEOLOGY		
201	Physical Geology (4)	12:30- 2:00	E345
	Laboratory (T,Th)	2:10- 5:00	E248
	GERMAN		
101	Elementary German (3)	8:00- 9:30	L205
	Laboratory	10:00-10:40	L106
201	Intermediate German (3)	12:30- 2:00	L205
	Laboratory	10:50-11:30	L106
	HISTORY		
101	Modern Western Civilization to 1815 (3)	12:30- 2:00	C105
101N	Modern Western Civilization to 1815 (3)	7:40- 9-10	C105
102	Modern Western Civilization from 1815 to the Present (3)	10:00-11:30	C105
201	American History (3)	8:00- 9:30	C105
202	American History (3)	8:00- 9:30	C114
305N	Ancient History (3)	6:00- 7:30	C114
318	Twentieth Century Europe, 1914 to the Present (3)	12:30- 2:00	C114
336	Origins of the American Constitution (3)	10:00-11:30	C114
362	Modern Britain, 1485-1789 (3)	8:00- 9:30	C117
381	History of Latin America (3)	10:00-11:30	C115
	HUMANITIES		
350b	Topics in Humanities: Renaissance Thought and Expression (3)	10:00-11:30	A205
	MATHEMATICS		
101	Elementary Algebra (3)	8:00- 9:30	E218
101N	Elementary Algebra (3)	6:00- 7:30	E218
102	Elementary Analysis (3)	12:30- 2:00	E218
103	Algebra (3)	10:00-11:30	E218
132	Introduction to Computing Techniques (1) (T,Th)	2:10- 5:00	E218
*141	Introductory Analysis I (4)	8:00- 9:15	E203
*142	Introductory Analysis II (4)	10:00-11:15	E229
221	Introduction to Probability and Statistics I (3)	12:30- 2:00	E229
222N	Introduction to Probability and Statistics II (3)	7:40- 9:10	E229
237	Introduction to Algorithmic Processes (3)	10:00-11:30	E301
450H	Logic (3)	8:00- 9:30	E301
	PHILOSOPHY		
201	Introduction to Philosophy (3)	10:00-11:30	C203
350a	Metaphysics (3)	12:30- 2:00	C203
402	Philosophy of the East (3)	8:00- 9:30	C203

*Through both terms

COURSE NO.	TITLE	TIME	ROOM NO.
	PHYSICS		
101N	Introductory Physics I (4)	6:00- 7:30	K102
	Laboratory (T, W, Th)	7:40-10:30	K113
202N	Foundations of Physics II (4)	6:00- 7:30	K202
	Laboratory (T, W, Th)	7:40-10:30	K120
	POLITICAL SCIENCE		
201	Introduction to American Politics (3)	10:00-11:30	A107
375	American Foreign Policy (3)	12:30- 2:00	A107
	PSYCHOLOGY		
201	General Psychology (4)	12:30- 2:00	E102
	Laboratory (T, Th)	2:10- 5:00	E103
203	Psychology of Adjustment (3)	10:00-11:30	E102
	RELIGION		
405	Theology and Contemporary Literature (3)	10:00-11:30	C117
	SOCIOLOGY		
201	General Sociology (3)	10:00-11:30	A106
201	General Sociology (3)	12:30- 2:00	A106
310	American Minority Groups (3)	8:00- 9:30	A106
491	Seminar for Majors in Sociology (3)	12:30- 2:00	A105
	SPANISH		
101	Elementary Spanish (3)	12:30- 2:00	L210
	Laboratory	10:00-10:40	L106
201	Intermediate Spanish (3)	8:00- 9:30	L210
	Laboratory	10:50-11:30	L106
309N	Spanish Civilization and Culture (3)	6:00- 7:30	L210

SHORT COURSES AND WORKSHOPS

ASSOCIATION FOR CHILDHOOD EDUCATION – **June 17 - June 28**

400a or 267M	Individualized Instruction Through Team Teaching (3)	8:30- 3:00	Winterfield School

ART - **June 24 - July 12**

320	General Crafts (3)	9:00-11:30	Union
		1:00- 3:00	Union
330	Sculpture (3)	9:00-11:30	Union
		1:00- 3:00	Union

ART - **July 15 - August 2**

205	Painting (3)	9:00-11:30	A103
		1:00- 3:00	A103
405	Advanced Painting (3)	9:00-11:30	A103
		1:00- 3:00	A103

VOCATIONAL GUIDANCE INSTITUTE – **July 22 - August 2**

The University of North Carolina at Charlotte, in cooperation with the North Carolina Good Neighbor Council and the Plans for Progress, will sponsor an institute for school personnel who work with minority youth.

Dr. Ronald B. Simono, Director of Counseling Services and Assistant Professor of Psychology, will direct the program.

UNC CHAPEL HILL EXTENSION COURSES

These courses in the graduate curriculum of the University of North Carolina at Chapel Hill will be offered on the Charlotte campus through the Extension Division. The 100-level courses are open to advanced undergraduates. For information about registration, costs, etc., write:

Dr. Ben H. Hackney
Department of Education
University of North Carolina at Charlotte
P. O. Box 12665
Charlotte, North Carolina 28205

	EDUCATION		
135	Audiovisual Instruction: Techniques & Materials (3)	10:00-11:30	A206
150	Early Childhood Education (3)	8:00- 9:30	A206
151	Curriculum: Methods and Materials of Early Childhood Education (3)	10:00-11:30	A207

COURSE NO.	TITLE	TIME	ROOM NO.
156	Arithmetic in the Elementary School (3)	10:00-11:30	C205
160	The School Curriculum (3)	12:30- 2:00	C105
165	Improvement in Reading (3)	12:30- 2:00	C205
171	Growth and Development of the School Child (3)	10:00-11:30	C105
180	Introduction to the Study of Exceptional Children (3)	8:00- 9:30	C105
267M	Education Workshop: Individualized Instruction Through Team Teaching (3) June 17 - June 28 (Association for Childhood Education Workshop)	8:30- 3:00	Winterfield School

SECOND TERM

July 17	Wednesday	Advising and registration (Schedule to be furnished by Office of Records and Registration)
July 18	Thursday	First day of classes
July 22	Monday	Last day of registration and last day to withdraw (or drop a course) with refund
July 24	Wednesday	Last day to drop courses without grade evaluation
August 12-14	Monday - Wednesday	Preregistration for new students entering in the Fall Semester 1968
August 21	Wesnesday	Last day of classes
August 22-23	Thursday - Friday	Final examinations

SCHEDULE OF COURSES FOR THE SECOND TERM

July 17 - August 23

COURSE NO.	TITLE	TIME	ROOM NO.
	BIOLOGY		
201	Plant Morphology (4)	12:30- 2:00	K107
	Laboratory (T, W, Th)	2:10- 5:00	K201
203	Microbiology (4)	12:30- 2:00	K202
	Laboratory (T, W, Th)	2:10- 5:00	K215
	BUSINESS ADMINISTRATION		
202	Principles of Accounting (3)	8:00- 9:30	C103
	Laboratory (M)	2:30- 4:00	A109
316	Financial Management (3)	8:00- 9:30	C113
371	Cost Accounting (3)	10:00-11:30	C106
	Laboratory (M)	2:30- 4:00	C105
	CHEMISTRY		
102	General Chemistry (4)	12:30- 2:00	C109
	Laboratory (T, W, Th)	2:10- 5:00	K320
204	Organic Chemistry (4)	12:30- 2:00	K102
	Laboratory (T, W, Th)	2:10- 5:00	K313
	ECONOMICS		
202	Principles of Economics (3)	10:00-11:30	C113
	EDUCATION		
201N	Introduction to Education (3)	6:00- 7:30	C216
301	Reading and the Language Arts (3)	12:30- 2:00	C216
303	Elementary Education I: Organization and Curriculum (3)	10:00-11:30	C216
304N	Philosophy of Education (3)	7:40- 9:10	C216
	ENGINEERING		
EE 212	Resistive Networks II (3)	8:00- 9:30	E228
EM 214	Mechanics of Materials (3)	12:30- 2:00	E228
	ENGLISH		
102	English Composition (3)	8:00- 9:30	A209
102N	English Composition (3)	7:40- 9:10	A209
201	English Literature (3)	10:00-11:30	A209
202	English Literature (3)	12:30- 2:00	A209
203	Masterpieces of Modern Fiction (3)	8:00- 9:30	A208
204N	Major American Writers (3)	6:00- 7:30	A208
312	Shakespeare (3)	12:30- 2:00	A208
342	American Literature Since 1890 (3)	10:00-11:30	A208

COURSE NO.	TITLE	TIME	ROOM NO.
	FINE ARTS		
Art			
201	Art Appreciation (3)	10:00-11:30	C122
302	Art for Elementary Teachers (3) (M, T, W, Th)	2:10- 5:00	A102
Music			
207	Music Appreciation (3)	10:00-11:30	C220
309	Seminar in Music Education (3)	12:30- 2:00	C220
Speech and Theatre			
101	Fundamentals of Speech (3)	8:00- 9:30	C109
211	Theatre Workshop (2)	10:00-11:30	C109
	FRENCH		
102	Elementary French (3)	12:30- 2:00	L203
	Laboratory	10:00-10:40	L106
202	Intermediate French (3)	8:00- 9:30	L203
	Laboratory	10:50-11:30	L106
	GEOLOGY		
202	Historical Geology (4)	12:30- 2:00	E345
	Laboratory (T, Th)	2:10- 5:00	E248
	GERMAN		
102	Elementary German (3)	8:00- 9:30	L205
	Laboratory	10:00-10:40	L106
202	Intermediate German (3)	12:30- 2:00	L205
	Laboratory	10:50-11:30	L106
	HEALTH EDUCATION		
409	Health Education Laboratory (3)	8:00- 9:30	E327
	HISTORY		
101	Modern Western Civilization to 1815 (3)	8:00- 9:30	C105
102	Modern Western Civilization from 1815 to the Present (3)	10:00-11:30	C105
102N	Modern Western Civilization from 1815 to the Present (3)	6:00- 7:30	C105
202	American History (3)	8:00- 9:30	C114
343	Colonial America (3)	10:00-11:30	C114
402	French Revolution and Napoleon (3)	12:30- 2:00	C114
	MATHEMATICS		
101	Elementary Algebra (3)	12:30- 2:00	E218
102	Elementary Analysis (3)	8:00- 9:30	E218
102N	Elementary Analysis (3)	6:00- 7:30	E218
104	Vector Algebra (3)	10:00-11:30	E218
221N	Introduction to Probability and Statistics I (3)	7:40- 9:10	E218
222	Introduction to Probability and Statistics II (3)	12:30- 2:00	E229
233	Digital Computing Techniques A (1) (T, Th)	2:10- 5:00	E218
350P	Programming Language for Computers (3)	10:00-11:30	E301
	Laboratory (W)	2:10- 5:00	E301
450i	Matrices (3)	8:00- 9:30	E301
	PHILOSOPHY		
205	Introduction to Logic and Scientific Method (3)	8:00- 9:30	C203
305	Contemporary Philosophy (3)	10:00-11:30	C203
	POLITICAL SCIENCE		
450	The Politics of the International Socialist System (3)	12:30- 2:00	A107
	PHYSICAL EDUCATION		
409	Physical Education Laboratory (3)	10:00-11:30	E203
	PHYSICS		
102N	Introductory Physics (4)	6:00- 7:30	K102
	Laboratory (T, W, Th)	7:40-10:30	K113
	PSYCHOLOGY		
201	General Psychology (4)	12:30- 2:00	E102
	Laboratory (T, Th)	2:10- 5:00	E103
202	Educational Psychology (3)	10:00-11:30	E102

COURSE NO.	TITLE	TIME	ROOM NO.
	SOCIOLOGY		
201	General Sociology (3)	8:00- 9:30	A107
302	Social Problems (3)	10:00-11:30	A107
	SPANISH		
102	Elementary Spanish (3)	12:30- 2:00	L210
	Laboratory	10:00-10:40	L106
202	Intermediate Spanish (3)	8:00- 9:30	L210
	Laboratory	10:50-11:30	L106

For further information regarding application write to:

Mr. L. Robert Grogan
Director of Admissions and Registration
University of North Carolina at Charlotte
P. O. Box 12665
Charlotte, North Carolina 28205

For general information regarding course offerings write to:

Dr. Seth H. Ellis
Office of Academic Affairs
University of North Carolina at Charlotte
P. O. Box 12665
Charlotte, North Carolina 28205

THE UNIVERSITY OF NORTH CAROLINA
At Charlotte
P. O. Box 12665
Charlotte, North Carolina 28205

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SUMMER SCHOOL 1969

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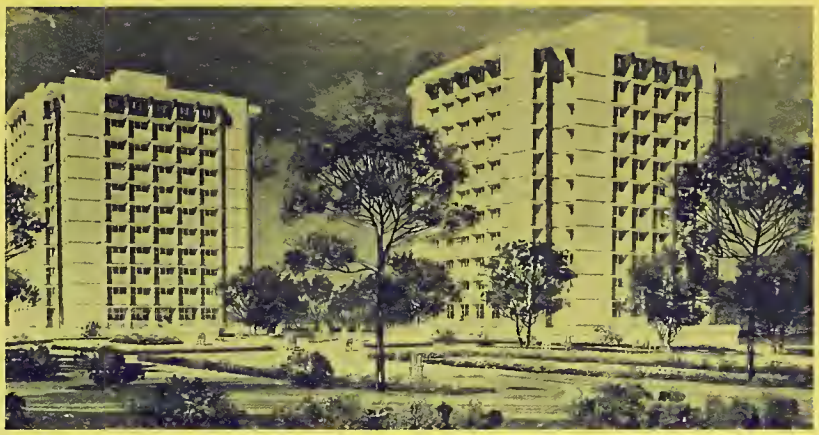

open in September

The University of North Carolina at Charlotte

SUMMER SESSION

June 9 through August 27, 1969

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CALENDAR

FIRST TERM

June 9	Monday	Advising and registration
June 10	Tuesday	First day of classes
June 12	Thursday	Last day for registration and last day to withdraw (or drop a course) with refund
June 16	Monday	Last day to drop courses without grade evaluation
July 4	Friday	Holiday
July 7–9	Monday–Wednesday	Preregistration for second summer term
July 15	Tuesday	Last day of classes
July 16–17	Wednesday–Thursday	Final examinations

SCHEDULE OF COURSES FOR THE FIRST TERM

June 9 – July 17

COURSE NO.	TITLE	TIME	ROOM NO.
BIOLOGY			
101	Introductory Biology (4)	12:30- 2:00	K107
	Laboratory (T, W, Th.)	2:10- 5:00	K201
403	Radioisotope Technology (4) (M–Th.)	12:30- 2:00	K202
	Laboratory (M, T, W, Th.)	2:10- 5:00	K214
309	Human Genetics (3)	12:30- 2:00	K102
BUSINESS ADMINISTRATION			
201	Principles of Accounting (3)	8:00- 9:30	C103
	Laboratory (M)	2:30- 4:30	A109
371	Cost Accounting (3)	10:00-11:30	C103
	Laboratory (T)	2:30- 4:30	C102
380	Business Law (3)	8:00- 9:30	C102
400	Production Management (3)	10:00-11:30	C102
CHEMISTRY			
101	General Chemistry (4)	12:30- 2:00	C109
	Laboratory (T, W, Th.)	2:10- 5:00	K320
203	Organic Chemistry (4)	12:30- 2:00	K310
	Laboratory (T, W, Th.)	2:10- 5:00	K313
ECONOMICS			
201-1	Principles of Economics (3)	8:00- 9:30	C205
201-2	Principles of Economics (3)	10:00-11:30	C205
305	Industrial Relations (3)	12:30- 2:00	C118
480	Government and Business (3)	10:00-11:30	C118
EDUCATION			
201	Introduction to Education (3)	10:00-11:30	C216
301	Reading and the Language Arts (3)	10:00-11:30	C106
303	Elem. Education I: Organization and Curriculum (3)	8:00- 9:30	C216
402	Methods of Teaching in Secondary Schools (3)	12:30- 2:00	C216
ENGINEERING			
EE 211	Linear Networks I (3)	8:00- 9:30	S352

COURSE NO.	TITLE	TIME	ROOM NO.
EE 211	Mechanics I (3)	12:30- 2:00	S352
ME 311	Thermodynamics I (3)	8:00- 9:30	S227
*E252	Basic Engineering Lab (1)	2:10- 5:00	S326
*Through both terms			
ENGLISH			
101-1	English Composition (3)	8:00- 9:30	A205
101-2	English Composition (3)	10:00-11:30	A205
101N	English Composition (3)	6:00- 7:30	A205
102	English Composition (3)	12:30- 2:00	A205
201-1	English Literature (3)	8:00- 9:30	A206
201-2	English Literature (3)	12:30- 2:00	A206
201N	English Literature (3)	7:40- 9:10	A206
312	Shakespeare (3)	10:00-11:30	A206
321	The Earlier Seventeenth Century (3)	12:30- 2:00	A207
332	English Grammar (3)	8:00- 9:30	A207
461	Modern English Grammar (3)	10:00-11:30	A207
FINE ARTS			
Art			
201	Art Appreciation (3)	10:00-11:30	C120
302	Art for Elementary Teachers (3)	2:00- 5:00	A103
Music			
207	Introduction to Music Literature (3)	8:00- 9:30	A202
307	Music for Elementary Teachers (3)	12:30- 2:00	A202
	Applied Music – Voice	TBA	C218
	Piano	TBA	C201
	Organ	TBA	C207
	(Course number to be assigned in Fine Arts Office)		
Speech and Theatre			
101-1	Fundamentals of Speech (3)	10:00-11:30	C200
101-2	Fundamentals of Speech (3)	12:30- 2:00	C200
FRENCH			
101	Elementary French (3)	12:30- 2:00	L203
	Laboratory	10:00-10:50	L106
201	Intermediate French (3)	8:00- 9:30	L203
	Laboratory	10:00-10:50	L106
309N	French Civilization (3)	7:40- 9:10	L203
GEOGRAPHY			
101N	Earth Science Geography (4)	6:00- 7:30	S345
	Laboratory (T, Th)	7:40-10:30	S347
303	Geography of North America (3)	8:00- 9:30	S345
GEOLOGY			
102	Earth Science Geology (4)	8:00- 9:30	S248
	Laboratory (M, W)	2:10- 5:00	S248
GERMAN			
101	Elementary German (3)	12:30- 2:00	L208
	Laboratory	10:00-10:50	L106
202	Intermediate German (3)	8:00- 9:30	L208
	Laboratory	10:00-10:50	L107
	Laboratory	10:00-10:50	L106
HEALTH EDUCATION			
101	Health Education (1) (M,T,W,Th.)	12:30- 2:00	S203
HISTORY			
101	Modern Western Civilization to 1815 (3)	12:30- 2:00	C105
101N	Modern Western Civilization to 1815 (3)	6:00- 7:30	C105
201	American History to 1865 (3)	8:00- 9:30	C114
202	American History, 1865 to the Present (3)	12:30- 2:00	C114
303	History of Greece (3)	8:00- 9:30	C115
311	Russian History to 1825 (3)	10:00-11:30	C115
381N	History of Latin America (3)	6:00- 7:30	C115
418	European Diplomatic History, 1848 to the present (3)	12:30- 2:00	C115
432	Civil War and Reconstruction, 1860-1877 (3)	10:00-11:30	C117
MATHEMATICS			
101-1	Elementary Algebra (3)	8:00- 9:30	S304
101-2	Elementary Algebra (3)	10:00-11:30	S217
101-N	Elementary Algebra (3)	6:00- 7:30	S204
103	Algebra (3)	10:00-11:30	S304
132	Introduction to Computing Techniques (2) (M, W, F)	2:30- 5:10	S229
*141	Introductory Analysis I (4)	8:00- 9:15	S301
*141-N	Introductory Analysis I (4)	6:00- 7:15	S301
*142	Introductory Analysis II (4)	10:00-11:15	S301
221	Introduction to Probability and Statistics I (3)	12:30- 2:00	S204
221-N	Introduction to Probability and Statistics I (3)	7:40- 9:10	S204
237	Introduction to Algorithmic Processes (3)	12:30- 2:00	S229

*Through both terms

NURSING

102	Ecology of Man I (3)	1:00- 2:30	A112
201	Fundamentals of Nursing I (4)	11:00-12:00	A112
	Laboratory	7:30-10:30	*
			*M. Hosp.

PHILOSOPHY

402	Philosophy of the East (3)	8:00- 9:30	C118

PHYSICAL EDUCATION

409	Physical Education Laboratory (3)	8:00- 9:30	S203

PHYSICS

101N	Introductory Physics I (4)	6:00- 7:30	K107
	Laboratory (T, W, Th.)	7:40-10:30	K113
221N	Particle Dynamics (3)	6:00- 7:30	K120

POLITICAL SCIENCE

202	Introduction of Comparative Politics(3)	12:30- 2:00	A106
450	Cases in American Foreign Policy Making (3)	2:30- 4:00	A106

PSYCHOLOGY

201	General Psychology (4)	10:00-11:30	S102
	Laboratory (T, Th.)	2:10- 5:00	S103
202	Educational Psychology (3)	12:30- 2:00	S102

RELIGION

203	Comparative Religion (3)	10:00-11:30	C213

201-1	Introductory Sociology (3)	8:00- 9:30	A109
201-2	Introductory Sociology (3)	10:00-11:30	A109
310	Minority Groups (3)	8:00- 9:30	A107
410	Research Methods in Social Science (3)	10:00-11:30	A107
	Laboratory (T, Th.)	12:30- 3:30	A107

SPANISH

101	Elementary Spanish (3)	12:30- 2:00	L206
	Laboratory	10:00-10:50	L106
201	Intermediate Spanish (3)	8:00- 9:30	L206
	Laboratory	10:00-10:50	L106
406N	The Golden Age of Spanish Literature II (3)	7:40- 9:10	L108

WORKSHOPS

Association for Childhood Education - July 7—July 18

Ed. 400e	Individualized Instruction through	8:30- 3:00	Hidden
or	Classroom Management and		Valley El.
Ed. 267	Organization (3)		School

The Newspaper in the Classroom - June 16—June 27

Ed. 400f	The Newspaper in the Classroom (2) (Offered for renewal credit, graduate or undergraduate.)	9:00-12:00	TBA

NOTE: For registration information write to —

Mrs. Ann S. Wilson
Workshop Director
Education Center
P. O. Box 249
Charlotte, North Carolina, 28201
Phone : 536-2360, ext. 74

UNC CHAPEL HILL EXTENSION COURSES

These courses in the graduate curriculum of the University of North Carolina at Chapel Hill will be offered on the Charlotte campus through the Extension Division. The 100-level courses are open to advanced undergraduates. For information about registration, costs, etc., write:

Dr. Ben H. Hackney
Department of Education
University of North Carolina at Charlotte
P. O. Box 12665
Charlotte, North Carolina 28205

EDUCATION

Ed. 135	Audiovisual Instruction: Techniques and Materials (3)	10:00-11:30	C105
Ed. 150	Early Childhood Education (3)	12:30- 2:00	
Ed. 151	The Curriculum of Early Childhood Education (3)	2:30- 4-00	
Ed. 160	The School Curriculum (3)	12:30- 2:00	C102
Ed. 171	Growth and Development of the School Child (3)	8:00- 9:30	C105

CALENDAR

SECOND TERM

July 21	Monday	Advising and registration
July 22	Tuesday	First day of classes
July 24	Thursday	Last day of registration and last day to withdraw (or drop a course) with refund
July 28	Monday	Last day to drop courses without grade evaluation
August 25	Monday	Last day of classes
August 26–27	Tuesday–Wednesday	Final examinations

SCHEDULE OF COURSES FOR THE SECOND TERM

July 21 – August 27

COURSE NO.	TITLE	TIME	ROOM NO.
BIOLOGY			
201	Plant Biology (4)	12:30- 2:00	K107
	Laboratory (T, W, Th.)	2:10- 5:00	K201
203	Microbiology (4)	12:30- 2:00	K202
	Laboratory (T, W, Th.)	2:10- 5:00	K215
204	Human Anatomy and Physiology (4)	12:30- 2:00	K102
	Laboratory (T, W, Th.)	2:10- 5:00	K220
326	Field Biology for Secondary School Teachers (4)	12:30- 2:00	K103
	Laboratory (T, W, Th.)	2:10- 5:00	K221
BUSINESS ADMINISTRATION			
202	Principles of Accounting (3)	8:00- 9:30	C103
311	Marketing (3)	12:30- 2:00	C103
316	Financial Management (3)	10:00-11:30	C103
CHEMISTRY			
102	General Chemistry (4)	12:30- 2:00	C109
	Laboratory (T, W, Th.)	2:10- 5:00	K320
204	Organic Chemistry (4)	12:30- 2:00	K310
	Laboratory (T, W, Th.)	2:10- 5:00	K313
ECONOMICS			
202	Principles of Economics (3)	10:00-11:30	C205
315	Money and Banking (3)	8:00- 9:30	C205
324	Managerial Economics (3)	8:00- 9:30	C118

EDUCATION			
201N	Introduction to Education (3)	6:00- 7:30	C216
304N	Philosophy of Education (3)	7:40- 9:10	C216
ENGINEERING			
EE212	Linear Networks II (3)	8:00 9:30	S352
EM212	Mechanics II (3)	12:30- 2:00	S352
ME312	Thermodynamics II (3)	8:00- 9:30	S227
ENGLISH			
102-1	English Composition (3)	8:00- 9:30	A205
102-2	English Composition (3)	10:00-11:30	A205
201	English Literature (3)	8:00- 9:30	A206
202	English Literature (3)	12:30- 2:00	A206
263	Masterpieces of Modern Fiction (3)	10:00-11:30	A206
204	Major American Writers (3)	12:30- 2:00	A207
342	American Literature Since 1890 (3)	8:00- 9:30	A207
401	Literary Criticism (3)	10:00-11:30	A207
FINE ARTS			
Art			
201	Art Appreciation (3)	10:00-11:30	C120
320	General Crafts (3)	2:10- 5:00	U
Music			
208	Introduction to Music Literature (3)	8:00- 9:30	A202
308	Seminar in Music Education (3)	12:30- 2:00	A202
	Applied Music – Piano (Course number to be assigned in Fine Arts Office)	TBA	C201
Speech and Theatre			
101	Fundamentals of Speech (3)	10:00-11:30	C200
201	Oral Interpretation (3)	12:30- 2:00	C200
FRENCH			
102	Elementary French (3)	12:30- 2:00	L203
	Laboratory	10:00-10:50	L106
202	Intermediate French (3)	8:00- 9:30	L203
	Laboratory	10:00-10:50	L106
GEOGRAPHY			
101	Earth Science Geography (4)	12:30- 2:00	S345
	Laboratory (T, Th.)	2:10- 5:00	S347
GERMAN			
102	Elementary German (3)	12:30- 2:00	L208
	Laboratory	10:00-10:50	L106
202	Intermediate German (3)	8:00- 9:30	L208
	Laboratory	10:00-10:50	L107
	Laboratory	10:00-10:50	L106
HEALTH EDUCATION			
409	Health Education Laboratory (3)	8:00- 9:30	S203
HISTORY			
101	Modern Western Civilization to 1815 (3)	10:00-11:30	C105
102	Modern Western Civilization from 1815 to the Present (3)	12:30- 2:00	C105
102N	Modern Western Civilization from 1815 to the Present (3)	6:00- 7:30	C105
202	American History, 1865 to the Present (3)	8:00- 9:30	C105
340	The Frontier in American History (3)	10:00-11:30	C114
361	Britain to 1485 (3)	8:00- 9:30	C114
401	The Age of Absolutism (3)	12:30- 2:00	C114
462	Stuart England, 1603-1714 (3)	10:00-11:30	C115
MATHEMATICS			
102-1	Elementary Analysis (3)	8:00- 9:30	S304
102-2	Elementary Analysis (3)	10:00-11:30	S217
102-N	Elementary Analysis (3)	6:00- 7:30	S204
104	Vector Algebra (3)	10:00-11:30	S304
222	Introduction to Probability and Statistics II (3)	12:30- 2:00	S204
222-N	Introduction to Probability and Statistics II (3)	7:40- 9:10	S204
233	Digital Computing Techniques A (1) (M, Th.)	2:30- 5:10	S229
350P	Programming Languages for Computer (3)	12:30- 2:00	S229
	Laboratory (W)	2:10- 5:00	S229
450a	Topics in Geometry (3)	8:00- 9:30	S303
NURSING			
202	Fundamentals of Nursing II (4)	11:00-12:00	A112
	Laboratory	7:30-10:30	*
			*M. Hosp.
PHILOSOPHY			
201	Introduction to Philosophy (3)	8:00- 9:30	C117
205	Introduction to Logic (3)	10:00-11:30	C117
PHYSICS			
102N	Introductory Physics II (4)	6:00- 7:30	K107

COURSE NO.	TITLE	TIME	ROOM NO.
	Laboratory (T, W, Th.)	7:40-10:30	K113
231N	Electromagnetic Theory I (3)	7:40- 9:10	K107
PSYCHOLOGY			
201	General Psychology (4)	12:30- 2:00	S102
	Laboratory (T, Th.)	2:10- 5:00	S103
203	Psychology of Adjustment (3)	10:00-11:30	S102
RELIGION			
405	Theology and Contemporary Literature (3)	10:00-11:30	C213
SOCIOLOGY			
201	Introductory Sociology (3)	10:00-11:30	A109
203	General Anthropology (3)	8:00- 9:30	A109
491	Concept of Alienation in Sociology (3) (M, T, W)	12:30- 3:00	A107
SPANISH			
102	Elementary Spanish (3)	12:30- 2:00	L206
	Laboratory	10:00-10:50	L106
202	Intermediate Spanish (3)	8:00- 9:30	L206
	Laboratory	10:00-10:50	L106

Applications for admission to the summer program and further information about registration and admissions are available from:

Mr. L. Robert Grogan
Director of Admissions and Registration
University of North Carolina at Charlotte
P. O. Box 12665
Charlotte, North Carolina 28205

For general information regarding course offerings write to:

Dr. Seth H. Ellis
Director of Summer School
University of North Carolina at Charlotte
P. O. Box 12665
Charlotte, North Carolina 28205

Summer School

1970

The

University of

North

Carolina at

Charlotte

CALENDAR

SUMMER SESSION 1970

First Term

June 9	Tuesday	Registration (Last day to register without a late penalty of $5.00)
June 10	Wednesday	Classes begin
June 12	Friday	Last day to register or withdraw (or drop a course) with refund
June 15	Monday	Last day to drop course without grade evaluation
July 1–3	Wednesday–Friday	Pre-registration for second summer session
July 14	Tuesday	Last day of classes
July 15	Wednesday	Reading period
July 16–17	Thursday–Friday	Final Examinations

Second Term

July 21	Tuesday	Registration (Last day to register without a penalty of $5.00)
July 22	Wednesday	Classes begin
July 24	Friday	Last day to register or withdraw (or drop a course) with refund
July 29	Wednesday	Last day to drop a course without grade evaluation
August 25	Tuesday	Last day of classes
August 26	Wednesday	Reading period
August 27–28	Thursday–Friday	Final examinations

GENERAL INFORMATION

The summer session is designed to allow regular students an opportunity to accelerate their college work or to make up deficiencies, to encourage new students to begin their college careers early, to furnish teachers an opportunity to renew their certificates or broaden their general knowledge and skills, and to provide opportunities for persons with specific interests to attend college for short periods of time.

Grading

Reports at the end of each term will be based upon the following grading system:

A Excellent
B Good
C Fair
D Passed
F Failed
I Incomplete
W Official Withdrawal

Attendance

Regular attendance in all classes is required.

Library

The college library will be open for the use of college students from 8:00 a.m. to 11:00 p.m. Monday through Friday, 9:00 a.m. to 5:00 p.m. on Saturday, and from 2:00 p.m. to 11:00 p.m. on Sundays.

COURSES OFFERED

NOTE: PLEASE READ WITH CARE

1. The administration reserves the right to withdraw courses with insufficient enrollment. Courses may be added if there is sufficient demand.
2. Semester hour credits for each course are given in parentheses following the name of the course. An N after the course number indicates the course is taught at night.
3. A three semester hour course in the summer requires three times the daily pace as one during the regular semester. It is expected that each student

register for not more than seven semester hours of credit per term.
4. Classes meet daily, Monday through Friday, except where specified to the contrary.
5. Letters used to refer to buildings:

A – Academic Building "A" K – Kennedy Building
C – Denny Building LA-Liberal Arts Building
D – Academic Building "D" S – Smith Building
U – University Union

EXPENSES

The rates for each of the 1970 summer terms are based on the number of semester hours taken by each student and include fees.

No extra fees are charged for laboratory courses as such. However, when individual music study is offered, an extra fee is charged in the amount of $45.00 per term for one hour credit.

A parking fee of $4.00 is charged for the summer session. This fee is applicable for a term if one elects to attend only one term.

The University reserves the right to make, with the approval of the proper authorities, changes in tuition and other fees at any time.

FEES

	In-State Students	Out of State Students
2-Semester Hours (Minimum)	$36.50	$ 77.17
3-Semester Hours	44.50	105.50
4-Semester Hours	52.50	133.83
5-Semester Hours	60.50	162.17
6-Semester Hours	68.50	190.50
7-Semester Hours	76.50	218.83

REFUND OF FEES

A student who officially withdraws from the University on or before the third day of classes in each summer session will receive a refund of the full amount paid less a registration fee of $10. After the period specified, no refund will be made.

ADMISSIONS

Summer Visitor

The University invites students from other college campuses to take advantage of the summer programs. Applicants from other colleges must have approval from their dean to take courses at the University of North Carolina at Charlotte, and must be in good standing. The University assumes no responsibility in determining a student's course selection when such credits are to be transferred elsewhere.

Enrollment in the Summer Session in no way obligates the University to continue one's enrollment at the University of North Carolina at Charlotte. Those who seek to transfer must complete the application for undergraduate admission and meet the requirements therein. Applicants for admission are required to submit a $10.00 application fee with the application form. The fee is non-deductible and non-refundable.

Applications are expected to be submitted to the Office of Admissions by May 15, 1970, for the first summer term and by July 1, 1970 for the second term.

Summer applicants receive from the Office of Admissions a letter of acceptance.

Freshman Admissions

Freshman applicants must present the following:

1. All information requested on the application form.
2. A non-refundable application fee of $10.00.
3. Record of graduation from an accredited secondary school.

(a) Completion of 16 acceptable units, 13 of which must be in academic

subjects.
(b) Completion of courses as required by the degree program for which the student applies.

4. Satisfactory scores on the Scholastic Aptitude Test of the College Entrance Examination Board.
   (a) The Admissions Committee will consider SAT scores from any of the national testings.
   (b) Each applicant is responsible for having official examination scores sent from the Educational Testing Service to the Admissions Office.
5. Satisfactory evidence of good character, good physical and mental health.
   (a) The applicant is responsible for requesting the principal or counselor of the secondary school to furnish the Admissions Office with a recommendation.
   (b) The required medical form is included in the application and must be received before an application can be considered.
6. The activities card is part of the application and should be returned with the application.

Transfer Admissions

Transfer applicants must present the following:

1. All information requested on the application form.
2. A non-refundable application fee of $10.
3. Official transcript from the high school of graduation.
4. Official transcript showing honorable dismissal and recommendations from each college or university attended.
5. The minimum of an over-all "C" average (2.0 based on A grade being equated at 4 points according to the UNCC method of computation) on all courses taken at institutions attended.
6. Any transfer with less than 24 semester hours of acceptable credit must meet all freshman entrance requirements as well as those listed above.

Transfer within the Consolidated University

Transfer applicants from other campuses of the Consolidated University of North Carolina are considered for admission on the basis of different criteria. As a general rule, students eligible to continue at other campuses of the Consolidated University of North Carolina may transfer to the Charlotte campus so long as their cumulative averages correspond to the averages needed to be eligible at the University of North Carolina at Charlotte and their previous academic work is judged satisfactory and appropriate for the curriculum selected at the University of North Carolina at Charlotte.

Students transferring to the University of North Carolina at Charlotte from other campuses of the Consolidated University of North Carolina will receive credits in accordance with their record with grades and quality points being accepted. As a rule, the student will have the same grade point ratio that he presents.

Transfer from a Junior College

Transfer students entering the University after attending a junior college will receive no more than 66 semester hours transfer credit toward the Bachelor of Arts degree and no more than 70 semester hours toward the Bachelor of Science degree.

GRADUATE STUDIES

The University of North Carolina at Charlotte offers two graduate degree programs, which are directed primarily to the in-service school teachers in the Metrolina area. The Master of Education is designed for elementary and other school personnel. The Master of Arts in Education is designed chiefly for the secondary school teacher, with initial areas of academic concentration in English, history, and mathematics. Additional areas are to be added as rapidly as resources become available.

For admission to graduate study at the University of North Carolina at Charlotte, application must be made on a form supplied by the Director of Graduate Studies and accompanied by appropriate test scores, letters of recommendation, and official transcripts of all academic work taken beyond the high

school. Applicant must possess a bachelor's degree, or its equivalent, have an overall quality point average of 2.50 (on the 4 point system) on all work beyond high school, with an average of 3.0 or better on the major or basic courses prerequisite to the area of proposed graduate study. Applicants for admission to programs leading to the M. Ed. or M. A. Ed. will normally possess a valid North Carolina Class "A" teacher's certificate, or be approved in advance.

At least half of all work offered for an advanced degree must be taken in courses which are open to graduate students only; the other half may be from such courses or from courses open to advanced undergraduates and graduate students. Courses open to graduate students only are listed as 600 to 699. Courses open to both graduate and undergraduate students are preceded by an asterisk.

Requirements for the Master of Education include thirty hours of approved course work, at least twelve of which shall be in professional education, twelve in no more than two content areas, and six in electives approved by the student's advisory committee. Those for the Master of Arts in Education include thirty hours of approved course work, of which at least eighteen must be in a single content area and at least six in professional education. No more than six hours transfer credit will be accepted, except that up to twelve hours may be accepted from another campus of the Consolidated University of North Carolina.

THE RESIDENCE HALLS

The University offers a new concept in on-campus housing. Two residence halls provide a congenial atmosphere for living and learning. The buildings, while housing a large number of students, are designed to provide for the intimacy of small groups as well as for the larger social groupings through which a meaningful living-learning program is developed.

In addition to well planned bedrooms, the halls provide lounges, study and seminar rooms and recreation space – all AIR CONDITIONED for total comfort.

The bedrooms are a combination study and sleeping space for two students. Each student has his own desk with desk lamp and bookshelves, wardrobe, chest of drawers and bed. Rooms may be used for single occupancy when space permits. Two high-speed elevators service each hall, and each suite has a telephone.

Student mail boxes, a vending machine area, a library-lounge, student government offices and the resident manager's apartment are on the main floor. The lower floor contains the recreation room, self-service laundry area, laundry-dry cleaning pickup and delivery room, and trunk storage. Maids and custodians clean bathrooms and public areas daily, and bedrooms weekly. A linen service, which provides 2 sheets, one pillow case, and 3 bath-size towels weekly, is available on a subscription basis at $6.75 plus 4% tax per six-week term.

Charges are prorata amounts of the regular semester charges and for rooms are as follows:

Each student in double room, each 6 week term:	$60.00
Single occupancy of a double room, each 6 week term:	$90.00

Meals will be available 7 days per week on a cash basis in the University cafeteria.

FINANCIAL AIDS

Regularly enrolled UNCC students may apply for financial aid for the summer sessions. All financial aid – scholarships, grants-in-aid, loans, and work study opportunities – is awarded on the basis of financial need. Summer visitors from other campuses are not eligible for financial assistance.

Information and applications may be secured from the office of Financial Aids, Room 112, Administration Building, University of North Carolina at Charlotte, UNCC Station, Charlotte, N. C. 28213.

COUNSELING CENTER

The University Counseling Center, 116 Administration Building, is a psychological service available at no cost to the University community. Staffed by professionally trained counselors and psychologists, the service is designed to assist individuals in developing a more effective and satisfactory adjustment in college life.

Individuals may receive assistance in resolving personal problems, exploring educational and vocational goals, and developing more effective reading and

study skills. Consultation services are available to University groups and agencies.

THE UNIVERSITY UNION

The Union is the community center for all members of the University family – students, faculty, administration, alumni and guests. The Union Building provides for the services, conveniences, and amenities needed in the daily life of members of the University family. It houses the bookstore, cafeteria, games room, lounge-gallery area; a large multi-purpose room, meeting rooms, offices for student government and the major publications, and an information center.

The Union building is open for breakfast at 7:00 a.m. and remains open, normally, until 11:00 p.m.

The Union Program Board is responsible for the program of social activities, lectures, recreational activities, and concerts which are presented in the Union Building and the residence halls.

SCHEDULE OF COURSES FOR THE FIRST TERM

June 9 – July 17

Course No.	Title
BIOLOGY	
101-1	**Principles of Biology (4) Instructor: Johnson 12:30–2:00, K-207**
101-L01	**Laboratory (TWTh) 2:10–5:00, K-221** No credit toward a biology major. The relevance of biology to human existence and human history: man and his part in the natural environment and how changes in his surroundings have affected him.
211-1	**Plant Biology (4) Instructor: Coffey, 12:30–2:00, K-120**
211-L01	**Laboratory (TWTh), 2:10–5:00, K-201** Prerequisite: Open to majors and non-majors. Biology 101 prerequisite for non-majors. The morphology, function, reproduction, phylogeny, and ecology of plants.
323-1	**Parasitology (4) Instructor: Menhinick 12:30–2:00, K-214**
323-L01	**Laboratory (TWTh) 2:10–5:00 K-214** Prerequisite: Biology 221. Morphology, life cycles, ecology, taxonomy, and economic importance of parasites.
303-1	**Field Biology for Secondary School Teachers (4) Instructor: Hechenbleikner 12:30–2:00 K-211**
303-L01	**Laboratory (TWTh) 2:10–5:00 K-220** Prerequisite: Open to students in secondary education and to others with consent of department. No credit toward a biology major. Roles of soils, water, and climate on plant growth and distribution, plant succession, and its effect on animal distribution; identification and life histories of selected plants and animals.
497-1	**Investigations in Biology (1–4) TBA** May be repeated for credit. Prerequisite: Permission of the department. A course designed to allow the senior Biology major to initiate a research project in his field of interest.
BUSINESS ADMINISTRATION	
201-1	**Principles of Accounting (3) Instructor: Turner 8:00–9:30 C-102**
201-2	**Principles of Accounting (3) Instructor: Turner 10:00–11:30 C-102**
201-L01	**Principles of Accounting (M) 2:30–4:30 C-109** A study of accounting principles, with emphasis on managerial uses of accounting data, and analysis of financial statements.
380-1	**Business Law (3) Instructor: Williams 10:00-11:30 C-103** A study of the legal environment within which business operates, topics covered include contracts, sales, negotiable instruments, agency, partnerships, and corporations.
444-1	**Organization Theory (3) Instructor: Byarlay 8:00–9:30 C-103** Prerequisite: Economics 202. An application of traditional and behavioral concepts to business organization and decision making. Primarily a study of the process of decision making in the business organization including the more modern feed back systems of group behavior.
400-1	**Industrial Management (3) Instructor: Williams 8:00–9:30 C-114**

Prerequisites: Economics 202 and Business Administration 202. The principles underlying the solution of problems in organization and operation of industrial enterprises. Emphasis placed on the management functions of planning, organizing, actuating and controlling business activity.

CHEMISTRY

101-1 **Principles of Chemistry (4) Instructor: staff 12:30–2:00 K-107**
101-L01 **Laboratory (TWTh) 2:10–5:00 K-320**
101-L02 **Laboratory (TWTh) 2:10–5:00 K-309** Prerequisite or corequisite: Mathematics 101 or Mathematics 103. Fundamental postulates and laws of chemistry; the relationship of atomic structure to physical and chemical properties of the elements.
203-1 **Organic Chemistry (4) Instructor: staff 12:30–2:00 C-103**
203-L01 **Laboratory (TWTh) 2:10–5:00 K-310**
203-L02 **Laboratory (TWTh) 2:10–5:00 K-310** Prerequisite: Chemistry 102. Basic theories, principles, and techniques of organic chemistry and their applications to reactions of aliphatic and aromatic compounds and natural products.

ECONOMICS

201-1 **Principles of Economics (3) Instructor: Sangha 8:00–9:30 C-205**
201-2 **Principles of Economics (3) Instructor: Byarlay 10:00–11:30 C-205**
201-3 **Principles of Economics (3) Instructor: Trosch 10:00–11:30 C-215** The first semester of a one-year introductory course in Economics. Topics considered include the scope and methodology of economics as a social science, the measurement of national income, the theory of national income determination, money and banking, monetary and fiscal policy.
315-1 **Money and Banking (3) Instructor: Sangha 10:00–11:30 A-109** Prerequisite: Economics 202. The characteristics and functions of money in the modern economy. The operation of our banking system; monetary theory and policy.
480-1 **Government and Business (3) Instructor: Trosch 12:30–2:00 C-205** Prerequisite: Economics 202. A historical development of government regulation of business, utilizing the case study approach to develop an understanding of current philosophies and problems in this area.

EDUCATION

201-1 **Introduction to Education (3) Instructor: Dwyer 10:00–11:30 C-117** An introductory course to acquaint students with the teaching profession. Considered are the role of the teacher, the clientele of the school, and the community. Emphasis placed on the historical and sociological orientation of the school in society.
303-1 **Elementary Education: Organization and Curriculum (3) Instructor: staff 8:00–9:30 D-102** Prerequisites: Education 201, Psychology 202. Major consideration is given to the organization, administration, and curriculum of the elementary school. Emphasis placed on the role of the elementary school teacher in the total educational program.
***495-1** **Adjustment Problems of the Disadvantaged (3) Instructor: Diamant 8:00–9:30 S-325** Prerequisite: Consent of the Department of Psychology. A seminar concerned with such issues as racial attitudes, prejudice, poverty. Contributing lecturers with professional experience with problems of the disadvantaged will participate.
600-A **Explorations in Human Potential: The Person and School in Urban Society (3) Instructor: staff 10:00–11:30 D-104**
600-B **Explorations in Human Potential: The Facilitation of Meaning (3) Instructor: staff 10:00–11:30 C-213**
600-C **Explorations in Human Potential: Children and Youth (3) Instructor: staff 10:00–11:30 C-217** A course designed to explore in depth the identification, development and release of human potential. Emphasis will be given to techniques, relationships and programs which develop potential.
625-1 **Concepts of Teaching and Learning: (3) Instructor: Hackney**

10:00–11:30 D-103 A-Language Arts and Social Studies.

630 Examination and Appraisal of Reading Techniques (3) Instructor: Hackney 2:30–4:00 D-101

660-1 Behavioral Analysis of Administration (3) Instructor: staff 8:00–9:30 D-104

663-1 Developmental Approaches to the Theory and Practice of Guidance (3) Instructor: Dwyer 2:30–4:30 D-104

665** Analyzing and Developing Approaches to the Helping Relationship (3) Instructor: Pleasants 8:00–11:00 D-109

670*** Clinical Experiences in Analyzing Teacher-Learner Behavior 8:00–9:30 A-Early Childhood Education (3–6) Instructor: Rowland B-Intermediate Education (3–6) Instructor: staff D-101 C-Secondary Education (3–6) Instructor: Pleasants and staff D-103

672 Special Problems in Human Learning and Development (3–6) Instructor: Chase and staff. Prerequisite: Permission of department. TBA.

*Open to graduate and undergraduates.
** First three weeks only
***We are offering these courses as clinical experiences. For three hours credit, student is enrolled for three weeks; for six hours credit, student is enrolled for six weeks.

ENGINEERING

EE211-1 Liniar Networks I (3) Instructor: Barnette 8:00–9:30 S-227 Prerequisite: Differential calculus. Introductions to Kirchoff's current and voltage equations using oriented linear graphs techniques. Formulation of cut set and circuit matrices. Terminal equations of network elements. Formulation of the primary and secondary systems of equations by matrix methods. Network theorem and equivalence. Power and energy functions.

EM211-1 Statics (3) Instructor: Evett 12:30–2:00 S-227 Prerequisite: Integral calculus. Physical concepts of vectors and application of vector methods to particle and rigid body equilibrium. Forces in trusses, beams, and cables. Distributed forces, hydrostatics. Properties of surfaces. Shear and bending moment diagrams.

ME311-1 Thermodynamics I (3) Instructor: Kim 8:00–9:30 S-228 Prerequisites: Physics 221 or EM 212. Differential equations. First and second laws of thermodynamics. Work and heat. Entropy and Clausius inequality. Ideal and real gases. Nonreactive mixtures of gases. Availability and irreversibility. Vapor and gas power cycles.

EGR252-1 Basic Engineering Laboratory (1) (MTTh) Instructor: Smith 2:00–5:00 S-326 Prerequisite or corequisite: EE 211. The first of a series of engineering laboratories designed to instruct the student in the use of laboratory equipment and apply the principles of experimentation and measurement.

ENGLISH

101-1 English Composition (3) Instructor: Bush 8:00–9:30 A-206

102-1 English Composition (3) Instructor: Bush 10:00–11:30 A-205 Critical writing, collateral reading, and introduction to literary study.

201-1 English Literature (3) Instructor: Kerwin 10:00–11:30 A-204

201-2 English Literature (3) Instructor: McCall 12:30–2:00 A-204 Intensive study of the masterpieces of British literature in chronological sequence before 1700.

312-1 Shakespeare (3) Instructor: Carver 12:30–2:00 A-209 Twelve of his major plays from the comedies, tragedies, and histories.

325-1 The Romantic Era (3) Instructor: McCall 10:00–11:30 A-211 The development of the Romantic movement with the emphasis on the works of Wordsworth, Coleridge, and other major poets.

332-1 Introduction to Modern English (3) Instructor: Varnas 10:00–11:30 A-206 An introduction to the phonology and grammatical construction of present-day English, with some consideration of word formation, changes in meaning, dialectal differences, and problems of usage.

*461-1 Modern English Grammar (3) Instructor: Varnas 8:00–9:30 A-207 A descriptive analysis of the structure of modern English, with emphasis upon the transformational approach.

623-1 The Augustan Age (3) Instructor: Wallace 10:00–11:30 A-207 The chief literary figures and conventions in the light of intellectual and historical currents.

*Open to graduates and undergraduates.

FINE ARTS – ART

201-1 Art Appreciation (3) Instructor: Anderson 12:30–2:00 C-120 An introduction to art history and appreciation covering basic concepts, aesthetic aims, and social influences which characterize and differentiate one civilization or period from another.

320-1 General Crafts (3) Instructor: Anderson (MTWTh) 8:00–11:30 U Prerequisite: Art 203. An introductory studio course in the various craft media and techniques including ceramics, metal, wood and fiber.

FINE ARTS – MUSIC

051H Organ (1) Instructor: Mathis TBA C-211

051P-2 Voice (1) Instructor: Gaither TBA C-218

051P-5 Voice (1) Instructor: Dailey TBA C-212

207-1 Introduction to Music Literature (3) Instructor: Dailey 12:30–2:00 C-122 The development of resources for the aural exploration of music through emphasis on stylistic characteristics and the evolution of musical forms, and the interrelationship of music with other cultural influences.

307-1 Music for Elementary School Teachers (3) Instructor: Gaither 10:00–11:30 C-220 Prerequisite or corequisite: Education 303. Methods and materials of instruction which the teacher can apply in a music program in the elementary school.

FINE ARTS – SPEECH AND THEATRE

101-1 Fundamentals of Speech (3) Instructor: Nugent 8:00–9:30 C-200

101-2 Fundamentals of Speech (3) Instructor: Nugent 10:00–11:30 C-200 Training in voice and diction to develop effective delivery. The composition of speeches.

FRENCH

101-1 Elementary French (3) Instructor: Saman 12:30–2:00 LA-203

101-L01 Elementary French Laboratory 10:00–11:00 LA-106 Fundamentals of French grammar and phonetics, reading and conversation. Ninety minutes of class and fifty minutes of laboratory work per day. No college credit given if student has received credit for same language to satisfy entrance requirements.

201-1 Intermediate French (3) Instructor: Bush 8:00–9:30 LA-203

201-L01 Intermediate French Laboratory 10:00–11:00 LA-106 Prerequisite: French 104 or permission of department. Review grammar, with composition and conversation based upon readings on French culture and civilization. Ninety minutes of class and fifty minutes of laboratory work per day.

403-1 French Literature of the Nineteenth Century (3) (MWF) Instructor: Slechta 3:00–4:30 LA-103 Prerequisite: French 303 and 304, or permission of the department. Collateral readings.

GEOGRAPHY

101-1 Earth Science-Geography (4) Instructor: Wagoner 12:30–2:00 S-345

101-L01 Earth Science-Geography Laboratory (T,Th) 2:00–5:00 S-347 A study of basic geographical principles and processes in earth science: the earth – its position and motions; the grid system; weather; climate; the waters; soils; and vegetation.

312-1 Urban Geography (3) Instructor: Stuart 10:00–11:30 S-217 A study of the distribution, internal structure and functions of various types of urban developments. Field trips to be arranged.

GERMAN

101-1 Elementary German (3) Instructor: Gabriel 8:00–9:30 LA-205

101-L01 Elementary German Laboratory 10:00–11:00 LA-106 Fundamentals of German grammar and phonetics, reading, and con-

versation. Ninety minutes of class and fifty minutes of laboratory per day. No college credit given if student has received credit for same language to satisfy entrance requirements.

201-1 **Intermediate German (3) Instructor: Gabriel 12:30–2:00 LA-205**

201-L01 **Intermediate German Laboratory 10:00–11:00 LA-106** Prerequisite: German 102 or permission of department. Review grammar, composition, and conversation based on readings on the culture and civilization of German-speaking countries. Ninety minutes of class and fifty minutes of laboratory work per day.

HEALTH EDUCATION

101-1 **Health Education (1) Instructor: Fleming/Murphy (M,F) 10:00–11:15 S-327** A general introductory course. Basic ideas of human anatomy, physiology, and chemistry are applied toward an understanding of human health problems.

HISTORY

101-1 **Modern Western Civilization to 1815 (3) Instructor: Baker 12:30–2:00 C-105** This course commences with broad survey of ancient and medieval contributions to modern Western civilization and then treats intensively the development of Western civilization from the Renaissance to 1815.

201-1 **American History to 1865 (3) Instructor: Perzel 10:00 – 11:30 C-105**

201-N **American History to 1865 (3) Instructor: Robbins 6:00–7:30 C-105** Survey of American history from the earliest times to 1865.

202-1 **American History, 1865 to the Present (3) Instructor: Hall 8:00–9:30 C-105** Survey of American History from 1865 to the present.

312-1 **Russian History, 1825 to the Present (3) Instructor: Morrill 10:00–11:30 C-115** Survey of Russian history from 1825 to the present.

*336-N **Origins of the American Constitution (3) Instructor: Robbins 7:40–9:10 C-115** Prerequisite: History 201 or 202. The historical and philosophical background which led to the adoption of the American Constitution. Emphasis is placed on the Constitution's heritage from the Enlightenment, and the English and Colonial background. The course traces the writing and development of the Constitution through the Marshall court.

343-1 **Colonial America (3) Instructor: Perzel 12:30–2:00 C-115** Prerequisite: History 201. Colonial history from the discoveries to 1763.

362-1 **Modern Britain, 1485–1789 (3) Instructor: Ploger 8:00–9:30 C-115** Continuation of History 361 with some treatment of the British Empire.

650-1 **Topics in History – The Reformation (3) Instructor: Baker 2:30–4:00 C-115** Examination of Reformation through contemporary materials; reports and discussions.

694-1 **Readings in History (3) Instructor: Hall TBA** Coverage of historical periods or topics through an individually designed reading program; scheduled conferences with a staff member.

***Open to graduates and undergraduates.**

MATHEMATICS

101-1 **Basic Concepts of Mathematics (3) Instructor: Porterfield 8:00–9:30 D-105**

101-2 **Basic Concepts of Mathematics (3) Instructor: Linder 10:00 – 11:30 D-105**

101-N **Basic Concepts of Mathematics (3) Instructor: staff 6:00–7:30 D-105** Associate, commutative, and distributive properties of the real number system, concepts of sets, relations and functions; graphing and solution of equations and inequalities; elements of mathematical logic; an introduction to computers. (Credit not given to students having credit for Mathematics 103)

103-1 **Concepts of Mathematics (3) Instructor: staff 10:00–11:30 D-108** The real number system as a complete ordered field; concepts

of sets, relations and functions; graphing and solution of equations and inequalities; elements of mathematical logic, an introduction to mathematical structures. (Credit not given to students having credit for Mathematics 101)

143-1 **Differential Calculus I (3) Instructor: Linder 8:00–9:30 D-108**

143-N **Differential Calculus I (3) Instructor: staff 6:00–7:30 D-108** Prerequisite: Mathematics 104 with a grade of C or better. Limits in R^n; continuity of $R^n \longrightarrow R^m$ functions; differential calculus of $R \longrightarrow R^n$ functions; extreme values; concavity; curve sketching; velocity and acceleration; related rates.

221-1 **Introduction to Probability and Statistics I (3) Instructor: Wright 10:00–11:30 D-106**

221-2 **Introduction to Probability and Statistics I (3) Instructor: Porterfield 12:30–2:00 D-106**

221-N **Introduction to Probability and Statistics I (3) Instructor: staff 7:40–9:10 D-106** Prerequisite: Mathematics 101 or consent of department. The first course of a two semester sequence of a modern introduction to the mathematical theory of probability and statistics with applications.

222-1 **Introduction to Probability and Statistics II (3) Instructor: staff 12:30–2:00 D-105** Prerequisite: Mathematics 102 and 221. A continuation of Mathematics 221.

243-1 **Differential Calculus II (3) Instructor: Basavappa 10:00–11:30 D-102** Prerequisite: Mathematics 143 with grade of C or better. The geometry of vector functions; differential calculus of $R^n \longrightarrow R^m$ functions; partial derivatives; tangent lines and planes; gradient and directional derivative.

271-1 **Differential Equations (3) Instructor: staff 8:00–9:30 C-106** Prerequisite: Mathematics 144 with grade of C or better. An introduction to the study of differential equations; first order equations; general theory of ordinary linear differential equations. Laplace transform.

362-1 **Number Theory (3) Instructor: Basavappa 8:00–9:30 D-106** Prerequisite: Consent of department. Introductory topics from the theory of rational and algebraic integers.

403-1 **Arithmetic in the School (3) Instructor: Wright 12:30–2:00 D-102** Prerequisite: Mathematics 101 or equivalent. A study of the number systems with emphasis placed upon the basic concepts and meanings, properties of addition, multiplication, inverses, systems of numeration, and the number line appropriate for each grade. (Does not count toward a major in mathematics.)

CSC-100-1 **Algorithmic Languages I (3) Instructor: Goodrum 2:30–4:30 S-229** Prerequisite: Mathematics 101 or 103. An introduction to digital computing techniques through the study of Fortran IV. Various numerical and nonnumerical algorithms will be studied, flow-charted, programmed and documented. Concepts such as computer hardware, computer application areas, etc., will be introduced when appropriate.

NURSING

102-1 **Ecology of Man I (3) Instructor: Brocker 1:00–2:30 D-103** The focus of this course is directed toward understanding the relationship of the ill person to his family and community. Major health problems and facilities provided by society for meeting health needs will be included in the content.

201-1 **Fundamentals of Nursing I (4) 7:30–2:00** ** Prerequisite or corequisite: Nursing 102. Study of the basic concepts and principles essential for the nursing care of adults and children. Emphasis is placed on the correlation of principles of nursing with concepts of behavioral and natural sciences.

**Memorial Hospital

PHILOSOPHY

201-1 **Introduction to Philosophy (3) Instructor: staff 10:00–11:30 C-216** An introduction to some of the basic concepts and problems of philosophy.

301-1 **Ethics (3) Instructor: Schumaker 8:00–9:30 C-216** A study of the development of ethical thought with special references to present day ethical problems.

PHYSICAL EDUCATION

409-1 **Physical Education Laboratory (3) Instructor: Fleming/Murphy 2:00–3:30 S-327** Prerequisite: Education 303. Physical education teaching for the elementary grades.

PHYSICS

101-1 **Introductory Physics I (4) Instructor: Mayes 12:30–2:00 S-306**

101-L01 **Introductory Physics Laboratory (TWTh) Instructor: Oberhofer 2:10–5:00 K-113** Prerequisite or corequisite: Mathematics 101 103. Introduction to the fundamental principles of natural phenomena. Topics will be selected from traditional classical subject (e. g., Newtonian mechanics, electromagnetism) and more recent developments (e. g., relativity, quantum mechanics, elementary particles) in order to illustrate the logical structure of modern science.

221-N **Particle Dynamics (3) Instructor: Oberhofer 6:00–7:30 S-306** Corequisite: Mathematics 142. Kinematics and dynamics of particles. The gravitational interaction with an introduction to the associated vector and scalar fields.

POLITICAL SCIENCE

203-1 **Introduction to International Politics (3) Instructor: Jamgotch 12:30–2:00 D-101** Analysis of politics among nations: material and psychological sources of national power, the role of law, force, and diplomacy in world politics, problems of peace and disarmament, and international organizations.

*450 **The Robert A. Taft Institute of Government Seminar (3) Director: Lyons (TTh) 9:30–2:30 Union** Open under special arrangement. See "Short Courses and Workshops".

*Open to graduates and undergraduates.

PSYCHOLOGY

201-1 **General Psychology (4) Instructor: J. Williams 12:30–2:00 C-109**

201-L01 **General Psychology Laboratory (M,W) Instructor: Talbutt 2:10–5:00 S-103**

201-L02 **General Psychology Laboratory (T,Th) Instructor: Talbutt 2:10–5:00 S-103** Survey of general psychology as a behavioral science.

202-1 **Educational Psychology (3) Instructor: W. Williams 8:00–9:30 S-327** Prerequisite: Psychology 201. The psychology of learning; problems related to the instructional processes.

203-1 **Psychology of Adjustment (3) Instructor: J. Williams 10:00–11:30 S-325** Prerequisite: Psychology 201. The study of the process of adjustment. Primary consideration given to motivation, frustration and conflict, adjustment mechanisms, and psychotherapy.

495-1 **Adjustment Problems of the Disadvantaged (3) Instructor: Diamant 8:00–9:30 S-325** Prerequisite: By consent of department. A seminar concerned with such issues as racial attitudes, prejudice, poverty. Assigned reading and discussion deal with the application of psychological principles to these problems. Contributing lecturers with professional experience with problems of the disadvantaged will participate.

RELIGION

201-1 **Survey of Old Testament (3) Instructor: staff 10:00–11:30 C-109** An introduction to the literature of the Old Testament in light of its literary and historical background.

SOCIOLOGY

201-1 **General Sociology (3) Instructor: Jordan 8:00–9:30 C-111**

201-2 **General Sociology (3) Instructor: Jordan 10:00–11:30 A-208** Survey of the field of sociology to cover such topics as: social norms and values, status and role, social stratification, socialization, crowds and publics, formal and informal groups, urban communities, population, social institutions.

302-1 **Social Problems (3) Instructor: Watson 10:00–11:30 A-107** Prerequisite: Sociology 201. Sociological analysis of crime and delinquency, alcoholism, drug addiction, mental disorders, race relations, and problems of population.

310-1 American Minority Groups (3) Instructor: Watson 8:00–9:30 A-109 Prerequisite: Sociology 201. Sociological analysis of the relations between minority and dominant groups in America, with special attention paid to such American minorities as immigrant groups, Mexicans, Puerto Ricans, Orientals, Catholics, Jews, Indians, and Negroes.

SPANISH

101-1 Elementary Spanish (3) Instructor: Sabates 8:00–9:30 LA-208

101-L01 Elementary Spanish Laboratory 10:00–11:00 LA-106 Introduction to Spanish, with emphasis on auditory comprehension, oral production and control of structure. Ninety minutes of class and fifty minutes of laboratory per day. No college credit given if student has received credit for same language to satisfy entrance requirements.

201-1 Intermediate Spanish (3) Instructor: Sabates 12:30–2:00 LA-208

201-L01 Intermediate Spanish Laboratory 10:00–11:30 LA-106 Prerequisite: Spanish 102 or permission of department. Reinforcement and expansion of skill mastery developed in elementary courses on basis of selected readings and analysis of structure. Ninety minutes of class and fifty minutes of laboratory per day.

SCHEDULE OF COURSES FOR SECOND TERM

July 21 – August 28

BIOLOGY

311-1 Microbiology (4) Instructor: Darner 12:30–2:00 K-207

311-L01 Microbiology Laboratory (TWTh) 2:10–5:00 K-215 Prerequisite: 2 semesters of chemistry and one semester of biology. Morphology, physiology, and methods of culture and control of microscopic plants and animals.

205-1 Human Anatomy and Physiology (4) Instructor: Hogan 12:30–2:00 K-120

205-L01 Human Anatomy and Physiology Laboratory 2:20–5:00 K-220 Prerequisite: one semester of biology. No credit toward a biology major. Basic fundamentals of the anatomy and physiology of the human body as an integrated unit.

335-1 Human Genetics (3) Instructor: Hildreth 10:00–11:30 K-207 Prerequisite: one semester of biology. The inheritance of physical and mental characteristics in man. Effects of mutation, selection, migration, and environment are considered.

497-1 Investigations in Biology (1–4) TBA May be repeated for credit. Prerequisite: permission of department. A course designed to allow the senior biology major to initiate a research project in his field of interest.

BUSINESS ADMINISTRATION

202-1 Principles of Accounting (3) Instructor: Turner 8:00–9:30 C-102

202-L01 Principles of Accounting Laboratory (M) 2:30–4:30 C-109 Prerequisite: Business Administration 201. A study of basic accounting theory; corporate financing, and reporting; financial planning; and an introduction to cost accounting.

311-1 Marketing (3) Instructor: Palmer 10:00–11:30 C-102 Prerequisite: Economics 202. Analysis of the activities which direct the flow of goods and services from producers to consumers in modern economic systems; focuses on development of the student's ability to perceive and evaluate marketing problems and policies.

371-1 Cost Accounting (3) Instructor: Turner 10:00–11:30 C-103

371-L01 Cost Accounting Laboratory (T) 2:30–4:30 C-103 Prerequisite: Business Administration 202. A study of cost determination and control. Includes procedures for job order, process and standard systems, and management uses of cost data.

380-1 Business Law (3) Instructor: Trosch 10:00–11:30 C-115 A study of the legal environment within which business operates, topics include contracts, sales, negotiable instruments, agency, partnerships, and corporations.

CHEMISTRY

102-1 Principles of Chemistry (4) Instructor: staff 12:30–2:00 K-107

102-L01 Principles of Chemistry Laboratory (TWTh) 2:10–5:00 K-320

102-L02 Principles of Chemistry Laboratory (TWTh) 2:10–5:00 K-309
Prerequisite: Chemistry 101. Continuation of Chemistry 101 including qualitative analysis.

204-1 Organic Chemistry (4) 12:30–2:00 C-103

204-L01 Organic Chemistry Laboratory (TWTh) 2:10–5:00 K-310

204-L02 Organic Chemistry Laboratory (TWTh) 2:10–5:00 K-310

ECONOMICS

202-1 Principles of Economics (3) Instructor: Sangha 8:00–9:30 C-205

202-2 Principles of Economics (3) Instructor: Sangha 10:00–11:30 C-205

202-3 Principles of Economics (3) Instructor: Rogers 10:00–11:30 C-215 Prerequisite: Economics 201. The second semester of a one-year introductory course in economics. Topics include the operation of the pricing mechanism of a market economy, the industrial organization of our contemporary capitalistic economy, problems of economics concentration and of agriculture, the theory of income distribution, international economics relationships, and comparative economic systems.

305-1 Industrial Relations (3) Instructor: Rogers 12:30–2:00 A-109 Prerequisite: Economics 202. Systematic analysis of the sociological, economic, and political forces affecting and affected by the work environment. Special emphasis on market structure, the small group, the legal environment and union structure.

EDUCATION

***421** Psychology of Exceptional Children (3) Instructor: Williams 12:30–2:00 S-325 (Psychology 421) Prerequisites: Psychology 201 and 301. Assessing the exceptional child. Emphasis on current research in several diagnostic categories.

609 Interest, Aptitude, Intelligence (3) Instructor: staff 8:00–9:30 S-103 A survey of psychological and educational measurements in current use. Emphasis will be placed on structure, administration, and application of group and individual tests.

610 Design and Analysis of Research in Human Learning and Development (3) Instructor: staff 12:30–2:00 D-104

*Open to graduates and undergraduates.

ENGINEERING

EE212 Linear Networks II (3) Instructor: Wayne 8:00–9:30 S-227 Prerequisite: EE 211, Integral Calculus. Prerequisite or corequisite: Differential equations. Formulation of network equations and the investigation of transient and steady state solutions of these equations. The vector transform as an introduction to sinusoidal steady state. Sinusoidal steady state and frequency response of networks.

EM212 Dynamics (3) Instructor: Bayer 12:30–2:00 S-227 Prerequisite: EM 211. Kinematics and dynamics of particles and rigid bodies. Relative motion. Applications of Newton's second law to physical system. Methods of impulse, momentum, and energy. Elements vibration analysis.

ME312 Thermodynamics II (3) Instructor: Kim 8:00–9:30 S-228 Prerequisites: ME 311. General thermodynamic relations; equations of state and generalized charts. Combustion, dissociation; and chemical equilibrium. Introduction to statistical thermodynamics.

ENGLISH

102-1 English Composition (3) Instructor: Harris 8:00–9:30 A-204 Critical writing, collateral reading and introduction to literary study.

202-1 English Literature (3) Instructor: Gatlin 12:30–2:00 A-204 British literary masterpieces since 1700.

203-1 Masterpieces of Modern Fiction (3) Instructor: Gatlin 10:00–11:30 A-204 Readings in selected novels and short stories

written since 1850. Does not count toward an English major.

204-1 **Major American Writers (3) Instructor: Shapiro 12:30–2:00 A-209** Extensive readings in six to eight authors. Recommended for non-English majors who are working for teacher's certificates. Does not count toward an English major.

306-1 **Introductory Creative Writing (3) Instructor: Grey 12:30–2:00 A-205** Prerequisite: Permission of instructor. Open to students of at least sophomore standing who have satisfied the requirements of English 101 and 102. Writing of fiction, poetry, or drama.

*311-1 **History of the English Language (3) Instructor: Varnas 8:00–9:30 A-209**

342-1 **American Literature Since 1890 (3) Instructor: Shapiro 8:00–9:30 A-206** The chief writers and literary movements from Howells to the present.

*413-1 **English Prose and Poetry, 16th Century (3) Instructor: Moose 10:00–11:30 A-206** The major works, excluding drama, More through Spenser, with attention to the development of the lyric.

*Open to graduates and undergraduates.

FINE ARTS – ART

201-1 **Art Appreciation (3) Instructor: Nonn 10:00–11:30 C-120** An introduction to art history and appreciation covering basic concepts, aesthetic aims, and social influences which characterize and differentiate one civilization or period from another.

302-1 **Art for Elementary Teachers (3) Instructor: Nonn (MTWTh) 2:10–5:00 A-103** Prerequisite or corequisite: Education 303. A study of materials and techniques which the teacher may use in art activities in the school.

MUSIC

051L **Piano (1) Instructor: Booth TBA**

208-1 **Introduction to Music Literature (3) Instructor: Booth 10:00–11:30 C-220** Continuation of Music 207. Prerequisite: Music 207.

SPEECH AND THEATRE

101-1 **Fundamentals of Speech (3) Instructor: Ferguson (MTWTh) 8:00–9:30 C-200**

101-2 **Fundamentals of Speech (3) Instructor: Ferguson (MTWTh)** Training in voice and diction to develop effective delivery. The composition and presentation of speeches.

FRENCH

102-1 **Elementary French (3) Instructor: Richard 12:30–2:00 LA-203**

102-L01 **Elementary French Laboratory 10:00–11:30 LA-106** Prerequisite: French 101, or permission of department. Continuation of French 101. Ninety minutes of class and fifty minutes of laboratory per day. No college credit given if student has received credit for same language to satisfy entrance requirements.

202-1 **Intermediate French (3) Instructor: Richard 8:00–9:30 LA-203**

202-L01 **Intermediate French Laboratory 10:00–11:30 LA-106** Prerequisite: French 201, or permission of department. Review grammar, composition, and conversation, based upon readings in French prose. Ninety minutes of class and fifty minutes of laboratory per day.

GEOGRAPHY

102-1 **Regional World Geography (3) Instructor: Orr 8:00–9:30 S-217** A world regional study with emphasis on the distinctly human responses of man to various geographical situations throughout the world. The nature and development of cultural regions will be studied.

303-1 **Geography of Anglo America (3) Instructor: Stuart 10:00–11:30 S-217** The geographic structure of the U. S. and Canada with emphasis on both the physical environment and the patterns of human activities.

GEOLOGY

102-1 **Earth Science – Geology (4) Instructor: Alker 12:30–2:00 C-120**

102-L01 **Earth Science – Geology Laboratory (MW) 2:00–5:00 S-248** A study of the basic geological principles and processes in earth science; the earth as a planet; treatment of physical processes shaping the earth; earth materials and landforms.

GERMAN

102-1 **Elementary German (3) Instructor: Merrill 8:00–9:30 LA-205**

102-L01 **Elementary German Laboratory 10:00–11:00 LA-106** Prerequisite: German 101 or permission of department. Continuation of German 101. Ninety minutes of class and fifty minutes of laboratory per day. No college credit given if student has received credit for same language to satisfy entrance requirements.

202-1 **Intermediate German (3) Instructor: Merrill 12:30–2:00 LA-205**

202-L01 **Intermediate German Laboratory 10:00–11:00 LA-106** Prerequisite: German 201 or permission of department. Review grammar, composition, and conversation, based upon readings in German prose. Ninety minutes of class and fifty minutes of laboratory work per day.

HEALTH EDUCATION

101-1 **Health Education (1) Instructor: Fleming/Murphy 12:00–1:15 Gym 222** A general introductory course. Basic ideas of human anatomy, physiology, and chemistry are applied toward an understanding of human health problems.

409-1 **Health Education Laboratory (3) Instructor: Bostian 8:00–9:30 Gym 227** Prerequisite: Education 303. Health instruction, principles of health teaching for the elementary grades.

HISTORY

102-1 **Modern Western Civilization from 1815 to Present (3) Instructor: Warren 12:30–2:00 C-105**

102-N **Modern Western Civilization from 1815 to Present (3) Instructor: Warren 6:00–7:30 C-105** Prerequisite: History 101. Continuation of History 101 with greater emphasis on developments outside the Atlantic community of Western civilization.

202-1 **American History, 1865 to Present (3) Instructor: Robbins 12:30–2:00 C-115** Survey of American History from 1865 to the present.

***318-N** **Twentieth Century Europe – 1914 to Present (3) Instructor: Morrill 7:40–9:10 C-105** A review of the causes and results of World War I followed by an intensive study of the problems of peace, rise of new governments, collapse of collective security, World War II, and the post-war period.

361-1 **Britain to 1485 (3) Instructor: Abernathy 8:00–9:30 C-105** Survey of British history with emphasis on institutional, cultural, economic, and imperial developments.

461-1 **Tudor England, 1485–1603 (3) Instructor: Abernathy 10:00–11:30 C-105** Treatment in depth of the English Reformation, the English Renaissance, and the creation of English naval and economic power.

693-1 **Historiography and Methodology (3) Instructor: Rieke 12:30–2:00 C-114** The history and philosophy of historical literature; the library as historian's laboratory; research methods.

694-1 **Readings in History (3) Instructor: Morrill TBA** Coverage of historical periods or topics through an individually designed reading program; scheduled conferences with a staff member.

***Open to graduates and undergraduates.**

MATHEMATICS

102-1 **Elementary Analysis (3) Instructor: Porterfield 8:00–9:30 D-105**

102-2 **Elementary Analysis (3) Instructor: staff 10:00–11:30 D-105**

102-N **Elementary Analysis (3) Instructor: staff 6:00–7:30 D-105** Prerequisite: Mathematics 101 or 103. A brief treatment of basic concepts of differential and integral calculus with applications to business and to the social and life sciences.

104-1 **Linear Geometry (3) Instructor: Basavappa 10:00–11:30 D-108** Prerequisite or corequisite: Mathematics 103. Algebra and geometry of vectors, a vector approach to trigonometry, vector descriptions of lines and planes; matrix representation of linear transformations; range and kernel of a linear transformation.

144-1 **Integral Calculus I (3) Instructor: Davis 8:00–9:30 D-108**

144-N **Integral Calculus I (3) Instructor: staff 6:00–7:30 D-108** Prerequisite: Mathematics 143 with a grade of C or better. The Riemann integral of $R \longrightarrow R$ functions; special functions; the integral of $R \longrightarrow R^n$ functions; arc length; volumes and surfaces of revolution. Total force.

CSC 201-1 **Computers and Programming (3) Instructor: staff 12:30–2:00 D-105** Prerequisite: CSC 100. Computer structure; symbolic coding, and assembly systems; macros; program segmentation and linkage; and an introduction to operating systems.

222-1 **Introduction to Probability and Statistics II (3) Instructor: staff 8:00–9:30 D-106**

222-N **Introduction to Probability and Statistics II (3) Instructor: staff 7:40–9:10 D-106** Prerequisite: Mathematics 102 and 221. A continuation of Mathematics 221.

244-1 **Integral Calculus II (3) Instructor: Porterfield 10:00–11:30 D-106** Prerequisite: Mathematics 144 with grade of C or better. Multiple integration; iterated integrals, series, improper integrals, Stoke's theorem.

*450-1 **Analytic Functions (3) Instructor: Linder 8:00–9:30 D-104** Prerequisite: Mathematics 142 or consent of department. A study of analytic functions as defined by power series and linear fractional transformations.

*Open to graduates and undergraduates.

NURSING

202-1 **Fundamentals of Nursing II (4) 7:30–2:00 **** A continuation of Nursing 201.

**Memorial Hospital

PHILOSOPHY

201-1 **Introduction to Philosophy (3) Instructor: staff 8:00–9:30 C-216** An introduction to some of the basic concepts and problems of philosophy

PHYSICAL EDUCATION

101-1 **Foundations of Physical Activity (1) Instructor: Bostian 3:00–4:15 Gym 227** The application of various physical training programs designed to improve and maintain physical fitness. One-sixth of the meeting time will be devoted to lectures on physiological and psychological aspects of physical training.

PHYSICS

102-1 **Introductory Physics II (4) Instructor: Mayes 12:30–2:00 S-306**

102-L01 **Introductory Physics Laboratory (TWTh) 2:10–5:00 K-113** Prerequisite: Physics 101. A continuation of Physics 101.

231-N **Electromagnetic Theory I (3) Instructor: Vermillion 6:00–7:30 S-306** Prerequisite: Physics 221. Corequisite: Mathematics 241. The first course of a three-semester sequence treating free-space and matter electro-dynamics, potential theory, electromagnetic energy relations, Maxwell's equations, electromagnetic waves, and other selected topics in electromagnetic theory.

POLITICAL SCIENCE

201-1 **Introduction to American Politics (3) Instructor: staff 10:00–11:30 D-109** Role of the President, Congress, Supreme Court and national administrative agencies in the American political system. Relationship between the American people and their political institutions with emphasis upon political culture, the electoral process, interest groups, political communication, and the international commitments of the United States.

PSYCHOLOGY

201-1 **General Psychology (4) Instructor: Sohn 12:30–2:00 S-102**
201-L01 **General Psychology Laboratory (M,W) 2:10–5:00 S-103**
201-L02 **General Psychology Laboratory (T,Th) 2:10–5:00 S-103** Survey of general psychology as a behavioral science.

202-1 **Educational Psychology (3) Instructor: W. Williams 10:00–11:30 S-325** Prerequisite: Psychology 201. The psychology of learning; problems related to the instructional processes.

421-1 **Psychology of Exceptional Children (3) Instructor: W. Williams 12:30–2:00 S-325** (Education 421) Prerequisites: Psychology 201 and 301. Assessing the exceptional child. Emphasis on current research in several diagnostic categories.

450-1 **Interests, Aptitudes, Intelligence (3) Instructor: staff 8:00–9:30** (Education 609) A survey of psychological and educational measurements in current use. Emphasis will be placed on structure, administration, and application of group and individual tests.

RELIGION

303-1 **Hebrew Prophets (3) Instructor: Gerber 10:00–11:30 C-114** The development of the prophetic movement with emphasis on the contributions of the prophets to their own day and their significance for today.

SOCIOLOGY

203-1 **General Antropology (3) Instructor: Jordan 10:00–11:30 A-107** Survey of the field of anthropology: physical anthropology, prehistoric archeology, ethnology, culture theory with special emphasis upon cultural anthropology.

201-1 **General Sociology (3) Instructor: Jordan 8:00–9:30 A-109** Survey of the field of sociology to cover such topics as: social norms and values, status and roles, social stratification, socialization, crowds and publics, formal and informal groups, urban communities, population, social institutions.

302-1 **Social Problems (3) Instructor: staff 10:00–11:30 A-208** Prerequisite: Sociology 201. Sociological analysis of crime and delinquency, alcoholism, drug addiction, mental disorders, race relations, and problems of population.

SPANISH

102-1 **Elementary Spanish (3) Instructor: Turner 8:00–9:30 LA-208**
102-L01 **Elementary Spanish Laboratory 10:00–11:30 LA-106** Continuation of Spanish 101, with greater attention to reading and writing. Ninety minutes of class and fifty minutes laboratory per day. No college credit given if student has received credit for same language to satisfy entrance requirements.

202-1 **Intermediate Spanish (3) Instructor: Gleaves 12:30–2:00 LA-208**
202-L01 **Intermediate Spanish Laboratory 10:00–11:30 LA-106** Prerequisite: Spanish 201 or permission of department. Continuation of Spanish 201. Extensive practice in oral and written control of the language on basis of readings from Spanish or Spanish-American literature. Ninety minutes of class and fifty minutes of laboratory per day.

492-1 **Selected Readings in Spanish (3) Instructor: Gleaves 3:00–4:30 LA-103** Prerequisite: two 300 level courses or permission of department. Consideration in depth of a predetermined author or literary movement. Course conducted in Spanish

SHORT COURSES

June 9 – June 30

Art 490-1 **Studio Problems (3) Instructor: Gatewood 9:00–11:30 A-114 1:00–3:00 A-114** Prerequisite: Consent of instructor upon presentation of portfolio. Projects course designed to focus on individual student studio problems.

July 21 – August 7

Education 600 **Explorations in Human Potential: A–The Person and School in**

Urban Society (3) 8:00–11:30 D-101
Explorations in Human Potential: B–The Facilitation of Meaning (3) 8:00–11:30 D-103
Explorations in Human Potential: C–Children and Youth (3) 8:00–11:30 C-106 A course designed to explore in depth the identification, development and release of human potential Emphasis will be given to techniques, relationships, and programs which develop potential.

Education 625 **Concepts of Teaching and Learning (3) Instructor: Pollak 8:00–11:30 S-306 A–Science**

EIGHT WEEKS COURSES

MAT 600-G **Foundations of Mathematics (3) Instructor: Schell 10:00–11:30 D-101** Prerequisite: Consent of the department. Sets, logic, and axiomatics with examples drawn from algebra and geometry.

MAT 603-G **Computer Techniques and Numerical Methods (3) Instructor: Goodrum 12:30–2:00 D-108** Prerequisite: Consent of Department. A study of the digital computer systems, the programming of a digital computer and the use of the computer in the solution of problems by numerical methods.

ENG 612-1 **Shakespeare's Tragedies (3) Instructor: Moose (MWF) 12:30–2:00 A-206** Source materials, textual problems, and stage conventions of selected tragedies, chosen primarily from the period of great tragedies, illustrating Shakespeare's dramaturgy.

INSTITUTES AND WORKSHOPS

NSF Cooperative College-School Science Program in Earth Science

June 8 – July 17

The program will consist of a six-week summer phase and an academic year follow-up phase. Upon successful completion of the program, eleven (11) semester hours of credit will be granted. (Eight (8) semester hours for the summer phase and three (3) semester hours for the academic year phase.) The credit will be applicable toward the renewal of Class A certificate or toward the upgrading of a Class B certificate. Credit for the summer phase will be given under the following two courses during the first summer session:

(1)Geography 650–Workshop in Geography. a. Earth Science I (4) A series of lectures on subject matter of the atmosphere and hydrosphere with accompanying laboratory sessions. Time: 9:00–12:00 and 1:00–4:00 MTWTF, June 8–June 26. S-201

(2)Geology 651–Workshop in Geology a. Earth Science II (4) A series of lectures on subject matter of the lithosphere and space science with accompanying laboratory sessions. Time: 9:00–12:00 and 1:00–4:00 MTWTF, June 29–July 17. S-201

For information write: Dr. James W. Clay
Cooperative College-School Science Program Director
Assistant Professor of Geography
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

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Institute on Constitutional Democracy and Totalitarianism

July 13 – August 7

C-111

For information regarding the institute, requests should be directed to:

Dr. F. M. Rich, Jr.
Chairman, Political Science Department
Appalachian State Teachers College
Boone, North Carolina

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Internship in Community Education and Service (3) SBS 397 Prerequisites: Junior standing, acceptance into the program, and approval of student's major department. Corequisite: SBS 398 (The student's major department has the option of recognizing SBS courses as fulfilling departmental requirements and granting

permission to repeat for credit.)

A project-oriented, service-learning internship with cooperating community organizations.

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Seminar in Community Education and Service (3) A-101 SBS 398 Corequisite: SBS 397 or participation in a service-learning situation approved by the division. (The student's major department has the option of recognizing SBS courses as fulfilling departmental requirements and granting permission to repeat for credit.)

A forum for the analysis of needs in the urban community and the responses being generated to meet them. Interprets the relationship between internship experiences in terms of the service-learning concept.

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The Robert A. Taft Institute of Government Seminar-Union-The Robert A. Taft Institute of Government and the Institute for Urban Studies and Community Service at the University of North Carolina at Charlotte are co-sponsoring a seminar for thirty public school teachers, secondary and elementary, who have responsibility for conducting social studies, civics or government classes. The teachers must have a bachelor's degree and demonstrate an interest in broadening their knowledge and understanding of the political process within the urban places. Social studies teachers from the state of North Carolina are eligible to attend. Participants will have the opportunity to meet and discuss urban political problems with elected officials on the national, state and local levels, political party officers, members of governmental bureaucracies, relevant interest group spokesmen, representatives of the news media and university professors. Teachers selected to participate in this seminar will have tuition waived.

Requests for additional information should be directed to:

Dr. Schley R. Lyons
Associate Professor of Political Science
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

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Workshop on Drug Abuse for Secondary School Administrators
July 15 — 17

For information, contact Dr. Stephen B. Bondy
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

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***Newspaper in the Classroom (3)**
July 22 — August 7

For information, contact Dr. Charles A. Reavis
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

***Graduate and undergraduate credit.**

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Applications for admission to the summer program and further information about registration and admissions are available from:

Mr. L. Robert Grogan
Director of Admissions and Registration
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

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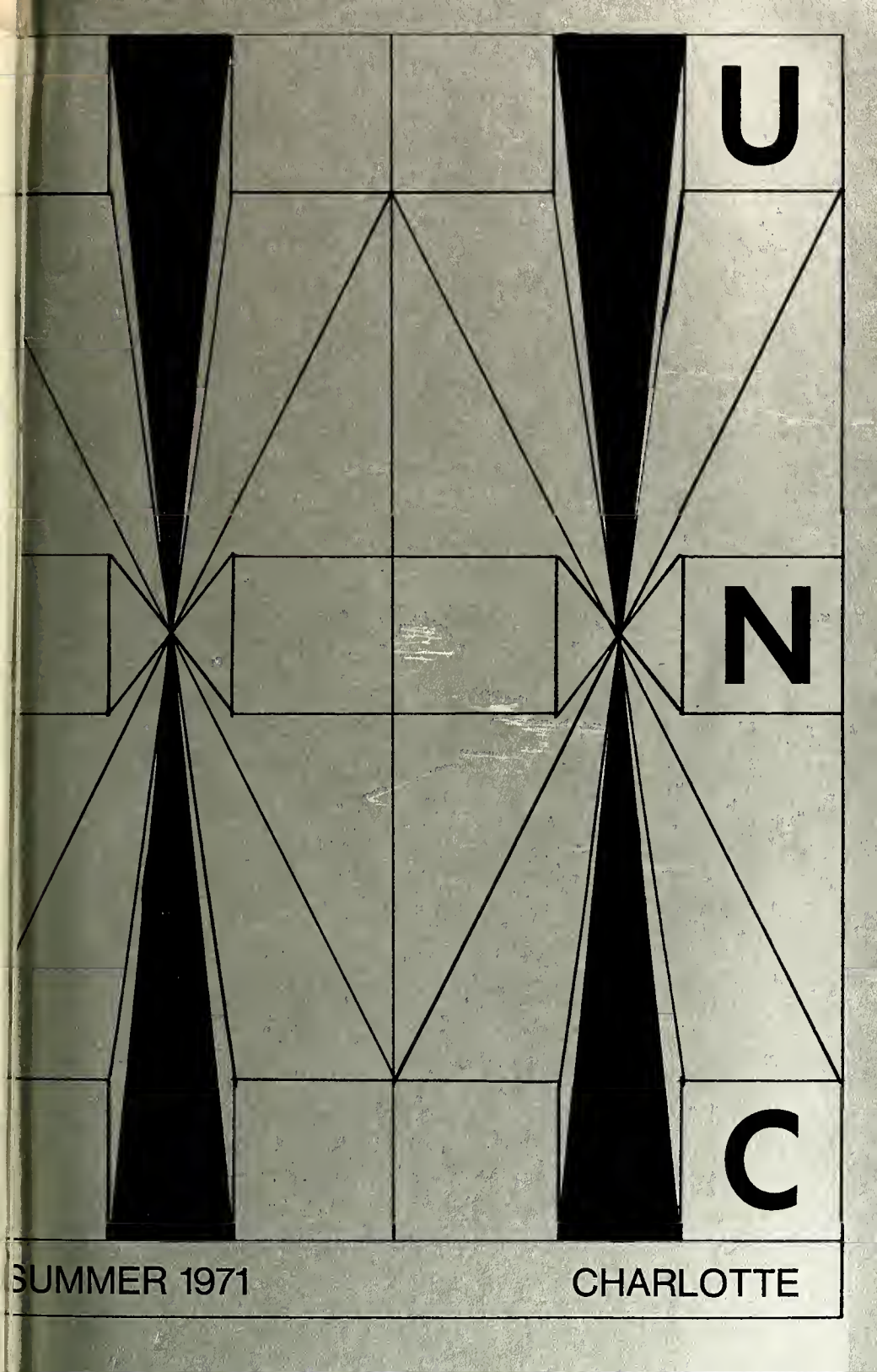
For general information regarding course offerings write to:

Dr. Seth H. Ellis
Director of Summer School
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

COVER PHOTO:
Athletic and Physical Education Center.
Future Home of 1969 and 1970 DIAC Champion 49ers.



SUMMER 1971

CHARLOTTE

The University of North Carolina at Charlotte seeks participants for all its programs from people of all races, creeds, and national origins.

CALENDAR—Summer Session 1971

Application Dates

Applications are expected to be submitted and completed according to the following schedule:

	Term of Entry	
	First Summer Session	*Second Summer Session*
Application Filed By	May 1	June 15
Application Completed By	May 15	July 1
Graduate Applications		
Filed By	April 15	May 15
Completed By	May 1	June 1

First Summer Term

June 7	Monday	Registration (Last day to register without late penalty of $5)
June 8	Tuesday	Classes begin
June 10	Thursday	Last day to register or withdraw (or drop a course) with refund
June 14	Monday	Last day to drop course without grade evaluation
June 28-30	Monday-Wednesday	Registration for second summer session for students enrolled in first session
July 9	Friday	Last day of classes
July 12	Monday	Reading day
July 13-14	Tuesday-Wednesday	Final Examinations

Second Summer Term

July 15	Thursday	Registration (Last day to register without late penalty of $5)
July 16	Friday	Classes begin
July 20	Tuesday	Last day to register or withdraw (or drop a course) with refund
July 23	Friday	Last day to drop a course without grade evaluation
August 16	Monday	Last day of classes
August 17	Tuesday	Reading day
August 18-19	Wednesday-Thursday	Final Examinations

General Information

The summer session is designed to allow regular students an opportunity to accelerate their college work or to make up deficiencies, to encourage new students to begin their college careers early, to furnish teachers an opportunity to renew their certificates or broaden their general knowledge and skills, and to provide opportunities for persons with specific interests to attend college for short periods of time.

Grading

Reports at the end of each term will be based upon the following grading system:

A	Excellent	*D*	Passed
B	Good	*F*	Failed
C	Fair	*I*	Incomplete

W Official Withdrawal

Attendance

Regular attendance in all classes is required

Courses Offered

NOTE: PLEASE READ WITH CARE

1. The administration reserves the right to withdraw courses with insufficient enrollment. Courses may be added if there is sufficient demand.
2. Semester hour credits for each course are given in parentheses following the name of the course. An N after the course number indicates the course is taught at night. All 500 numbered courses and courses marked with an asterisk are open to graduates and undergraduates; all 600 numbered courses are graduate only.
3. A three semester hour course in the summer requires three times the daily pace as one during the regular semester. It is expected that each student register for not more than seven semester hours of credit per term.
4. Classes meet daily, Monday through Friday, except where specified to the contrary.
5. Letters used to refer to buildings:

A—Academic Building "A"	LA—Liberal Arts Building
C—Denny Building	R—Rowe Fine Arts Building
D—Academic Building "D"	S—Smith Building
K—Kennedy Building	U—University Center

Library

The college library will be open for the use of college students from 8:00 a.m. to 11:00 p.m., Monday through Friday; 9:00 a.m. to 5:00 p.m., Saturday; and 2:00 p.m. to 11:00 p.m. on Sunday.

Use of Gym in Summer

All full-time and part-time students may use the recreational spaces in the gymnasium without additional charge. The student's summer school receipt will gain him entry into the facility. During unorganized physical recreational periods, facilities will be used on a first come, first served basis. Participants should follow the rules of sports etiquette in regard to those waiting.

If a student wishes to have equipment checkout privileges, a locker, laundry service, etc., he can acquire them by paying a fee of $3.00 per summer session at the Business Office.

Admissions

Summer Visitor

The University invites students from other college campuses to take advantage of the summer programs. Applicants from other colleges must have approval from their dean to take courses at the University of North Carolina at Charlotte, and must be in good standing. The University assumes no responsibility in determining a student's course selection when such credits are to be transferred elsewhere.

Enrollment in the Summer Session in no way obligates the University to continue one's enrollment at the University of North Carolina at Charlotte. Those who seek to transfer must complete the application for undergraduate admission and meet the requirements therein. Applicants for admission are required to submit a $10.00 application fee with the application form. The fee is not deductible and is not refundable.

Summer applicants receive from the Office of Admissions a letter of acceptance.

Freshman Admissions

Freshman applicants must present the following:

1. All information requested on the application form.
2. An application fee of $10.00. *It is not refundable.*
3. Record of graduation from an accredited secondary school.
   (a) Completion of 16 acceptable units, 13 of which must be in academic subjects.
   (b) Completion of courses as required by the degree program for which the student applies.
4. Satisfactory scores on the Scholastic Aptitude Test of the College Entrance Examination Board.
   (a) The Admissions Committee will consider SAT scores from any of the national testings.

(b) Each applicant is responsible for having official examination scores sent from the Educational Testing Service to the Admissions Office.

5. Satisfactory evidence of good character, good physical and mental health.
   (a) The applicant is responsible for requesting the principal or counselor of the secondary school to furnish the Admissions Office with a recommendation.
   (b) The required medical form is included in the application and must be received before an application can be considered.
6. The activities card is part of the application and should be returned with the application.

Transfer Admissions

Transfer applicants must present the following:

1. All information requested on the application form.
2. An application fee of $10.00. *It is not refundable.*
3. Official transcript from the high school of graduation.
4. Official transcript showing honorable dismissal and recommendations from each college or university attended.
5. The minimum of an overall *C* average (2.0 based on *A* grade being equated at 4 points according to the UNCC method of computation) on all courses taken at institutions attended.
6. Any transfer with less than 24 semester hours of acceptable credit must meet all freshman entrance requirements as well as those listed above.

Transfer within the Consolidated University

Transfer applicants from other campuses of the Consolidated University of North Carolina are considered for admission on the basis of different criteria. As a general rule, students eligible to continue at other campuses of the Consolidated University of North Carolina may transfer to the Charlotte campus so long as their cumulative averages correspond to the averages needed to be eligible at the University of North Carolina at Charlotte and their previous academic work is judged satisfactory and appropriate for the curriculum selected at the University of North Carolina at Charlotte.

Students transferring to the University of North Carolina at Charlotte from other campuses of the Consolidated University of North Carolina will receive credits in accordance with their record with grades and quality points being accepted. As a rule, the student will have the same grade point ratio that he presents.

Transfer from a Junior College

Transfer students entering the University after attending a junior college will receive no more than 66 semester hours transfer credit toward the Bachelor of Arts degree and no more than 70 semester hours toward the Bachelor of Science degree.

Expenses

The rates for each of the 1971 summer terms are based on the number of semester hours taken by each student and include fees.

No extra fees are charged for laboratory courses as such. However, when individual music study is offered, an extra fee is charged in the amount of $45.00 per term for one hour credit.

A parking fee of $4.00 is charged for the summer session. This fee is applicable for a term if one elects to attend only one term.

The University reserves the right to make, with the approval of the proper authorities, changes in tuition and other fees at any time.

Fees	*In-State Students*	*Out of State Students*
2 Semester Hours *(minimum)*	$36.50	$ 77.17
3 Semester Hours	$44.50	$105.50
4 Semester Hours	$52.50	$133.83
5 Semester Hours	$60.50	$162.17
6 Semester Hours	$68.50	$190.50
7 Semester Hours	$76.50	$218.83

Refund of Fees

A student who officially withdraws from the University on or before the third day of classes in each summer session will receive a refund of the full amount paid less a registration fee of $10. After the period specified, no refund will be made.

Graduate Studies

Master of Education and Master of Arts in Education

The University of North Carolina at Charlotte offers three graduate degree programs, two of which are directed primarily to the in-service school teachers in the Metrolina area. The Master of Education is designed for elementary and other school personnel. The Master of Arts in Education is designed chiefly for the secondary school teacher, with initial areas of academic concentration in English, history, and mathematics. Additional areas are to be added as rapidly as resources become available.

For admission to graduate study at the University of North Carolina at Charlotte, application must be made on a form supplied by the Director

of Graduate Studies and accompanied by appropriate test scores, letters of recommendation, and official transcripts of all academic work taken beyond the high school. Applicants must possess a bachelor's degree, or its equivalent, have an overall quality point average of 2.50 (on the 4 point system) on all work beyond high school, with an average of 3.0 or better on the major or basic courses prerequisite to the area of proposed graduate study. Applicants for admission to programs leading to the M.Ed. or M.A.Ed. will normally possess a valid North Carolina Class "A" teacher's certificate, or be approved in advance.

At least half of all work offered for an advanced degree must be taken in courses which are open to graduate students only; the other half may be from such courses or from courses open to advanced undergraduates and graduate students. Courses open to graduate students only are listed as 600 to 699. Courses open to both graduate and undergraduate students are preceded by an asterisk.

Requirements for the Master of Education include a minimum of thirty hours of approved course work, at least twelve of which shall be in professional education, twelve in no more than two content areas, and six in electives approved by the student's adviser. Those for the Master of Arts in Education include thirty hours of approved course work, of which at least eighteen must be in a single content area and at least six in professional education. No more than six hours transfer credit will be accepted, except that up to twelve hours may be accepted from another campus of the Consolidated University of North Carolina.

Master of Management

The University also offers, through a thirty-six hour program, a Master of Management degree designed to develop candidates for leadership positions in complex organizations of the future. Admission to this program is open to qualified graduates of recognized colleges or universities accredited by a regional or general accrediting agency. There are four major requirements for admission, (1) a generally satisfactory undergraduate record, (2) an acceptable score on the Admissions Test for Graduate Study in Business, administered by the Educational Testing Service of Princeton, New Jersey, (3) a description of any significant work experience, and (4) three supporting letters of recommendation from professors or employers.

Candidates who wish to enter the Master of Management program for the first time in the summer of 1971 must file all data necessary to support their applications, including relevant test scores with the Graduate Office two months prior to the beginning of the summer term.

For further information write: Director of Graduate Studies, Master of Management Program, University of North Carolina at Charlotte, UNCC Station, Charlotte, North Carolina 28213.

Application Deadlines

Applications for admission to the graduate programs for the first summer session must be filed by April 15, 1971, and completed by May 1, 1971. Applications for admission to the graduate programs for the second summer session must be filed by May 15, 1971, and completed by June 1, 1971.

The Residence Halls

The University offers a new concept in on-campus housing. Two residence halls provide a congenial atmosphere for living and learning. The buildings, while housing a large number of students, are designed to provide for the intimacy of small groups as well as for the larger social groupings through which a meaningful living-learning program is developed.

In addition to well planned bedrooms, the halls provide lounges, study and seminar rooms and recreation space—all *air conditioned* for total comfort.

The bedrooms are a combination study and sleeping space for two students. Each student has his own desk with desk lamp and bookshelves, wardrobe, chest of drawers and bed. Rooms may be used for single occupancy when space permits. Two high-speed elevators service each hall, and each suite has a telephone.

Student mail boxes, a vending machine area, a library-lounge, and the resident manager's apartment are on the main floor. The lower floor contains the recreation room, self-service laundry area, laundry-dry cleaning pickup and delivery room, and trunk storage. Maids and custodians clean bathrooms and public areas daily, and bedrooms weekly. A linen service, which provides 2 sheets, one pillow case, and 3 bath-size towels weekly, is available on a subscription basis at $6.75 plus 4% tax per six-week term.

Charges are pro-rata amounts of the regular semester charges and for rooms are as follows:

Each student in double room, each 6 week term: . . $65.00
Single occupancy of a double room, each 6 week term: $97.50

Meals will be available 7 days per week on a cash basis in the University cafeteria.

Financial Aid

Regularly enrolled UNCC students may apply for financial aid for the summer sessions. All financial aid—scholarships, grants-in-aid, loans, and work study opportunities—is awarded on the basis of financial need. Summer visitors from other campuses are not eligible for financial assistance.

Information and applications may be secured from the Office of Financial Aid, Room 112, Administration Building, University of North Carolina at Charlotte, UNCC Station, Charlotte, N. C. 28213.

Counseling Center

The University Counseling Center, 116 Administration Building, is a psychological service available at no cost to the University community. Staffed by professionally trained counselors and psychologists, the service is designed to assist individuals in developing a more effective and satisfactory adjustment in college life.

Individuals may receive assistance in resolving personal problems, exploring educational and vocational goals, and developing more effective reading and study skills. Consultation services are available to University groups and agencies.

The University Center

The Center is the community center for all members of the University family—students, faculty, administration, alumni, and guests. The Center provides for the services, conveniences, and amenities needed in the daily life of members of the University family. It houses the bookstore, cafeteria, games room, lounge-gallery area, a large multi-purpose room, meeting rooms, offices for student government and the major publications, and an information center.

The Center is open for breakfast at 7:00 a.m. and remains open, normally, until 8:00 p.m.

The Student Activities Board is responsible for the program of social activities, lectures, recreational activities, and concerts which are presented in the Center and in the residence halls.

Short Courses

Eight Week Courses—June 21-August 13

MATHEMATICS

Course No.	*Title*		*Time*	*Room No.*
MAT 600	*Foundations of Mathematics*	MWF (3)	8:00- 9:30	S-226
	Instructor: Staff			
	Prerequisite: Consent of the department. Sets, logic, and axiomatics with examples drawn from algebra and geometry.			
MAT 606	*Topics in Algebra*	MWF (3)	10:00-11:30	S-226
	Instructor: Hedstrom			
	Prerequisite: 601 or consent of the department. A selection of topics from the classical algebraic structures, including groups, rings, fields, and vector spaces. May be repeated for credit.			

Three Week Courses—July 15-August 6

HUMAN DEVELOPMENT AND LEARNING

	1. Explorations in Human Potential		8:30-12:00	
HDL600-1	*Explorations in Human Potential*			
	A. The Person and School in Urban Society	(3)		A-112
	Instructor: Pleasants			
	B. The Facilitation of Meaning	(3)		A-214
	Instructor: Smith			
	C. Children and Youth	(3)		K-120
	Instructor: Powers			
	A course designed to explore in depth the identification, development and release of human potential. Emphasis will be given to techniques, relationships, and programs which develop potential. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. The Person and School in Urban Society; B. The Facilitation of Meaning; C. Children and Youth.			
	2. Meaning and Growth in Teaching/ Learning Relationships			
HDL625-1	*Concepts of Teaching and Learning*		8:30-12:00	
	A. Integrated Studies	(3)		K-207
	Instructor: Staff			
	C. Science	(3)		S-301
	Instructor: Pollak			

A course designed to provide the student with an opportunity to critically examine current trends and practices in particular areas of the curriculum, such as: A. Integrated Studies, and C. Science.

Course No.	*Title*		*Time*	*Room No.*
HDL630-1	*Examination and Appraisal of Reading Instruction*	(3)	8:30-12:00	S-303

Instructor: Hackney

Aspects of the reading program ranging from readiness to diagnostic and remedial techniques. Current practices and materials used in reading programs are investigated and evaluated. Emphasis will be placed on a flexibility of programs to meet the learning needs of individual students.

3. The Helping Relationship

HDL665-1	*Analyzing and Developing Approaches to the Helping Relationships D. Supervision*	(3)	8:30-12:00	S-306

Instructor: Chase

A course designed for the study of ways, means, and concepts of improving instruction, learning, and development through the helping relationship. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as D. Supervision and other approaches and processes defined as the helping relationship.

HDL570-1	*Selected Topics in Human Development and Learning*	(3-6)	8:30-12:00	S-325

Prerequisite: Education 201 and permission of the College. Topics and special problems chosen in relation to human learning, ideas, practices, significant movements, or detailed study of models for human learning. Seminars, independent study, and clinical experiences. (May be repeated for credit with approval.)

Seminars, Institutes, Workshops

NSF Cooperative College-School Science Program in Earth Science
June 8-July 16

The Program will consist of a six-week summer phase and an academic year follow-up phase. Upon successful completion of the program, eleven (11) semester hours of credit will be granted. (Eight (8) semester hours for the summer phase and three (3) semester hours for the academic year phase.) The credit will be applicable toward the renewal of a Class "A" certificate or toward the upgrading of a Class "B" certificate. Credit for the summer phase will be given under the following two courses during the first summer session:

Course No.	*Title*		*Time*	*Room No.*
Geography 650	*Workshop in Geography* *a. Earth Science I* A series of lectures on the subject matter of the atmosphere and hydrosphere with accompanying laboratory sessions. MTWThF, June 8-July 25.	(4)	9:00-12:00 and 1:00- 4:00	S-327
Geology 651	*Workshop in Geology* *a. Earth Science II* A series of lectures on subject matter of the lithosphere and space science with accompanying laboratory sessions. MTWThF, June 28-July 16.	(4)	9:00-12:00 and 1:00- 4:00	S-327

For information write:

Dr. James W. Clay
Cooperative College-School Science Program Director
Associate Professor of Geography
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

Selected Topics in Human Development and Learning

HDL 570-1	Movement and Learning June 14-June 25 Director: Murphy Actuating the teaching/learning process through the medium of movement. (For teachers—preschool, grades 1, 2, 3)	(3)	8:30- 1:00	Gym
HDL 570-2	Newspaper in the Classroom July 15-August 6	(3)		

Inquiries should be directed to:

College of Human Development and Learning
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

The Robert A. Taft Institute of Government Seminar (3)
June 14-June 25 (MTWTF)

(Political Science *450-1) The Robert A. Taft Institute of Government and the Institute for Urban Studies and Community Service at the University of North Carolina at Charlotte are co-sponsoring a graduate seminar for 30 school teachers, secondary and elementary, who have responsibility for conducting social studies, civics, or government classes. Seminar leaders will include Congressmen, State legislators, city and county officials, political party officials, members of governmental bureaucracies, interest group spokesmen, newspaper and television officials, and university professors. The Seminar will be entitled "State Politics in the 1970's." Teachers selected to participate will receive a grant to cover room and board expenses for the two-week period in addition to a waiver of tuition (out-of-state tuition costs must be paid by the participant.)

Inquiries should be directed to:

Dr. Schley R. Lyons
Department of Political Science
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

Institute on Constitutional Democracy and Totalitarianism
July 19-August 13 *1:00-4:00* *C-111*

To update teachers' skills and knowledge in comparative government and economics, especially as it relates to the Soviet Union and the United States. (Scholarships in the amount of $350 to qualified teachers plus N. C. Department of Public Instruction in-service grants of $65 to cover tuition.)

Inquiries should be directed to:

Professor Albert Hughes
Director, Political Science
Appalachian State University
Boone, North Carolina 28607

Service-Learning Internship Program
(First Summer Term)

The service-learning Internship Program in Community Education and Service is designed as an area-wide academic program with credit in the College of Social and Behavioral Sciences. The program is serviced through the Institute for Urban Studies and Community Service.

The following are the overall objectives of the Internship Program:

A. To identify relationships between the student's academic program and the problems and prospects of modern urban communities.

B. To enable students to become involved in solving problems of the urban community.

C. To provide manpower for governmental and service agencies in local metropolitan communities.

D. To encourage youth to consider careers and/or citizen leadership in urban administration and service.

E. To establish a closer relationship between institutions of higher education and the Charlotte area communities by making the resources of the colleges and universities more accessible to the community and by providing a basis for keeping curriculum, teaching, and research relevant to the needs of the community and society.

Interns will receive six semester hours of academic credit for their participation in the Program in Community Education and Service by enrolling in the following courses in the College of Social and Behavioral Sciences (SBS) at the University of North Carolina at Charlotte:

SBS 397 *Internship in Community Education and Service* (3)
Prerequisite: Junior standing, acceptance into the program, and approval of the student's major department. Corequisite: SBS 398. A project-oriented, service-learning internship with cooperative community organizations.

SBS 398 *Seminar in Community Education and Service* (3)
Corequisite: SBS 397 or participation in a service-learning situation approved by the College of Social and Behavioral Sciences. A forum for the analysis of needs in the urban community and the responses being generated to meet them. Interpreting the relationship between internship experiences in terms of the service-learning concept.

Note: The intern's major department has the option of recognizing this credit as fulfilling departmental requirements and granting permission to repeat for credit. Interns not regularly enrolled at the University of North Carolina at Charlotte are responsible for arranging for transfer of credit with their home institutions.

Schedule of Courses For First Term
Summer Session 1971
June 7 - July 14

ART

Course No.	*Title*		*Time*	*Room No.*
201-1	*Art Appreciation* Instructor: Gatewood An introduction to art history and appreciation covering basic concepts, aesthetic aims, and social influences which characterize and differentiate one civilization or period from another.	(3)	12:30- 2:00	R-101
305-1	*Painting* (MTWTh) Instructor: Gatewood Prerequisite: Art 204 or permission of instructor. A studio course investigating techniques and approaches in painting.	(3)	8:00-11:30	R-231
302-1	*Art for Elementary Teachers* Instructor: Nonn Prerequisite or corequisite: Education 303. A study of materials and techniques which the teacher may use in art activities in the school.	(3)	2:00- 4:30	R-216

Course No.	*Title*	*Time*	*Room No.*
320-1	*General Crafts* (3) Instructor: Nonn Prerequisite: Art 204. An introductory studio course in the various craft media and techniques, including ceramics, metal, wood, and fiber.	8:00-11:30	R-214
BIOLOGY			
101-1	*Principles of Biology* (4) Instructor: Johnson	12:30- 2:00	K-107
101-L01	Laboratory (TWTh) Instructor: Johnson	2:10- 4:00	K-221
101-L02	Laboratory (TWTh) Instructor: Staff No credit toward a biology major. A course designed to acquaint the student with the fundamental principles of life.	2:10- 4:00	K-201
205-1	*Human Anatomy and Physiology* (3) Instructor: Hogan Prerequisite: one semester of biology. No credit toward a biology major. Basic fundamentals of the anatomy and physiology of the human body as an integrated unit.	12:30- 2:00	K-207
205-A	*Human Anatomy and Physiology Laboratory* (1) (TWTh) Instructor: Hogan Prerequisite or corequisite: Biology 205.	2:10- 5:00	K-220
221-1	*Animal Biology* (4) Instructor: Menhinick	12:30- 2:00	K-120
221-L01	Laboratory (TWTh) Instructor: Menhinick Open to majors and non-majors; one course in biology prerequisite for non-majors. The morphology, function, development, phylogeny, and ecology of the principle invertebrate and vertebrate types.	2:10- 5:00	K-214
335-1	*Human Genetics* (3) Instructor: Hildreth Prerequisite: one semester of biology. The inheritance of physical and mental characteristics in man. Effects of mutation, selection, migration, and environment are considered.	10:00-11:30	K-107
497	*Investigations in Biology* (1-4) May be repeated for credit. Prerequisite: permission of the department. A course designed to allow the senior Biology major to initiate a research project in his field of interest.	TBA	

BUSINESS ADMINISTRATION

Course No.	*Title*		*Time*	*Room No.*
BAD 201-1	*Principles of Accounting I* Instructor: Turner	(3)	8:00- 9:30	C-102
BAD 201-2	*Principles of Accounting I* Instructor: Drucker	(3)	10:00-11:30	C-102
BAD 201-3	*Principles of Accounting I* Instructor: Williamson	(3)	10:00-11:30	C-103
BAD 201-L01	*Laboratory (T)* Instructor: Turner		2:30- 4:30	C-102
BAD 201-L02	*Laboratory (M)* Instructor: Drucker		2:30- 4:30	C-102
BAD 201-L03	*Laboratory (W)* Instructor: Williamson A study of accounting principles with emhasis on managerial uses of accounting data, and analysis of financial statements.		2:30- 4:30	C-102
BAD 371-1	*Cost Accounting* Instructor: Williamson	(3)	8:00- 9:30	C-103
BAD 371-L01	*Cost Accounting Laboratory (M)* Instructor: Williamson Prerequisite: BAD 202. A study of cost determination and control. Includes procedures for job order, process and standard systems, and management uses of cost data.		2:30- 4:30	C-103
BAD 374-1	*Intermediate Accounting I* Instructor: Turner	(3)	10:00-11:30	C-106
BAD 374-L01	*Laboratory (M)* Instructor: Turner Prerequisite: BAD 202. A study of accounting theory and concepts and their application to financial accounting.		2:30- 4:30	C-106
BAD 380-1	*Business Law* Instructor: Trosch	(3)	10:00-11:30	C-118
BAD 380-2	*Business Law* Instructor: Williams A study of the legal environment within which business operates, topics covered include contracts, sales, negotiable instruments, agency, partnerships, and corporations.	(3)	12:30- 2:00	C-102
BAD 400-1	*Industrial Management* Instructor: Conrad Prerequisites: Economics 202 and BAD 202. The principles underlying the solution of	(3)	8:00- 9:30	C-105

problems in organization and operation of industrial enterprises. Emphasis placed on the management functions of planning, organizing, actuating and controlling business activity.

Course No.	*Title*		*Time*	*Room No.*
BAD 444-1	*Organizational Theory* Instructor: Conrad Prerequisite: Economics 202. An application of traditional and behavioral concepts to business organization and decision making. Primarily a study of the process of modern feed back systems of group behavior.	(3)	10:00-11:30	A-106
CHEMISTRY				
101-1	*Principles of Chemistry* Instructor: Staff	(4)	12:30- 2:00	C-109
101-L01	*Laboratory (TWTh)* Instructor: Staff		2:10- 5:00	K-320
101-L02	*Laboratory (TWTh)* Instructor: Staff Prerequisite or corequisite: Mathematics 101 or Mathematics 103. Fundamental postulates and laws of chemistry; the relationship of atomic structure to physical and chemical properties of the elements.		2:10- 5:00	K-309
203-1	*Organic Chemistry* Instructor: Staff	(4)	12:30- 2:00	C-103
203-L01	*Laboratory (TWTh)* Instructor: Staff		2:10- 5:00	K-310
203-L02	*Laboratory (TWTh)* Instructor: Staff Prerequisite: Chemistry 102. Basic theories, principles, and techniques of organic chemistry and their applications to reactions of aliphatic and aromatic compounds and natural products.		2:10- 5:00	K-310
ECONOMICS				
Eco 201-1	*Principles of Economics-Macro* Instructor: Rogers	(3)	8:00- 9:30	C-106
Eco 201-2	*Principles of Economics-Macro* Instructor: Jorgensen	(3)	10:00-11:30	A-107
Eco 201-3	*Principles of Economics-Macro* Instructor: Trosch The first semester of a one-year introductory course in Economics. Topics considered	(3)	8:00- 9:30	A-107

include the scope and methodology of economics as a social science, the measurement of national income, the theory of national income determination, money and banking, monetary and fiscal policy.

Course No.	*Title*		*Time*	*Room No.*
Eco 305-1	*Industrial Relations* Instructor: Rogers	(3)	10:00-11:30	A-109
Eco 305-2	*Industrial Relations* Instructor: Williams Prerequisite: Eco 202. Systematic analysis of sociological, economic, and political forces affecting and affected by the work environment. Special emphasis on market structure, the small group, the legal environment, and union structure.	(3)	10:00-11:30	A-209
Eco 312-1	*Econometrics* Instructor: Liner	(3)	10:00-11:30	A-211
Eco 370-1	*Monetary and Fiscal Policy* Instructor: Liner	(3)	8:00- 9:30	A-109
Eco 480-1	*Government and Business* Instructor: Jorgensen Prerequisite: Economics 202. A historical development of government regulation of business, utilizing the case study approach to develop an understanding of current philosophies and problems in this area.	(3)	8:00- 9:30	**A-211**
ENGINEERING				
EGR 101-1	*Introduction to Engineering Problems I* Instructor: Norem An introduction to the concepts, techniques, and tools used to solve engineering problems. Use of the slide rule; elements of engineering drawing. Introduction to computer programming. Introduction to graphical analysis.	(2)	8:00- 9:30	S-227
EGR 251-1	*Basic Engineering Laboratory I* (MWF) Instructor: Smith Prerequisite or corequisite: EE 211. The first of a series of engineering laboratories designed to instruct the student in the use of laboratory equipment, and to develop and apply the principles of experimentation and measurement.	(1)	2:00- 5:00	S-228
CE 211-1	*Surveying* (MTWTh) Instructor: Evett (TTh) Prerequisite: Math 144. Elements of plane surveying including taping, transit, level,	(3)	10:00-11:30 2:00- 5:00	S-227 S-227

stadia, plane table, topograhic surveying and mapping, care and adjustment of instruments; error adjustments, area and earthwork computations; introduction to photogrammetry; computer techniques.

Course No.	*Title*		*Time*	*Room No.*
EE 211-1	*Linear Networks I* Instructor: Wayne Prerequisite: Math 144. Introduction to Kirchoff's current and voltage equations using oriented linear graph techniques. Formulation of cut set and circuit matrices. Terminal equations of network elements. Fomulation of the primary and secondary systems of equations by matrix methods. Network theorems and equivalence. Power and energy functions.	(3)	10:00-11:30	S-228
EM 211-1	*Engineering Mechanics I* Instructor: Evett Prerequisite or corequisite: Math 244. Review of vector algebra; unit vectors, scalar and vector products of vectors. Newton's Laws: the equilibrium of a particle, friction, the equilibrium of systems of particles and of rigid bodies. Center of gravity, center of mass, centroids. The kinematics of a particle: rectangular Cartesian and orthogonal curvilinear coordinates. The kinematics of rigid bodies; relative motion. The dynamics of a particle: Newton's Second Law, work and kinetic energy, potential energy, conservative force fields, impulse and momentum.	(3)	12:30- 2:00	S-227
ME 311-1	*Thermodynamics I* Instructor: Kim Prerequisites: EM 211 or Physics 221, Math 271. First and second law of thermodynamics. Work and heat. Thermodynamic probability and entropy. Ideal and real gases. Nonreactive mixture of gases. Availability and irreversibility. Vapor and gas power cycles.	(3)	8:00- 9:30	S-228

ENGINEERING TECHNOLOGY

ET 370-1	*Basic Engineering Analysis* Instructor: Grant Prerequisite: College algebra, trigonometry, and analytic geometry. A course designed to give students intensive practice in the methods of solving static engineering prob-	(3)	8:00- 9:30	S-349

lems which require a knowledge of algebra, determinants, trigonometry, analytic geometry, and vector algebra.

ENGLISH

Course No.	*Title*		*Time*	*Room No.*
101-1	*English Composition* Instructor: Shapiro	(3)	10:00-11:30	A-208
101-2	*English Composition* Instructor: Kerwin Readings and intensive practice in writing, especially exposition, with emphasis on rhetorical effectiveness.	(3)	12:30- 2:00	A-207
102-1	*English Composition* Instructor: Kerwin	(3)	8:00- 9:30	A-207
102-2	*English Composition* Instructor: Grey Critical writing, collateral reading, and introduction to literary study.	(3)	12:30- 2:00	A-206
201-1	*English Literature* Instructor: Wallace	(3)	8:00- 9:30	A-204
201-2	*English Literature* Instructor: Mason Prerequisite: English 101 and 102. Intensive study of the masterpieces of British literature in chronological sequence before 1700.	(3)	10:00-11:30	A-204
204-1	*Major American Writers* Instructor: Hedges Prerequisite: English 101 and 102. Extensive readings in six to eight authors. Recommended for non-English majors who are working for teachers certificates. Does not count toward an English major.	(3)	8:00- 9:30	A-209
*321-1	*The Earlier Seventeenth Century* Instructor: Wallace Major writers from Bacon and Donne to the Restoration.	(3)	12:30- 2:00	A-208
332-1	*Introduction to Modern English* Instructor: Varnas An introduction to the phonology and grammatical structure of present-day English, with some consideration of word formation, changes in meaning, dialectal differences, and problems of usage.	(3)	10:00-11:30	A-205
341-1	*American Literature, 1820-1890* Instructor: Mason The chief writers and literary movements from Irving to Whitman.	(3)	12:30- 2:00	A-204

**Open to graduates and undergraduates.*

Course No.	*Title*		*Time*	*Room No.*
342-1	*American Literature Since 1890* Instructor: Shapiro The chief writers and movements from Howells to the present	(3)	8:00- 9:30	A-206
*413-1	*English Prose and Poetry of the Sixteenth Century* Instructor: Moose The major works, excluding drama, More through Spenser, with attention to the development of the lyric.	(3)	10:00-11:30	A-206
*450-1	*Modern Poetry* Instructor: Grey Chief British and American poets of this century.	(3)	10:00-11:30	A-207
*461-1	*Modern English Grammar* Instructor: Varnas Prerequisite: English 331 or 332. A descriptive analysis of the structure of Modern English with emphasis on the transformational approach.	(3)	8:00- 9:30	A-208
612-1	*Shakespeare's Tragedies* Instructor: Moose Sources, materials, textual problems, and stage conventions of selected tragedies, chosen primarily from the periods of the great tragedies, illustrating Shakspeare's dramaturgy.	(3)	12:30- 2:00	A-205
FRENCH				
101-1	*Elementary French* Instructor: Rothe	(4)	12:30- 2:00	LA-203
101-L1	*Elementary French Laboratory* Fundamentals of French grammar and phonetics, reading, and conversation. Ninety minutes of class and fifty minutes of laboratory work per day. (No college credit given if student has received credit for same language to satisfy entrance requirements.)		10:00-11:00	LA-106
201-1	*Intermediate French* Instructor: Rothe	(4)	8:00- 9:30	LA-203
201-L1	*Intermediate French Laboratory* Prerequisite: French 102 or permission of department. Review grammar, with composition and conversation based upon readings		10:00-11:00	LA-106

**Open to graduates and undergraduates*

on French culture and civilization. Ninety minutes of class and fifty minutes of laboratory work per day.

Course No.	*Title*		*Time*	*Room No.*
301-1	*Advanced French Grammar, Composition, and Conversation I* Instructor: Slechta Prerequisite: FR 202, or permission of the department. For prospective teachers of French and students who want intensive oral and written work in the language. Book reports on collateral readings.	(3)	3:00- 4:30	LA-203
301-L1	*Advanced French Grammar, Composition and Conversation I Lab*		2:00- 3:00	LA-106

GEOGRAPHY

101-1	*Earth Science Geography* Instructor: Lord	(4)	12:30- 2:00	S-218
101-L1	*Earth Science Geography Laboratory* (MW) Instructor: Lord		2:00- 5:00	S-347
101-L2	*Earth Science Geography Laboratory* (TTh) Instructor: Staff A study of basic geographical principles and processes in earth science; the earth—its position and motions; the grid system; weather; climate; the waters; soils; and vegetation. One and one-half hours lecture per day and one laboratory period of 3 hours a week.		2:00- 5:00	S-347
201-1	*Economic Geography* Instructor: Walcott A study of the location and functioning of economic activity with an emphasis on physical and human geographic factors in analyzing patterns of production, exchange, and consumption.	(3)	8:00- 9:30	S-217
303-1	*Anglo America* Instructor: Walcott The geographic structure of the U. S. and Canada with emphasis on both the physical environment and the patterns of human activity.	(3)	10:00-11:30	S-217

GERMAN

101-1	*Elementary German* Instructor: Gabriel	(4)	8:00- 9:30	LA-205

Course No.	Title	Time	Room No.
101-L1	*Elementary German Laboratory* Fundamentals of German grammar and phonetics, reading, and conversation. Ninety minutes of class and fifty minutes of laboratory per day. (No college credit given if student has received credit for same language to satisfy entrance requirements.)	10:00-11:00	LA-106
201-1	*Intermediate German* (4) Instructor: Gabriel	12:30- 2:00	LA-205
201-L1	*Intermediate German Laboratory* Prerequisite: German 102 or permission of department. Ninety minutes of class and fifty minutes of laboratory per day. Review grammar, composition, and conversation based on readings on the culture and civilization of German-speaking countries.	10:00-11:00	LA-106

HEALTH EDUCATION

101-1	*Health Education* (M-Th) (1) Instructor: Staff A general introductory course. Basic ideas of human anatomy, physiology, and chemistry are applied toward an understanding of human health problems.	12:30- 1:45	Gym-229
409-1	*Health Education Laboratory* (3) Instructor: Staff Prerequisites: HED 101 and Education 303. Health instruction, principles of health teaching for the elementary grades.	10:00-11:30	Gym-229

HISTORY

101-1	*Modern Western Civilization to 1815* (3) Instructor: Warren This course commences with broad survey of ancient and medieval contributions to modern Western civilization and then treats intensively the development of Western civilization from the Renaissance to 1815.	8:00- 9:30	C-115
102-1	*Modern Western Civilization, 1815 to present* (3) Instructor: Morrill Prerequisite: History 101. Continuation of History 101 with greater emphasis on developments outside the Atlantic community of Western civilization.	10:00-11:30	C-115
201-1	*American History to 1865* (3) Instructor: Josephson	10:00-11:30	C-105

Course No.	Title		Time	Room No.
201-N	*American History to 1865* Instructor: Robbins Survey of American history from the earliest times to 1865.	(3)	6:00- 7:30	C-114
202-1	*American History 1865 to present* Instructor: Perzel Survey of American history from 1865 to present.	(3)	12:30- 2:00	C-114
303-1	*History of Greece* Instructor: Ploger A brief study of the Ancient Near East followed by an intensive study of Greece to 332 B.C.	(3)	10:00-11:30	C-117
317-1	*Nineteenth Century Europe, 1814-1914* Instructor: Warren A survey of the major political developments in European history from the Congress of Vienna. Emphasis will be placed on liberalism, nationalism, imperialism, and the diplomatic agreements leading to World War I.	(3)	12:30- 2:00	C-117
*340-1	*The Frontier in American History* Instructor: Perzel A study of the influence of the moving frontier line on the historical development of the United States. Emphasis will be placed on the trans-Mississippi Western United States. For comparative purposes some consideration will be given to other world frontiers.	(3)	10:00-11:30	C-114
350-1	*Topics in History* Instructor: Cunningham Afro-American History, 1619-1970. Survey of Afro-American History. Critical study of major problems such as slavery, quasi-free blacks, the abolitionist movement, blacks in America's wars, segregation, disenfranchisement, the NAACP and Urban League, the Harlem Renaissance, and recent struggles for full citizenship.	(3)	12:30- 2:00	C-115
363-1	*Modern Britain and the British Empire since 1789* Instructor: Ploger Continuation of History 362 with greater emphasis on the Empire and the Commonwealth.	(3)	8:00- 9:30	C-117

Open to graduates and undergraduates

Course No.	*Title*	*Time*	*Room No.*
*404-N	*The Crusades* (3) Instructor: Wrigley The High and Later Middle Ages (1065 A.D.-1349 A.D.) Western Europe from the struggle between the empire and papacy to the Black Death. A study of the crusades, origin of towns, parliaments, the middle class, universities, the secularization and centralization of governments.	6:00- 7:30	C-117
*432-1	*Civil War and Reconstruction, 1860-1877* (3) Instructor: Robbins Prerequisite: History 201 or 202. A study of the American people in war and post-war adjustment. Emphasis is placed on the political, social, and economic conditions of the North and South during the Civil War and Reconstruction period.	2:30- 4:00	C-114
*437-1	*American Foreign Relations, 1763-1901* (3) Instructor: Josephson A study of American diplomatic history from the establishment of an independent foreign policy to the emergence of the United States as a world power.	8:00- 9:30	C-114
492-A	*Seminar in History* (3) Instructor: Cunningham Seminar in History—Afro-Americans from Civil War to the present. An intensive examination of the black man's experience in American History, with emphasis on Reconstruction, segregation, disenfranchisement, organizational efforts and other Civil Rights movements.	8:00- 9:30	C-101
693-1	*Historiography and Methodology* (3) Instructor: Wrigley Study of the historian and his philosophical and methodological approach.	2:30- 4:00	C-101
694-1	*Readings in History* (3) Instructor: Morrill Coverage of historical periods or topics through individually designed reading program; scheduled conferences with staff member.	12:30- 2:00	C-101

Open to graduates and undergraduates

HUMAN DEVELOPMENT AND LEARNING (EDUCATION)

Course No.	*Title*	*Time*	*Room No.*

Teacher education and other programs in human development and most professional certification guidelines require professional study in at least four areas:

1. Explorations in Human Potential

HDL201-1	*Introductory Explorations in Human Potential* Instructor: Staff	(3)	8:00- 9:30	D-101
HDL201-2	*Introductory Explorations in Human Potential* Instructor: Etten An introductory course in the philosophical foundation of the educative process designed to explore the nature of man, and human potential in relation to one's system of beliefs, values, and relationships. Emphasis is given to the analysis and development of the student's beliefs, his personhood, and to his role in relationships. Clinical experiences are provided to introduce the student to teaching/learning relationships and to a sociological orientation of growth and the school in modern society. (Open to freshmen.)	(3)	10:00-11:30	D-101
HDL501-1	*Psychology of Exceptional Children* Instructor: W. Williams Assessing the exceptional child. Emphasis on current research in several diagnostic categories. (Also Psychology 501-1).	(3)	10:00-11:30	D-102
HDL502-1	*Adjustment Problems of the Disadvantaged* Instructor: Diamant A seminar concerned with such issues as racial attitudes, prejudice, and poverty. Assigned reading and discussion deal with the application of psychological principles to these problems. Contributing lecturers with professional experience with problems of the disadvantaged will participate. (Also Psychology 502-1.)	(3)	8:00- 9:30	D-102
HDL503-1	*Psychology of Mental Retardation* Instructor: W. Williams An intensive study of the psychological and sociological aspects of mental retardation in relation to adjustment and educational development. Emphasis on current research and diagnostic categories. (Also Psychology 503-1)	(3)	8:00- 9:30	C-217

Course No.	Title		Time	Room No.
HDL600-1	*Explorations in Human Potential*			
	A. The Person and School in Urban Society	(3)	8:00- 9:30	D-104
	Instructor: Smith			
	B. The Facilitation of Meaning	(3)		L-204
	Instructor: Etten			
	C. Children and Youth	(3)		C-118
	Instructor: Powers			
	A course designed to explore in depth the identification, development, and release of human potential. Emphasis will be given to techniques, relationships, and programs which develop potential. The course is organized to be taught by a team giving opportunities for students to study in depth areas of interest and need such as: A. The Person and School in Urban Society; B. The Facilitation of Meaning; and C. Children and Youth.			
HDL606-1	*Adjustment Problems: Children and Youth*	(3)	4:30- 6:00	D-101
	Instructor: Karras			
	A study of adjustment problems from childhood and adolescence in relation to theoretical postulates and to school problems. Special emphasis is given to problems of behavior and attitudes toward learning and relationships. (Also Psychology 606-1.)			
HDL608-1	*Learning and Development*	(3)	10:00-11:30	LA-208
	Instructor: Powers			
	Investigations in the historical and contemporary explanations of the learning phenomena particularly as they apply to the teacher/learner relationship. Emphasis is placed on the relationship between learning and other aspects of the process of growth and development.			
2. Meaning and Growth in Teaching/ Learning Relationships				
HDL320-1	*Early Childhood and Intermediate Education: Organization and Curriculum*	(3)	8:00- 9:30	C-205
	Instructor: Maxwell			
	A course designed to develop an understanding of the curriculum of the elementary school. Emphasis is placed on the role of the teacher in the design, organization and administration of the elementary school. Major consideration is given to approaches to instructional organization such as multi-age grouping and team teaching as they relate to the curriculum.			

Course No.	Title		Time	Room No.
HDL620-1	*Curriculum Theory*			
	A. Meaning and Growth	(3)	10:00-11:30	D-104
	Instructor: Chase			
	B. Creativity and Experiences	(3)		LA-210
	Instructor: Maxwell			
	C. Strategies and Design	(3)		C-205
	Instructor: Smith			
	A study of the determinants of curriculum as they relate to facilitation of the transition from theory to practice. The course is designed to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. Meaning and Growth; B. Creativity and Experiences; and C. Strategies and Design. Emphasis is placed on research and experimentation in the development of theory, processes, materials, and relationships in curriculum design.			
HDL625-1	*Concepts of Teaching and Learning*			
	B. Language Development and Reading	(3)	2:30- 4:00	D-101
	Instructor: Hackney			
	A course designed to provide the student with an opportunity to critically examine current trends and practices in particular areas of the curriculum.			
3. The Helping Relationship				
HDL660-1	*Behavioral Analysis of Administration*	(3)	12:30- 2:00	D-101
	Instructor: Hackney			
	An extensive study of the behavioral components of administrative, theory, organization, decision making, and planning for educational development. An appraisal of significant functions, techniques, practices and problems as they relate to the public school systems, to other social institutions, with the system of social and governmental entities.			
HDL663-1	*Developmental Approaches to the Theory and Practice of Guidance*	(3)	10:00-11:30	C-213
	Instructor: Burke			
	A study of guidance and counseling as developmental concept with emphasis upon the philosophical, social, and psychological bases for the helping relationships. Experiences are provided to facilitate the necessary competencies — self-analysis, value judgements, and the creation of relationships needed to facilitate the growth of others toward personhood.			

Course No.	Title		Time	Room No.
HDL665-1	*Analysis and Developing Approaches to the Helping Relationships* *C. Counseling* Instructor: Burke A course designed for the study of ways, means, and concepts of improving instruction, learning, and development through the helping relationship. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need.	(3)	12:30- 2:00	D-102
4. Experience and Commitment in Human Development and Learning				
HDL570-1	*Selected Topics in Human Development and Learning* Instructor: Staff Prerequisite: Education 201 and permission of the College. Topics and special problems chosen in relation to human learning, ideas, practices, significant movements, or detailed study of models for human learning. Seminars, independent study, and clinical experiences. (May be repeated for credit with approval.)	(3-6)	TBA	
HDL670-1	*Clinical Experiences in Analyzing Teacher/ Learner Behavior* *A. Early Childhood Education* Instructor: Rowland *B. Intermediate Education* Instructor: Dwyer *C. Secondary Education* Instructor: Pleasants A course designed to provide observational and teaching experiences as a member of a teaching team in: A. Early Childhood Education; B. Intermediate Education; and C. Secondary Education; and in other areas of teaching interests. The course is designed to be team taught so as to provide supervision, analysis, and planning by a specialist in various areas. Emphasis will be given to instructional change, program development, and to the development of unique teaching styles. These experiences are organized with children in model settings.	(6) (6) (6)	8:00-11:30 and TBA	LA-207 LA-206 A-203
HDL672-1	*Problems in Human Development and Learning* Instructor: Staff Prerequisite: Permission of College. Designed to permit students to conduct action	(3-6)	TBA	

research on selected problems, guided readings, research, and individual project work under the direction of a staff member. This course may be repeated for credit with the approval of the College of Human Development and Learning.

MANAGEMENT

Course No.	*Title*		*Time*	*Room No.*
MGT631-N	*Managerial Accounting (first half)* (M, W) Instructor: Drucker	(3)	6:00- 7:30	C-105
MGT 631-L01	*Managerial Accounting Lab (first half)* (W) Instructor: Drucker		7:30- 9:00	C-105

MATHEMATICS

101-1	*Basic Concepts of Mathematics* Instructor: Nabors	(3)	8:00- 9:30	D-108
101-2	*Basic Concepts of Mathematics* Instructor: Pyles	(3)	10:00-11:30	D-108
101-N	*Basic Concepts of Mathematics* Instructor: Porterfield Algebraic properties of the real number system; sets; relations, functions, graphing and solution of equations and inequalities; vectors and matrices; polynomial, exponential and logarithmic functions; introduction to computer programming.	(3)	6:00- 7:30	D-108
103-1	*Concepts of Mathematics* Instructor: Goodrum The real number system as a complete ordered field; concepts of sets, relations and functions; graphing and solution of equations inequalities; elements of mathematical logic; and introduction to mathematical structures. (Credit not given to students having credit for Mat 101.)	(3)	8:00- 9:30	D-105
143-1	*Differential Calculus I* Instructor: Roth	(3)	8:00- 9:30	D-106
143-N	*Differential Calculus I* Instructor: Porterfield Prerequisite: Mat 104 with a grade of *C* or better. Limits in R^n; functions of $R^n \rightarrow R^m$ functions: differential calculus of $R \rightarrow R^n$ functions; extreme values; concavity; curve sketching; velocity and acceleration; related rates.	(3)	7:40- 9:10	D-108

Course No.	*Title*		*Time*	*Room No.*
221-1	*Introduction to Probability* Instructor: Linder Prerequisite: Mat 101 or 103. An introduction to the mathematical theory of probability and statistics with applications.	(3)	1:00- 2:30	D-108
222-1	*Elements of Statistics* Instructor: Pyles	(3)	8:00- 9:30	A-106
222-2	*Elements of Statistics* Instructor: Roth	(3)	10:00-11:30	D-105
222-3	*Elements of Statistics* Instructor: Herr (Section 2 directed toward majors in the Social Sciences.) Prerequisite: Mat 101 or 103. An introduction to the principles of statistical measures and hypothesis testing. Mean, variance, standard deviation; confidence, intervals, binomial and normal distributions; contingency tables, chi-square test; non-parametric tests including the sign test and rank sum test, the t-test; linear regression, correlation and an introduction to analysis of variance and multiple regression. Assignments will involve the use of "canned" programs on the University computer.	(3)	12:30- 2:00	D-106
223-1	*General Linear Model in Regression Analysis* Instructor: Herr Prerequisites: Mat 104 and consent of the department. An introduction to the linear model as a foundation for least squares estimation, analysis of variance and regression analysis. (Especially appropriate for juniors and seniors pursuing an emphasis in computer science)	(3)	10:00-11:30	D-106
271-1	*Differential Equations* Instructor: Crippen Prerequisite: Mat 144 with a grade of *C* or better. An introduction to the study of differential equations; first order equations; general theory of ordinary linear differential equations; Laplace transforms.	(3)	8:00- 9:30	S-201
350-1	*Introductory Modern Algebra* Instructor: Hedstrom Prerequisite: Mat 104 and consent of the department. Introduction to abstract mathematical systems emphasizing the axiomatic approach to algebra structures through con-	(3)	8:00- 9:30	S-203

crete examples, the construction of proofs, and the development of familiar algebraic systems within an abstract framework. (Applicable toward requirements for Class "A" certificate, secondary teaching.)

Course No.	*Title*		*Time*	*Room No.*
350-2	*Introductory Geometry* Instructor: Linder Prerequisite: Mat 104 and consent of the department. A study of geometry from the modern viewpoint. (Applicable toward requirements for Class "A" certificate, secondary teaching.)	(3)	10:00-11:30	S-201
450-1	*Theory of Automata* Instructor: Thomas Prerequisite: consent of the department. Turing machines and equivalent motions. Finite transducers, acceptors and generators. A brief survey of elementary recussive function theory, and of some peripheral topics, such as formal models of biological systems, generative grammars and context free languages. Discussion of some applications to switching theory, programming languages and hardware design. (The course will begin with a review of the relevant topics in logic, algebra, set theory, and formal arithmetic.)	(3)	10:00-11:30	S-203
CSC100-1	*Algorithmic Languages I* Instructor: Nabors	(3)	10:00-12:00	S-229
CSC100-2	*Algorithmic Languages I* Instructor: Goodrum Prerequisite: Mathematics 101 or 103. An introduction to digital computing techniques through the study of Fortran IV. Various numerical and nonnumerical algorithms will be studied, flow-charted, programmed and documented. Concepts such as computer hardware, computer application areas, etc., will be introduced when appropriate.	(3)	12:30- 2:30	S-229
MUSIC				
051L-10	*Piano* Instructor: Turner		TBA	R-274
051P-5	*Voice* Instructor: Dailey		TBA	R-258
207-1	*Introduction to Music Literature* Instructor: Turner The development of resources for the aural exploration of music through emphasis on	(3)	12:30- 2:00	R-125

stylistic characteristics and the evolution of musical forms, and the interrelationship of music with other cultural influences.

Course No.	*Title*		*Time*	*Room No.*
307-1	*Music for Elementary School Teachers* Instructor: Dailey Prerequisite or corequisite: Education 303. Methods and materials of instruction which the teacher can apply in a music program in the elementary school.	(3)	10:00-11:30	R-134

NURSING

102-1	*Ecology of Man* Instructor: Brocker The focus of this course is directed toward understanding the relationship of the ill person to his family and community. Major health problems and facilities provided by society for meeting health needs will be included in the content.	(3)	1:00- 2:30	A-106
201-1	*Fundamentals of Nursing I* Instructor: Caddell Prerequisite or corequisite: Nursing 102. Study of the basic concepts and principles essential for the nursing care of adults and children. Emphasis is placed on the correlation of principles of nursing with concepts of behavioral and natural sciences. One hour lecture and three hours of laboratory work each day. (Laboratory sessions are held in Charlotte Memorial Hospital. Students will wear their nurse uniform.)	(4)	7:30- 2:00	Gym-227

PHILOSOPHY

201-1	*Introduction to Philosophy* Instructor: Corkey	(3)	10:00-11:30	C-216
201-2	*Introduction to Philosophy* Instructor: Staff An introduction to some of the basic concepts and problems of philosophy.	(3)	8:00- 9:30	C-216

PHYSICAL EDUCATION

110-1	*Beginning Swimming* Instructor: Staff Designed to teach weak or non-swimmers a basic stroke and safe entry into and exit from the water.	(1)	10:00-11:30	Pool

Course No.	Title		Time	Room No.
111-1	*Intermediate Swimming* Instructor: Staff Prerequisite: PED 110 or permission of instructor. Emphasis on gaining competence in at least four basic strokes and two dives.	(1)	12:30- 2:00	Pool
120-1	*Beginning Tennis* Instructor: Avant The rules, history, basic skills and basic strategy.	(1)	8:00- 9:30	Gym-222 Courts
121-1	*Beginning Badminton* Instructor: Bostian The rules, history, basic skills and basic strategy.	(1)	11:30- 1:00	Gym-222 Courts
140-1	*Beginning Golf* Instructor: Avant The grip, stance, stroke, use and selection of clubs, history, rules, and etiquette.	(1)	10:00-11:30	Gym-222
409-1	*Physical Education Laboratory* Instructor: Staff Prerequisite: PED 101 and Education 303. Physical education instruction, principles of physical education teaching for the elementary grades.	(3)	12:30- 2:00	Gym-231
PHYSICS				
101-1	*Introductory Physics I* Instructor: Mayes	(4)	12:30- 2:00	S-306
101-L01	*Laboratory (TWTh)* Instructor: Mayes Prerequisite or corequisite: Mathematics 101 or Mathematics 103. Introduction to the fundamental principles of natural phenomena. Topics will be selected from traditional classical subjects (e.g., Newtonian mechanics, electromagnetism) and more recent developments in order to illustrate the logical structure of modern science.		2:10- 5:00	K-113
221-N	*Particle Dynamics* Instructor: Oberhofer Prerequisites: Mathematics 143 and 144. Kinematics and dynamics of particles; momentum, work, and energy; conservation laws; mechanics of rigid bodies.	(3)	6:00- 7:30	S-306
222-1	*Waves and Thermal Physics* Instructor: Oberhofer Prerequisites: Physics 221 or EM 211; Math 143 and 144. Fluid mechanics and elastic	(3)	2:10- 3:40	S-306

properties of matter; oscillations and waves in elastic media; sound; heat and an introduction to thermodynamics and the kinetic theory of gases.

Course No.	*Title*		*Time*	*Room No.*
POLITICAL SCIENCE				
201-1	*Introduction to American Politics* Instructor: McCoy Role of the President, Congress, Supreme Court, and national administrative agencies in the American political system. Relationship between the American people and their political institutions with emphasis upon political culture, the electoral process, interest groups, political communication, and the international commitments of the United States.	(3)	8:00- 9:30	D-103
203-1	*Introduction to International Politics* Instructor: Jamgotch Analysis of politics among nations; material and psychological sources of national power, the role of law, force, and diplomacy in world politics, problems of peace and disarmament, and international organizations.	(3)	10:00-11:30	D-103
*302-1	*Political Parties and Interest Groups* Instructor: McCoy Analysis of the role played by political parties and interest groups in the American political system	(3)	10:00-11:30	LA-205
*345-1	*Government and Politics of the Soviet Union* Instructor: Jamgotch The origins of Bolshevism and the substance and role of Marxist-Leninist ideology. The structure and functions of the Communist Party of the Soviet Union (CPSU). The principles of Soviet politics and the instruments of rule. The Soviet political system in transition and its relationship to world communism.	(3)	12:30- 2:00	D-103
*450-1	*The Robert A. Taft Institute of Government Seminar* Instructor: Lyons Open under special arrangement. See "Seminars, Institutes, Workshops," page 12.	(3)		

Open to graduates and undergraduates

PSYCHOLOGY

Course No.	*Title*		*Time*	*Room No.*
201-1	*General Psychology* Instructor: Grimsley	(4)	10:00-11:30	S-102
201-L1	*General Psychology Laboratory (MW)* Instructor: Talbutt		1:10- 4:00	S-103
201-L2	*General Psychology Laboratory (TTh)* Instructor: Talbutt Survey of general psychology as a behavioral science.		1:10- 4:00	S-103
202-1	*Educational Psychology* Instructor: Lamal	(3)	10:00-11:30	S-204
202-2	*Educational Psychology* Instructor: Lamal The psychology of learning; problems related to the instructional processes. Suggested prerequisite: Psychology 201.	(3)	12:30- 2:00	S-204
351-1	*Physiological Psychology* Instructor: Grimsley The relationship of the physiological systems to integrated behavior. Emphasis on neural aspects of behavior and current studies in reactions to drugs and other stimuli. Prerequisite: Psychology 201.	(3)	12:30- 2:00	S-301
491-1	*Seminar in Human Behavior and Adaptation* Instructor: Diamant Admission by consent of department. Intensive reading and discussion in selected areas. Issues of current importance; social scientific and philosophical implications.	(3)	10:00-11:30	S-218
501-1	*Exceptional Children* Instructor: W. Williams Assessing the exceptional child. Emphasis on current research in several diagnostic categories. Prerequisite: Psychology 201 and 301. (Also HDL501-1)	(3)	10:00-11:30	D-102
502-1	*Adjustment Problems of the Disadvantaged* Instructor: Diamant A seminar concerned with such issues as racial attitudes, prejudice, and poverty. Assigned reading and discussion deal with the application of psychological principles to these problems. Contributing lecturers with professional experience with problems of the disadvantaged will participate. (Also HDL502-1)	(3)	8:00- 9:30	D-102

Course No.	*Title*	*Time*	*Room No.*
503-1	*Psychology of Mental Retardation* (3) Instructor: W. Williams An intensive study of the psychological and sociological aspects of mental retardation in relation to adjustment and educational development. Emphasis on current research and diagnostic categories. (Also HDL503-1)	8:00- 9:30	C-217
606-1	*Adjustment Problems, Children and Youth* (3) Instructor: Karras A study of adjustment problems from childhood and adolescence in relation to theoretical postulates and to school problems. Special emphasis is given to problems of behavior and attitudes toward learning and relationships. (Also HDL 606-1)	4:30- 6:00	D-101
RELIGION			
201-1	*Survey of Old Testament* (3) Instructor: St. Clair An introduction to the literature of the Old Testament in light of its literary and historical background.	10:00-11:30	C-109
203-1	*Comparative Religions* (3) Instructor: St. Clair A survey of man's religious consciousness from the earliest intimations of its awakening to the development of the world's living religions today.	8:00- 9:30	C-215
RUSSIAN			
101-1	*Elementary Russian* (4) Instructor: Slechta	8:00- 9:30	LA-201
101-L1	*Elementary Russian Laboratory* Fundamentals of Russian grammar and phonetics, reading, and conversation. Ninety minutes of class and fifty minutes of laboratory work per day. No college credit given if student has received credit for same language to satisfy entrance requirements.	10:00-11:00	LA-106
SOCIOLOGY			
201-1	*General Sociology* (3) Instructor: Wilson Survey of the field of sociology designed to acquaint the student with fundamental sociological concepts and principles. (Credit is	8:00- 9:30	A-205

not given to students who have completed Sociology 151, 152, or their equivalents.)

Course No.	*Title*		*Time*	*Room No.*
203-1	*Cultural Anthropology* Instructor: Lance Introduction to the origins and development of cultures, their structures and functioning in primitive and the simpler modern societies, methods of cultural analysis, and theories of culture.	(3)	8:00- 9:30	C-213
271-1	*Social Problems* Instructor: Watson Prerequisite: Soc. 151-152 or 201. Analysis of contemporary social problems and their consequences for mankind, with special emphasis upon the problems of American society.	(3)	10:00-11:30	C-215
310-1	*American Minority Groups* Instructor: Watson Prerequisite: Soc. 151-152 or 201. Analysis of the relations between dominant minority groups in American society with special emphasis on the establishment, maintenance, and decline of dominance involving racial, ethnic, and religious minorities.	(3)	12:30- 2:00	A-209
322-1	*Population Analysis* Instructor: Lance Prerequisite: Soc. 151-152 or 201. Analysis of patterns of human behavior and ideologies which influence the number, distribution, and composition of population and the effect of population characteristics and changes upon society.	(3)	10:00-11:30	C-217
*490-1	*Topics in Sociology: The Family* Instructor: Roberts Prerequisite: consent of the department. Seminar on the family.	(3)	10:00-11:30	LA-204
SPANISH				
101-1	*Elementary Spanish* Instructor: Law	(4)	8:00- 9:30	LA-208
101-L1	*Elementary Spanish Laboratory* Introduction to Spanish with emphasis on auditory comprehension, oral production and control of structure. Ninety minutes of class and fifty minutes of laboratory per day. (No		10:00-11:00	LA-106

Open to graduates and undergraduates

college credit given if student has received credit for same language to satisfy entrance requirements.)

Course No.	*Title*		*Time*	*Room No.*
201-1	*Intermediate Spanish* Instructor: Hopper	(4)	12:30- 2:00	LA-208
201-L1	*Intermediate Spanish Laboratory* Prerequisite: Spanish 102 or permission of department. Reinforcement and expansion of skill mastery developed in elementary courses on basis of selected readings and analysis of structure. Ninety minutes of class and fifty minutes of laboratory per day.		10:00-11:00	LA-106
492-1	*Selected Readings in Spanish (Don Quijote)* Instructor: Hopper Prerequisite: Two 300 level courses or permission of department. Consideration in depth of a predetermined author or literary movement. Course conducted in Spanish.	(3)	3:00- 4:30	LA-208

SPEECH AND THEATER

101-1	*Fundamentals of Speech* Instructor: Rackley	(3)	8:00- 9:30	R-115
101-2	*Selected Readings in Spanish* Instructor: Rackley Training in voice and diction to develop effective delivery. The composition and presentation of speeches.	(3)	10:00-11:30	R-115

Schedule of Courses For Second Term
July 15 - August 19

ART

Course No.	*Title*		*Time*	*Room No.*
201-1	*Art Appreciation* Instructor: Anderson An introduction to art history and appreciation covering basic concepts, aesthetic aims, and social influences which characterize and differentiate one civilization or period from another.	(3)	10:00-11:30	R-101
302-1	*Art for Elementary Teachers (MTWTh)* Instructor: Anderson Prerequisite or corequisite: Education 303. A study of materials and techniques which the teacher may use in art activities in the school.	(3)	2:10- 5:00	R-101

BIOLOGY

203-1	*Bacteriology* Instructor: Darner Prerequisite: one semester of biology. No credit toward a biology major. Basic physiology of bacteria and viruses, with emphasis on the pathogens and the epidemeology of microbial diseases.	(3)	12:30- 2:00	K-107
203-A	*Bacteriology Laboratory (TWTh)* Instructor: Darner	(1)	2:10- 5:00	K-215
211-1	*Plant Biology* Instructor: Matthews	(4)	12:30- 2:00	K-207
211-L01	*Laboratory (TWTh)* Instructor: Matthews Prerequisite: Open to majors and nonmajors; Biology 101 prerequisite for nonmajors. The morphology, function, reproduction, phylogeny, and ecology of plants.		2:10- 5:00	K-201
231-1	*Cell Biology* Instructor: Haviland	(4)	12:30- 2:00	C-102
231-L01	*Laboratory (TWTh)* Instructor: Haviland Prerequisite: Two semesters of chemistry. Structural, functional, and genetic aspects of cells; principles underlying living systems. Three lecture hours and one laboratory period of three hours a week.		2:10- 5:00	K-220

Course No.	*Title*		*Time*	*Room No.*
363-1	*Field Biology* Instructor: Hechenbleikner	(4)	12:30- 2:00	K-120
363-L01	*Laboratory (TWTh)* Instructor: Hechenbleikner Prerequisite: open to students in secondary education and to others with consent of Department. Roles of soils, water and climate on plant growth and distribution, plant succession and its effect on animal distribution; and identification and life histories of selected plants and animals.		2:10- 5:00	K-214
497	*Investigations in Biology* May be repeated for credit. Prerequisite: permission of department. A course designed to allow the senior biology major to initiate a research project in his field of interest.	(1-4)	TBA	

BUSINESS ADMINISTRATION

BAD 202-1	*Principles of Accounting II* Instructor: Whisnant	(3)	10:00-11:30	C-102
BAD 202-2	*Principles of Accounting II* Instructor: Reed	(3)	8:00- 9:30	C-102
BAD 202-L01	*Laboratory (M)* Instructor: Whisnant		2:30- 4:30	C-102
BAD 202-L02	*Laboratory (T)* Instructor: Reed Prerequisite: BAD 201. A study of basic accounting theory; corporate financing, and reporting; financial planning; and an introduction to cost accounting.		2:30- 4:30	C-102
BAD 311-1	*Marketing* Instructor: Palmer	(3)	10:00-11:30	C-103
BAD 311-2	*Marketing* Instructor: Horton Prerequisite: Economics 202. Analysis of the activities which direct the flow of goods and services from producers to consumers in modern economic systems; focuses on development of the student's ability to perceive and evaluate marketing problems and policies.	(3)	8:00- 9:30	C-103
BAD 316-1	*Financial Management* Instructor: Reed	(3)	10:00-11:30	C-106

Course No.	Title		Time	Room No.
BAD 316-2	*Financial Management* Instructor: Staff Prerequisite: BAD 202. Principles and problems of business financing. Particular emphasis on financial planning and control.	(3)	8:00- 9:30	C-106
BAD 371-1	*Cost Accounting* Instructor: Hockfield	(3)	8:00- 9:30	C-105
BAD 371-L01	*Laboratory (M)* Instructor: Hockfield Prerequisite: BAD 202. A study of cost determination and control. Includes procedures for job order, process and standard systems, and management uses of cost data.		2:30- 4:30	C-106
BAD 375-1	*Intermediate Accounting II* Instructor: Drucker	(3)	10:00-11:30	C-105
BAD 375-L01	*Laboratory (M)* Instructor: Drucker Prerequisite: BAD 374. A continuation of BAD 374 with an emphasis on accounting problems peculiar to corporate and partnership organizations and governmental units.		2:30- 4:30	C-105
BAD 380-1	*Business Law* Instructor: Hockfield A study of the legal environment within which business operates, topics include contracts, sales, negotiable instruments, agency, partnerships, and corporations.	(3)	10:00-11:30	C-118
BAD 400-1	*Industrial Management* Instructor: Horton Prerequisites: Economics 202 and BAD 202. The principles underlying the solution of problems in organization and operation of industrial enterprises. Emphasis placed on the management functions of planning, organizing, actuating, and controlling business activity.	(3)	10:00-11:30	C-205
CHEMISTRY				
102-1	*Principles of Chemistry* Instructor: Staff	(4)	12:30- 2:00	C-109
102-L01	*Laboratory (TWTh)* Instructor: Staff		2:10- 5:00	K-320
102-L02	*Laboratory (TWTh)* Instructor: Staff Prerequisite: Chemistry 101. Continuation of Chemistry 101 including qualitative analysis.		2:10- 5:00	K-309

Course No.	Title		Time	Room No.
204-1	*Organic Chemistry* Instructor: Staff	(4)	12:30- 2:00	C-103
204-L01	*Laboratory (TWTh)* Instructor: Staff		2:10- 5:00	K-310
204-L02	*Laboratory (TWTh)* Instructor: Staff		2:10- 5:00	K-310
ECONOMICS				
202-1	*Principles of Economics-Micro* Instructor: Trosch	(3)	8:00- 9:30	A-107
202-2	*Principles of Economics-Micro* Instructor: Staff Prerequisite: Economics 201. The second semester of a one-year introductory course in economics. Topics include the operation of the pricing mechanism of a market economy, the industrial organization of our contemporary capitalistic economy, problems of economics concentration and of agriculture, the theory of income distribution, international economics relationships, and comparative economics systems.	(3)	10:00-11:30	A-107
324-1	*Managerial Economics* Instructor: Whisnant Prerequisites: Eco 202, BAD 202, and Mat 222. A consideration of economic problems of particular importance to business firms, with a view to using tools of economic analysis in managerial decision making.	(3)	8:00- 9:30	A-109
480-1	*Government and Business* Instructor: Trosch Prerequisite: Eco 202. A historical development of government regulation of business, utilizing the case study approach to develop an understanding of current philosophies and problems in this area.	(3)	10:00-11:30	A-109
ENGINEERING				
EGR 102-1	*Introduction to Engineering Problems II* Instructor: Norem Prerequisite: EGR 101. A continuation of EGR 101. Further topics in computer programming; charts, graphs, and experimental curve fitting; development of drafting skills and techniques. Introduction to the engineering approach to problem solving.	(2)	8:00- 9:30	S-227
EGR 252-1	*Basic Engineering Laboratory II (MWF)* Instructor: Smith Prerequisite: EGR 251. Prerequisite or corequisite: Math 271. Continuation of EGR	(1)	2:00- 5:00	S-228

251, emphasizing use of digital and analog computer techniques.

Course No.	*Title*		*Time*	*Room No.*
EE 212-1	*Linear Networks II*	(3)	10:00-11:30	S-227

Instructor: Barnette

Prerequisite: EE 211. Prerequisite or corequisite: Math 271. Formulation of network equations and the investigation of the transient and steady state solution of these equations with step, pulse and sinusoidal driving functions using classical methods. The vector transform as an introduction to sinusoidal steady state. Sinusoidal steady state and frequency response of networks.

EM 212-1	*Engineering Mechanics II*	(3)	12:30- 2:00	S-227

Instructor: Crippen

Prerequisite: EM 211. Prerequisite or corequisite: Math 271. The dynamics of systems of particles: impulse and momentum of a system of particles, moment of momentum, work and kinetic energy of a system of particles. Moments and products of inertia: principal moments of inertia and principal axes. The dynamics of rigid bodies: Euler's equations, work and energy equations of a rigid body, plane motion of a rigid body. Single-degree-of-freedom vibrations.

EM 311-1	*Strength and Properties of Materials*	(3)	10:00-11:30	S-228

Instructor: Bayer

Prerequisite: EM 211. Fundamentals of strength of materials and the mechanical behavior of materials. Concepts of stress and strain in elastic and plastic materials. Shear stress, normal stresses, and deflections of beams and trusses. Torsion. Combined stress and analysis of plane stress. Theories of failure under combined stress. Dynamic and temperature effects upon mechanical properties; fatigue, creep, and impact behavior.

ME 312-1	*Thermodynamics II*	(3)	8:00- 9:30	S-228

Instructor: Kim

Prerequisite: ME 311. General thermodynamic relations; equations of state and generalized charts. Combustion, dissociation, and chemical equilibrium. Introduction to statistical thermodynamics.

Course No.	*Title*		*Time*	*Room No.*
EE 422-1	*Radiation and Microwave Theory* Instructor: Coleman Prerequisite: EE 421. A study of radiation into free space; antenna theory. Microwave theory: components and junctions, methods of feeding, matching, terminations and generation. Microwave amplifiers and oscillators. Introduction to Laser theory.	(3)	10:00-11:30	S-303

ENGINEERING TECHNOLOGY

ET 371-1	*Engineering Analysis I* Instructor: Elliott Prerequisite: ET 370; differential and integral calculus. Methods of solving engineering problems which involve the differentiation and integration of algebraic, trigonometric and logarithmic functions; use of integral tables.	(3)	8:00- 9:30	S-349

ENGLISH

102-1	*English Composition* Instructor: Jones	(3)	8:00- 9:30	A-205
102-2	*English Composition* Instructor: Boger Critical writing, collateral reading, and introduction to literary study.	(3)	12:30- 2:00	A-207
202-1	*English Literature* Instructor: Gatlin	(3)	8:00- 9:30	A-206
202-2	*English Literature* Instructor: Boger Prerequisite: English 101 and 102. British literary masterpieces since 1700.	(3)	10:00-11:30	A-207
203-1	*Masterpieces of Modern Fiction* Instructor: McCall Prerequisite: English 101 and 102. Readings in selected novels and short stories written since 1850. Does not count toward an English major.	(3)	12:30- 2:00	A-204
204-1	*Major American Writers* Instructor: Hedges Prerequisite: English 101 and 102. Extensive readings in six to eight authors. Recommended for non-English majors who are working for teacher certification. Does not count toward an English major.	(3)	10:00-11:30	A-204

Course No.	Title		Time	Room No.
*311-1	*Chaucer* Instructor: Jones *The Canterbury Tales, Troilus and Criseyde,* and selected minor works	(3)	10:00-11:30	A-206
312-1	*Shakespeare* Instructor: Carver Twelve of his major plays from the comedies, tragedies, and histories.	(3)	8:00- 9:30	A-204
326-1	*The Victorian Era, 1832-1900* Instructor: Gatlin Emphasis on Tennyson, Robert Browning, Arnold, Carlyle, Ruskin, and Newman.	(3)	12:30- 2:00	A-206
625-1	*The Romantic Era, 1785-1832* Instructor: McCall The development of the Romantic movement with emphasis on the works of Wordsworth, Coleridge, and other major poets.	(3)	10:00-11:30	A-205
662-1	*Advanced Rhetoric* Instructor: Hedges Prerequisite: English 461 or permission of instructor. The fundamental principles of classical rhetoric and an intense examination of the governing principles of the "new" or descriptive rhetoric.	(3)	12:30- 2:00	A-205
FRENCH				
102-1	*Elementary French* Instructor: Rose	(4)	12:30- 2:00	LA-203
102-L1	*Elementary French Laboratory* Prerequisite: French 101 or permission of department. Continuation of French 101. Ninety minutes of class and fifty minutes of laboratory work per day. (No college credit given if student has received credit for same language to satisfy entrance requirements.)		10:00-11:00	LA-106
202-1	*Intermediate French* Instructor: Rose	(4)	8:00- 9:30	LA-203
202-L1	*Intermediate French Laboratory* Prerequisite: French 201 or permission of department. Review grammar, composition, and conversation, based upon readings in French prose. Ninety minutes of class and fifty minutes of laboratory per day.		10:00-11:00	LA-106

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Course No.	*Title*		*Time*	*Room No.*
302-1	*Advanced French Grammar, Composition, and Conversation II*	(3)	3:00- 4:00	LA-203
	Instructor: Saman Prerequisite: Fr 202, or permission of the department. Informal conversation on diversified prepared topics, newspaper and magazine articles. Students will be given maximum opportunity for self-expression. Book reports on collateral readings.			
302-L1	*Advanced French Grammar, Composition, and Conversation II Lab*		2:00- 3:00	LA-106
GEOGRAPHY				
102-1	*World Regional Geography*	(3)	10:00-11:30	S-217
	Instructor: Orr A world regional study which emphasizes the distinctly human responses of man to various geographic situations throughout the world. The nature and development of cultural regions will be studied.			
305-1	*Geography of Europe*	(3)	8:00- 9:30	S-217
	Instructor: Orr A regional study of geographic conditions and their relationship to economic, social and political problems of Europe.			
312-1	*Urban Geography*	(3)	12:30- 2:00	S-218
	Instructor: Stuart A study of the distribution, internal structure and functions of various types of urban developments.			
313-1	*Manufacturing Geography*	(3)	10:00-11:30	S-218
	Instructor: Stuart A study of factors relating to the nature, locations, and development of manufacturing industries. Emphasis upon location theory, classification of manufactures, principal areas of manufacturing and other phases of economic geography.			
GEOLOGY				
102-1	*Earth Science Geology*	(4)	12:30- 2:00	S-204
	Instructor: Alker			
102-L1	*Earth Science Geology Lab*	*(MW)*	2:00 - 5:00	S-248
	Instructor: Alker			
102-L2	*Earth Science Geology Lab*	*(TTh)*	2:00 - 5:00	S-248
	Instructor: Staff A study of the basic geological principles and processes in earth science: the earth as			

a planet; treatment of physical processes shaping the earth; earth materials and landforms. One and one-half lecture hours per day and one laboratory period of three hours a week.

GERMAN

Course No.	*Title*		*Time*	*Room No.*
102-1	*Elementary German* Instructor: Merrill	(4)	8:00- 9:30	LA-205
102-L1	*Elementary German Laboratory* Prerequisite: German 101 or permission of department. Continuation of German 101. Ninety minutes of class and fifty minutes of laboratory work per day.		10:00-11:00	LA-106
202-1	*Intermediate German* Instructor: Merrill	(4)	12:30- 2:00	LA-205
202-L1	*Intermediate German Laboratory* Prerequisite: German 201 or permission of department. Review grammar, composition, and conversation, based upon readings in German prose. Ninety minutes of class and fifty minutes of laboratory work per day.		10:00-11:00	LA-106

HISTORY

102-1	*Modern Western Civilization from 1815 to present* Instructor: Dunkley Prerequisite: History 101. Continuation of History 101 with greater emphasis on developments outside the Atlantic community of Western civilization.	(3)	8:00- 9:30	C-117
202-1	*American History, 1865 to present* Instructor: Hall Survey of American history from 1865 to present.	(3)	10:00-11:30	C-114
304-1	*History of Rome* Instructor: Ploger From the beginning of civilization in Italy to the reign of Justinian and the decline of the Empire in the West.	(3)	12:30- 2:00	C-117
*339-1	*History of North Carolina* Instructor: Perzel Prerequisite: History 201 and consent of department. Emphasis on the colonial develop-	(3)	12:30- 2:00	C-114

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ments and on the constitutional, educational, and transportation developments of the ante-bellum period.

Course No.	*Title*		*Time*	*Room No.*
*402-1	*French Revolution and Napoleon* Instructor: Rieke The changes in French politics and society and their effect on the Western world, 1789-1815.	(3)	10:00-11:30	C-117
*433-1	*American Social and Intellectural History to 1860* Instructor: Hall Prerequisite: History 201. Development of American social institutions and thought from the beginnings to the Civil War. The course is conducted as a colloquium, combining lectures, discussions, extensive reading, and oral reports and a research paper by each student.	(3)	8:00- 9:30	C-101
*492-N	*Great Women in History* Instructor: Ploger	(3)	6:00- 7:30	C-101
650-1	*Liberalism and Conservatism in the 19th Century* Instructor: Rieke	(3)	10:00-11:30	C-101
694-1	*Readings in History* Instructor: Perzel Coverage of historical periods or topics through an individually designed reading program; scheduled conferences with staff member.	(3)	2:30- 4:00	C-101

HUMAN DEVELOPMENT AND LEARNING (EDUCATION)

1. Explorations in Human Potential

HDL201-1	*Introductory Explorations in Human Potential* Instructor: Staff An introductory course in the philosophical foundation of the educative process designed to explore the nature of man, and human potential in relation to one's system of beliefs, values, and relationships. Emphasis is given to the analysis and development of the student's beliefs, his personhood, and to his role in relationships. Clinical experiences are provided to introduce the student	(3)	8:00- 9:30	D-101

*Open to graduates and undergraduates

to teaching/learning relationships and to a sociological orientation of growth and the school in modern society. (Open to freshmen.)

Course No.	*Title*		*Time*	*Room No.*
HDL501-1	*Psychology of the Exceptional Child* Instructor: W. Williams Assessing the exceptional child. Emphasis on current research in several diagnostic categories. (Also Psychology 501.)	(3)	10:00-11:30	D-101
HDL503-1	*Psychology of Mental Retardation* Instructor: W. Williams An intensive study of psychological and sociological aspects of mental retardation in relation to adjustment and educational development. Emphasis on current research and diagnostic categories. (Also Psychology 503-1)	(3)	8:00- 9:30	D-102
HDL540-1	*Tests and Measurements* Instructor: Staff A survey of psychological and educational measurements in current use. Emphasis will be placed on structure, administration, and application of group and individual tests. (Also Psychology 540-1)	(3)	4:30- 6:00	D-101
MANAGEMENT				
MGT 631-N	*Managerial Accounting (second half)* Instructor: Drucker	(3)	6:00- 7:30	C-105
MGT 631-L1	*Managerial Accounting Lab (second half) (W)* Instructor: Drucker		7:30- 9:00	C-105
MATHEMATICS				
120-1	*Calculus* Instructor: Pyles	(3)	8:00- 9:30	D-103
120-2	*Calculus* Instructor: Johnson	(3)	10:00-11:30	D-102
120-N	*Calculus* Instructor: Staff Prerequisite: Mathematics 101 or 103. A brief treatment of basic concepts of differential and integral calculus with applications to business and to the social and life sciences; an introduction to the elements of probability. Sample spaces, events, probability of an event, conditional probability, independent events.	(3)	6:00- 7:30	D-102

Course No.	Title		Time	Room No.
104-1	*Linear Geometry* Instructor: Porterfield Prerequisite or corequisite: Mathematics 103. Algebra and geometry of vectors, a vector approach to trigonometry, vector descriptions of lines and planes; matrix representation of linear transformations; range and kernel of a linear transformation.	(3)	8:00- 9:30	D-108
144-1	*Integral Calculus I* Instructor: Crippen	(3)	8:00- 9:30	D-105
144-N	*Integral Calculus I* Instructor: King Prerequisite: Mathematics 143 with a grade of *C* or better. The Riemann integral of R→R functions; primitives and anti-derivatives; methods of integration; special functions; the integral of R→R^n functions; arc length; volumes and surfaces of revolution; work; total force.	(3)	7:40- 9:10	D-102
222-1	*Elements of Statistics* Instructor: Pyles	(3)	10:00-11:30	D-103
222-N	*Elements of Statistics* Instructor: Staff Prerequisite: Mathematics 101 or Mathematics 103. An introduction to the principles of statistical measures and hypothesis testing. Mean, variance, standard deviation; confidence intervals; binomial and normal distributions; contingency tables, chi-square test; nonparametric tests including the sign test and rank sum test, the t-test; linear regression, correlation and an introduction to analysis of variance and multiple regression. Assignments will involve the use of "canned" programs on the University computer.	(3)	7:40- 9:10	D-103
237-1	*Introduction to Algorithmic Processes* Instructor: Basavappa Prerequisite: Mathematics 101 or 103 with a grade of *C* or better. A study of sets, logic, Boolean algebras, Boolean functions, algorithms and computing machines. Particular attention is given to minimization of Boolean functions, to Markov algorithms and to Turing machines.	(3)	10:00-11:30	D-108
244-1	*Integral Calculus II* Instructor: Porterfield Prerequisite: Mathematics 144 with a grade of *C* or better. Multiple integration; iter-	(3)	10:00-11:30	D-105

ated integrals, series, improper integrals, Stoke's theorem.

Course No.	*Title*	*Time*	*Room No.*
350-1	*Algebraic Theory of Sequential Machines* (3) Instructor: Basavappa Prerequsite: Consent of the department. Use of groups and semi-groups in the study of sequential machines.	1:00- 2:30	D-103
450-1	*Approximation Theory* (3) Instructor: Lucas Prerequisite: Mat 243, 244, 346. A study of various methods of functional approximation. Includes topics such as interpolation, remainder theory, uniform approximations, best approximations and least squares approximation.	3:00- 4:30	D-103
CSC100-1	*Algorithmic Languages I* (3) Instructor: Evett Prerequisite: Mathematics 101 or 103. An introduction to digital computing techrithms through the study of Fortran IV. Various numerical and nonnumerical algorithms will be studied, flow-charted, programmed and documented. Concepts such as computer hardware, computer application areas, etc., will be introduced when appropriate.	12:30- 2:30	S-229
CSC201-1	*Computers and Programming* (3) Instructor: N. Niccolai Prerequisite: Computer Science 100. Computer structure; symbolic coding, and assembly systems; macros; program segmentation and linkage; and an introduction to operating systems.	8:00- 9:30	S-229
CSC343-1	*Systems Programming* (3) Instructor: N. Niccolai Prerequisite: CSC 201. Batch systems programs, components, operating characteristics; parallel processing of input-output and interrupt handling; structure of multiprogramming systems; addressing techniques, core management, file system design, etc.	10:00-11:30	S-229
MUSIC			
051L-7	*Piano* Instructor: Booth	TBA	R-282
208-1	*Introduction to Music Literature* (3) Instructor: Booth The development of resources for the aural exploration of music through emphasis on	10:00-11:30	R-125

stylistic characteristics and the evolution of musical forms, and the interrelationship of music with other cultural influences.

Course No.	*Title*		*Time*	*Room No.*
307-1	*Music for Elementary School Teachers* Instructor: Mathis Prerequisite or corequisite: Education 303. Methods and materials of instruction which the teacher can apply in a music program in the elementary school.	(3)	10:00-11:30	R-134

NURSING

202-1	*Fundamentals of Nursing II* Instructor: R. Mauldin A continuation of Nursing 201. One hour lecture and three hours of laboratory work each day. (Laboratory sessions are held in Charlotte Memorial Hospital. Students will wear their nurse uniform.)	(4)	7:30- 2:00	S-227

PHILOSOPHY

201-1	*Introduction to Philosophy* Instructor: Shumaker An introduction to some of the basic concepts and problems of philosophy.	(3)	8:00- 9:30	C-216

PHYSICAL EDUCATION

101-1	*Foundations of Physical Activity* Instructor: Staff The application of various physical training programs designed to improve and maintain physical fitness. 1/6 of the meetings will be devoted to lectures on physiological and psychological aspects of physical training.	(1)	2:00- 3:30	Gym-227
111-1	*Intermediate Swimming* Instructor: Staff Prerequisite: PED 110 or permission of instructor. Emphasis on gaining competency in at least four basic strokes and two dives.	(1)	10:00-11:30	Pool
120-1	*Beginning Tennis* Instructor: Staff The rules, history, basic skills and basic strategy.	(1)	1:00- 2:30	Gym-222 Courts
121-1	*Beginning Badminton* Instructor: Staff The rules, history, basic skills and basic strategy.	(1)	11:30- 1:00	Gym-231 Courts

Course No.	*Title*		*Time*	*Room No.*
140-1	*Beginning Golf* Instructor: Staff The grip, stance, stroke, use and selection of clubs, history, rules, and etiquette.	(1)	10:00-11:30	Gym-222
PHYSICS				
102-1	*Introductory Physics II* Instructor: Oberhofer	(4)	12:30- 2:00	S-306
102-L01	*Introductory Physics II Lab (TWTh)* Instructor: Staff Prerequisite: Physics 101. A continuation of Physics 101.		2:10- 5:00	K-113
231-N	*Electricity and Magnetism* Instructor: Vermillion Prerequisites: Physics 221 or 222; Math 244. Electric and magnetic fields in free space and in matter; electrostatic potential and capacitance; elementary circuit theory; electromagnetic induction and inductance; introduction to Maxwell's equations.	(3)	6:00- 7:30	S-306
POLITICAL SCIENCE				
201-1	*Introduction to American Politics* Instructor: Brenner	(3)	8:00- 9:30	D-106
201-2	*Introduction to American Politics* Instructor: Fleitas Role of the President, Congress, Supreme Court, and national administrative agencies in the American political system. Relationship between the American people and their political institutions with emphasis upon political culture, the electoral process, interest groups, political communication, and the international commitments of the United States.	(3)	10:00-11:30	D-106
*303-1	*Electoral Behavior* Instructor: Fleitas An examination of the psychological, sociological, and political variables that influence voting behavior and that affect electoral stability and change. The course emphasizes studies derived from survey research.	(3)	12:30- 2:00	D-101
*315-1	*Judicial Behavior* Instructor: Brenner Prerequisites: Sociology 201 or 151-152, or Psychology 303. Survey of the empirical studies concerning the determinants of the behavior of judges.	(3)	10:00-11:30	LA-204

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PSYCHOLOGY

Course No.	*Title*		*Time*	*Room No.*
201-1	*General Psychology* Instructor: Grimsley	(4)	10:00-11:30	S-102
201-L1	*General Psychology Lab (MW)* Instructor: Talbutt		1:10- 4:00	S-103
201-L2	*General Psychology Lab (TTh)* Instructor: Talbutt Survey of general psychology as a behavioral science.		1:10- 4:00	S-103
202-1	*Educational Psychology* Instructor: Puttick	(3)	8:00- 9:30	S-103
202-2	*Educational Psychology* Instructor: Puttick The psychology of learning; problems related to the instructional processes. Suggested prerequisite: Psychology 201.	(3)	2:30- 4:00	S-201
301-1	*Child Psychology* Instructor: Sohn Remedial measures suggested in dealing with early child tendencies which might lead to serious school and personality difficulties. Operant and respondent learning, imitations and language development. Prerequisite: Psychology 201.	(3)	10:00-11:30	S-103
305-N	*Psychology of Personality* Instructor: Staff Prerequisite:Psychology 201. Current personality theories. Consideration given to psychoanalytic, physiological, trait and factor, and perceptual viewpoints in the light of contemporary research.	(3)	6:00- 7:30	S-103
341-1	*Experimental Psychology* Instructor: Sohn	(4)	12:30- 2:00	S-201
341-L1	*Experimental Psychology Lab (TTh)* Instructor: Sohn History of the experimental approach to motivation and learning theory, current issues and controversy. Emphasis is on laboratory problems. Prerequisites: Psychology 201 and Mat 222.		2:10- 5:00	S-203
501-1	*Exceptional Children* Instructor: W. Williams Assessing the exceptional child. Emphasis on current research in several diagnostic categories. Prerequisite: Psychology 201 and 301. (Also HDL 501-1)	(3)	10:00-11:30	D-101

Course No.	Title		Time	Room No.
503-1	*Psychology of Mental Retardation* Instructor: W. Williams An intensive study of the psychological and sociological aspects of mental retardation in relation to adjustment and educational development. Emphasis on current research and diagnostic categories. (Also HDL503-1)	(3)	8:00- 9:30	D-102
540-1	*Tests and Measurements* Instructor: Staff A survey of psychological and educational measurements in current use. Emphasis will be placed on structure, administration, and application of group and individual tests. (Also HDL540-1)	(3)	4:30- 6:00	D-101
RELIGION				
202-1	*Survey of the New Testament* Instructor: Witherspoon An introduction to the literature of the New Testament in light of its literary and historical background.	(3)	8:00- 9:30	C-109
304-1	*The Psalms and Wisdom Literature of Israel* Instructor: Witherspoon A study of the origin and content of the Psalms and a study of the place of the Wisdom Literature in the development of Hebrew Thought.	(3)	10:00-11:30	C-115
RUSSIAN				
102-1	*Elementary Russian* Instructor: Saman	(4)	12:30- 2:00	LA-201
102-L1	*Elementary Russian Laboratory* Prerequisite: Russian 101 or permission of department. Continuation of Russian 101. Ninety minutes of class and fifty minutes of laboratory work per day. (No college credit given if student has received credit for same language to satisfy entrance requirements.)		10:00-11:00	LA-106
SOCIOLOGY				
201-1	*General Sociology* Instructor: Roberts Survey of the field of sociology designed to acquaint the student with fundamental sociological concepts and principles. (Credit not given to students who have completed Sociology 151, 152, or their equivalent.)	(3)	8:00- 9:30	C-114

Course No.	*Title*		*Time*	*Room No.*
203-1	*Cultural Anthropology* Instructor: Ferraro	(3)	8:00- 9:30	C-115
203-2	*Cultural Anthropology* Instructor: Ferraro Introduction to the origins and development of cultures, their structures and functioning in primitive and the simpler modern societies, methods of cultural analysis, and theories of culture.	(3)	10:00-11:30	C-213
232-1	*Sociology of the Family* Instructor: Roberts Prerequisite: Soc. 151-152 or 201. Description and analysis of the family as a social institution with special reference to historical and cross-cultural perspectives and the impact of social change on the family and its interrelations with other institutions	(3)	10:00-11:30	C-215
*361-1	*Socialization and Society* Instructor: Wilson Prerequisites: Soc. 151-152 or 201. Analysis of the processes of socialization and social interaction and the sociocultural dimension of personality.	(3)	12:30- 2:00	C-105
*415-1	*Sociology of Complex Organization* Instructor: Wilson Prerequisite: Introductory sociology and consent of the instructor. Analysis of the structure and dynamics of complex organizations with special attention to rationalization through bureaucracy and the mechanisms of change.	(3)	10:00-11:30	C-216
SPANISH				
102-1	*Elementary Spanish* Instructor: McLeod	(4)	8:00- 9:30	LA-208
102-L1	*Elementary Spanish* Continuation of Spanish 101 with greater attention to reading and writing. Ninety minutes of class and fifty minutes laboratory work per day. (No college credit given if student has received credit for same language to satisfy entrance requirements.)		10:00-11:00	LA-106
202-1	*Intermediate Spanish* Instructor: Gleaves	(4)	12:30- 2:00	LA-208

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Course No.	*Title*	*Time*	*Room No.*
202-L1	*Intermediate Spanish Laboratory* Prerequisite: Spanish 201 or permission of department. Continuation of Spanish 201. Extensive practice in oral and written control of the language on basis of readings from Spanish or Spanish-American literature. Ninety minutes of class and fifty minutes of laboratory per day.	10:00-11:00	LA-106
491-1	*Selected Readings in Spanish* (3) Instructor: McLeod Prerequisite: Two 300 level courses or permission of department. Consideration in depth of a predetermined author or literary movement. Course conducted in Spanish. (Nineteenth Century Spanish Theater)	3:00- 4:30	LA-208

SPEECH AND THEATER

101-1	*Fundamentals of Speech (MTWTh)* (3) Instructor: Pell	8:00- 9:30	R-115
101-2	*Fundamentals of Speech (MTWTh)* (3) Instructor: Pell Training in voice and diction to develop effective delivery. The composition and presentation of speeches.	10:00-11:30	R-115

Applications for admission to the summer program and further information about registration and admissions are available from:

Mr. L. Robert Grogan
Director of Admissions
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

Students who are interested in teacher certification should write to:

Dean John B. Chase
College of Human Development and Learning
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

For general information regarding course offerings write to:

Dr. Seth H. Ellis
Director of Summer Session
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

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CHARLOTTE SUMMER 197

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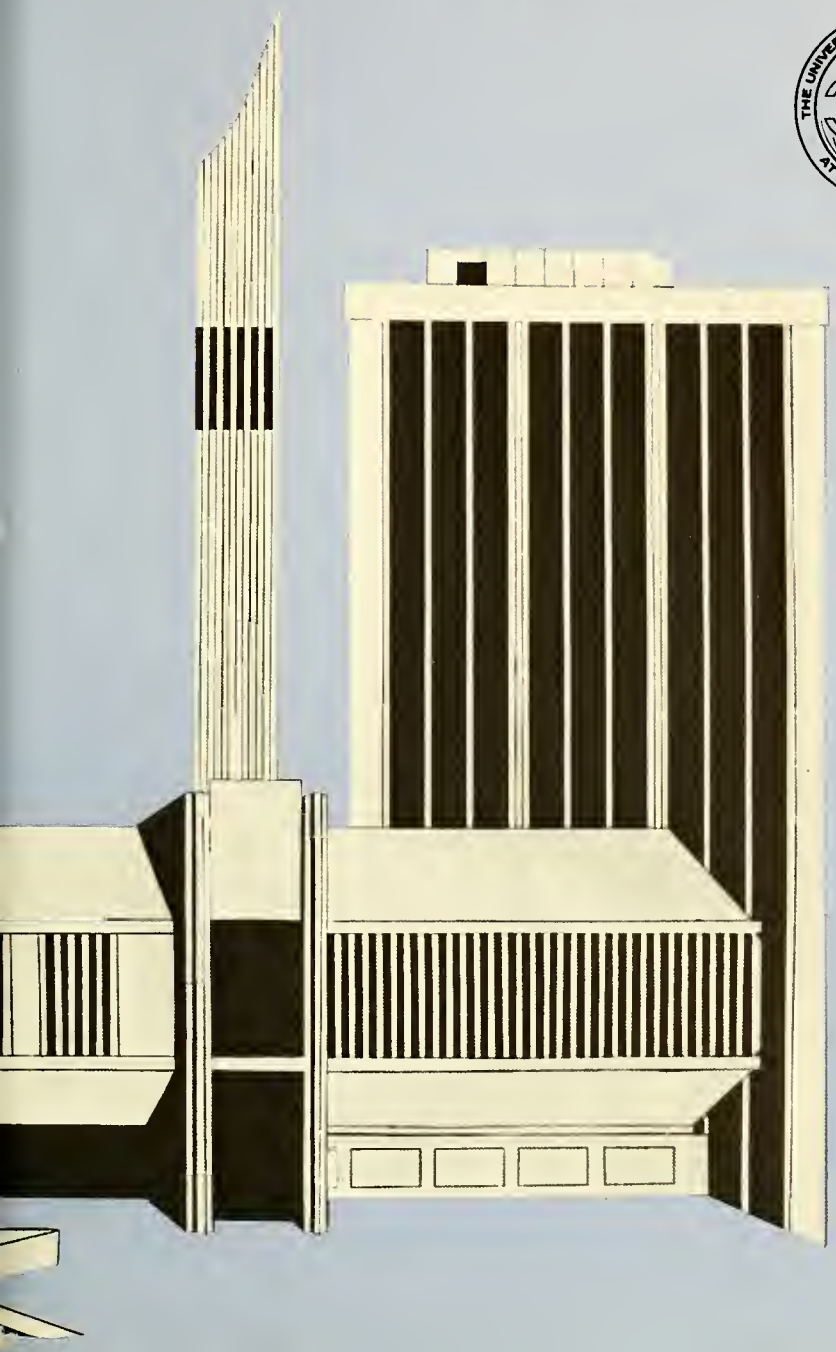
SUMMER SESSION CATALOG 1972



The University of North Carolina at Charlotte seeks participants for all its programs from people of all races, creeds, and national origins.

☐ 1st Summer Session ☐ 2nd Summer Session

APPLICATION FOR VISITORS, SPECIAL & NON-DEGREE STUDENTS

University of North Carolina at Charlotte

Name Mr. / Miss / Mrs. _____
(Last) (First) (Middle)

Sex_____ Social Security No. _____ Marital Status _____

Mailing Address _____
(Number) (Street) (City, State) (Zip)

Telephone Number _____ Date of Birth _____
(Month, Day, Year)

Legal Resident of North Carolina: Yes ____ No ____ How Long_____

(Prior College Experience—Include UNCC)

Attended From	To	*Institution's Name*	*Hours Earned*	*Name of Degree*	*Eligible to Return* Yes	No

If you wish graduate credit, please indicate. Yes _____ No_____
I certify that the above information is true and correct.

_____
Signature Date

Credit taken at UNCC as a visitor, special, or non-degree student will be recorded on a UNCC record, but will not apply to a degree unless a student completes a regular admission to the University.

For visitors to UNCC summer sessions: The following permission for work taken at UNCC is required. The signature of the proper official at your home institution is necessary.

Department	*Course Number*	*Hours*	*Audit*	*Credit*

Approved by: _____ _____
Signature Title

_____
Date

Mail completed application and admission fee to: Director of Summer Sessions, UNCC Station, UNCC, Charlotte, North Carolina 28213.

The University of North Carolina at Charlotte

Summer Session

1972

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CALENDAR—Summer Session 1972

Application Dates

Applications are expected to be submitted and completed according to the following schedule:

	Term of Entry	
	First Summer Session	*Second Summer Session*
Application Filed By	May 1	June 15
Application Completed By	May 15	July 1
Graduate Applications		
Filed By	April 15	May 15
Completed By	May 1	June 1

The University may alter these application dates in accordance with available resources and enrollment limitations established by the North Carolina General Assembly.

First Summer Term

June 5	Monday	Registration (Last day to register without late penalty of $5)
June 6	Tuesday	Classes begin
June 8	Thursday	Last day to register or withdraw (or drop a course) with refund
June 12	Monday	Last day to drop a course without grade evaluation
June 26-28	Monday-Wednesday	Registration for second summer session for students enrolled in first session
July 7	Friday	Last day of classes
July 10	Monday	Reading Day
July 11-12	Tuesday-Wednesday	Final Examinations

Second Summer Term

July 13	Thursday	Registration (Last day to register without late penalty of $5)
July 14	Friday	Classes begin
July 18	Tuesday	Last day to register or withdraw (or drop a course) with refund
July 21	Friday	Last day to drop a course without grade evaluation
August 14	Monday	Last day of classes
August 15	Tuesday	Reading Day
August 16-17	Wednesday-Thursday	Final Examinations

General Information

The summer session is designed to allow regular students an opportunity to accelerate their college work or to make up deficiencies, to encourage new students to begin their college careers early, to furnish teachers an opportunity to renew their certificates or broaden their general knowledge and skills, and to provide opportunities for persons with specific interests to attend college for short periods of time.

Grading

Undergraduate

Reports at the end of each term will be based upon the following grading system:

A Excellent
B Good
C Fair
D Passes
F Failed
I Incomplete
W Official Withdrawal

Graduate

A Commendable
B Satisfactory
C Marginal
U Unsatisfactory (Unsatisfactory work or withdrew while doing marginal or unsatisfactory work.)
I Incomplete
W Withdrew (Withdrew while doing satisfactory or commendable work.)

Attendance

Regular attendance in all classes is required.

Courses Offered

NOTE: PLEASE READ WITH CARE

1. The administration reserves the right to withdraw courses with insufficient enrollment. Courses may be added if there is sufficient demand.
2. Semester hour credits for each course are given in parentheses following the name of the course. An *N* after the course number indicates the course is taught at night. All 500 numbered courses and courses marked with an asterisk are open to graduates and undergraduates; all 600 numbered courses are graduate only.
3. A three semester hour course in the summer requires three times the daily pace as one during the regular semester. It is expected that each student register for not more than seven semester hours of credit per term.
4. Classes meet daily, Monday through Friday, except where specified to the contrary.
5. Abbreviations used to refer to buildings:

ATK—Atkins Library
BRND—Barnard
DLTN—Dalton Tower
DEN—Denny
KNDY—Kennedy
MACY—Macy
MEM—Memorial Hospital
PE—Physical Education
ROWE—Rowe
SMTH—Smith
WINN—Winningham

Library

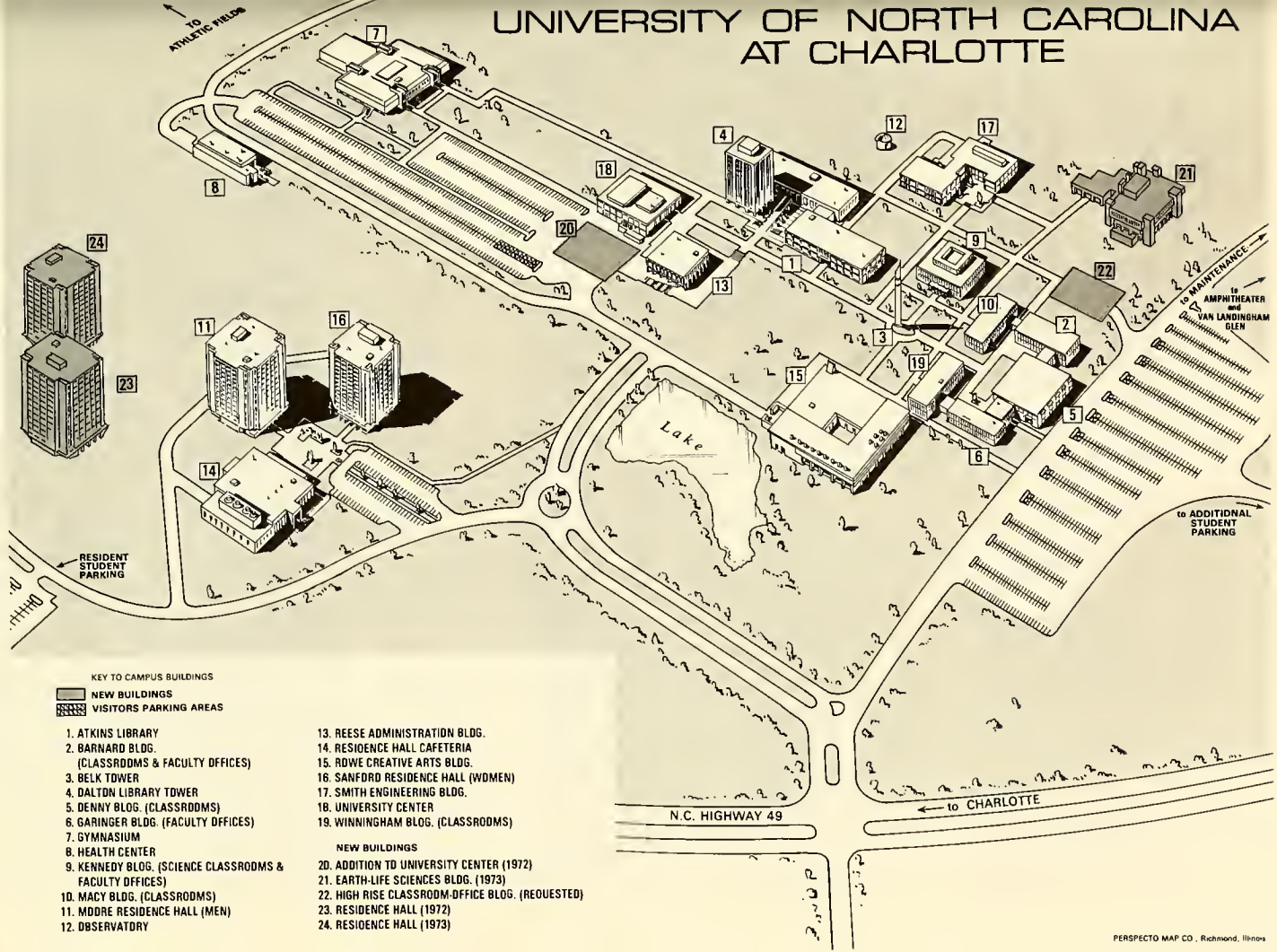
The University library will be open for the use of students from 8:00 a.m. to 11:00 p.m., Monday through Friday; 9:00 a.m. to 5:00 p.m., Saturday; and 2:00 p.m. to 11:00 p.m. on Sunday.

Use of Gym in Summer

All full-time and part-time students may use the recreational spaces in the gymnasium without additional charge. The student's summer school I.D. card will gain him entry into the facility. During unorganized physical recreational periods, facilities will be used on a first come, first served basis. Participants should follow the rules of sports etiquette in regard to those waiting.

If a student wishes to have a locker, laundry service, etc., he can acquire them by paying a fee of $3.00 per summer session at the Business Office.

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE



KEY TO CAMPUS BUILDINGS

NEW BUILDINGS

VISITORS PARKING AREAS

1. ATKINS LIBRARY
2. BARNARD BLDG. (CLASSRODMS & FACULTY DFFICES)
3. BELK TOWER
4. DALTON LIBRARY TOWER
5. DENNY BLOG. (CLASSRDDMS)
6. GARINGER BLDG. (FACULTY DFFICES)
7. GYMNASIUM
8. HEALTH CENTER
9. KENNEDY BLOG. (SCIENCE CLASSRODMS & FACULTY DFFICES)
10. MACY BLDG. (CLASSRODMS)
11. MDORE RESIDENCE HALL (MEN)
12. DBSERVATDRY
13. REESE ADMINISTRATIDN BLDG.
14. RESIDENCE HALL CAFETERIA
15. RDWE CREATIVE ARTS BLDG.
16. SANFDRD RESIDENCE HALL (WDMEN)
17. SMITH ENGINEERING BLDG.
18. UNIVERSITY CENTER
19. WINNINGHAM BLOG. (CLASSRODMS)

NEW BUILDINGS

20. ADDITION TO UNIVERSITY CENTER (1972)
21. EARTH-LIFE SCIENCES BLDG. (1973)
22. HIGH RISE CLASSRODM-DFFICE BLOG. (REQUESTED)
23. RESIDENCE HALL (1972)
24. RESIDENCE HALL (1973)

PERSPECTO MAP CO., Richmond, Illinois

Counseling Center

The University Counseling Center, 116 Reese Building, is a psychological service available at no cost to the University community. Staffed by professionally trained counselors and psychologists, the service is designed to assist individuals in developing a more effective and satisfactory adjustment in college life.

Individuals may receive assistance in resolving personal problems, exploring educational and vocational goals, and developing more effective reading and study skills. Consultation services are available to University groups and agencies.

The University Center

The Center is the community center for all members of the University family—students, faculty, administration, staff, alumni, and guests. The Center provides for the services, conveniences, and amenities needed in the daily life of members of the University family. It houses the cafeteria, games room, lounge-gallery area, a large multi-purpose room, meeting rooms, offices for student government and the major publications, and an information center.

The Center is open for breakfast at 7:00 a.m. and remains open, normally, until 8:00 p.m.

The Student Activities Board is responsible for the program of social activities, lectures, recreational activities, and concerts which are presented in the Center and in the residence halls.

Residence Halls

See section titled *Expenses* on page 9.

University Bookstore

The University Bookstore, which is located in the Atkins Library Annex, is open from 8:00 to 6:00 Monday through Thursday and from 8:00 to 4:00 on Friday during the summer sessions.

Admissions

Undergraduate Admissions

Summer Transient

The University invites students from other college campuses to take advantage of the summer programs. Transient students are limited in course selection only by the approvals from their respective institutions. The University assumes no responsibility in determining a transient student's course selection.

Enrollment in the summer session in no way obligates the University to continue one's enrollment at the University of North Carolina at Charlotte. Those who seek to transfer must complete the application for undergraduate admission and meet the requirements therein.

Summer applicants receive from the Office of Admissions a letter of acceptance.

Applicants for transient admission must complete the application included in the summer bulletin and submit it with a $10 application fee and the permission of the proper college official to the Director of Summer Sessions.

Transient students are admitted to the summer session and to the regular academic year. Admission is granted only for one term. Continued enrollment requires an additional application. Credits earned as a transient student may not count toward a degree from the University of North Carolina at Charlotte until regular entrance requirements are met. When a student is admitted, all work taken as a transient will and must apply to the degree.

Freshman Admissions

Applicants for freshman admission must present the following:

1. Obtain an application from the Office of Admissions and return the completed form to that office.
2. Include an application fee of $10. *The fee is not refundable.*
3. Give the Secondary School Record and Recommendation Form to the proper high school officials. Transcripts are accepted after completion of the junior year. In order to be eligible for admission, you must have completed 16 acceptable units, 13 of which must have been in academic areas. In addition, you must have completed courses as required by the degree program for which you apply.
4. Present satisfactory scores on the Scholastic Aptitude Test of the College Entrance Examination Board. The Admissions Committee will consider SAT scores from any of the national testings. You are responsible for having the official examination scores sent from the Education Testing Service to the Office of Admissions. Handwritten or typed scores cannot be used for official purposes.

5. Present satisfactory evidence of good character. You are responsible for requesting the principal or guidance counselor of the secondary school to furnish the Office of Admissions with a recommendation.
6. Upon conditional admission, complete and return the Medical Admissions Requirement Form to the University Health Service.
7. Request a supplementary transcript be sent to the Office of Admissions upon graduation from high school.
8. Remit $100 deposit within three weeks of date of acceptance. The deposit applies to your tuition and is refunded if notification of withdrawal is given by May 1, or one month prior to the beginning of the semester.

Transfer Admissions

Applicants for transfer admission must present the following:

1. Obtain an application from the Office of Admissions and return the completed form to that office.
2. Include an application fee of $10. *The fee is not refundable.*
3. Request official transcripts from all colleges attended be mailed directly to the Office of Admissions.
4. Give Confidential Statement(s) to proper college official(s). The recommendation is required from each college attended.
5. Request an official transcript from the high school from which you graduated.
6. If you are presenting fewer than 24 transferable hours, you must meet all freshman entrance requirements as well as those listed for transfer students.
7. You must present a minimum of an overall *C* average (2.0 based on the 4.0 scale, according to the UNCC method of computation) on all work attempted at all institutions previously attended.
8. Junior and senior transfer students must declare an academic major.
9. Upon conditional admission, complete and return the Medical Admissions Requirement Form to the University Health Service.
10. Remit $100 deposit within three weeks of acceptance. The deposit applies to your tuition and is refunded if notification of withdrawal is given by May 1, or one month prior to the beginning of the semester.

Transfer students entering the University after attending a junior or community college will receive no more than 64 semester hours of academic credit (66 including two semester hours of required physical education) toward a Bachelor of Arts degree and no more than 68 semester hours of academic credit (70 including two in required physical education) toward the Bachelor of Science and Bachelor of Science in Engineering degrees.

Expenses

The rates for each of the 1972 summer terms are based on the number of semester hours taken by each student and include fees.

When individual music study is offered, an extra fee is charged in the amount of $45 per term for one hour credit.

A parking fee of $4 is charged for the summer session. This fee is applicable for a term if one elects to attend only one term.

The University reserves the right to make, with the approval of the proper authorities, changes in tuition and other fees at any time.

Fees

	In-State Students	*Out of State Students*
2 Semester Hours (minimum)	*$39.00*	*$103.00*
3 Semester Hours	*47.00*	*143.00*
4 Semester Hours	*55.00*	*183.00*
5 Semester Hours	*63.00*	*223.00*
6 Semester Hours	*71.00*	*263.00*
7 Semester Hours	*78.00*	*303.00*

Withdrawal and Refund of Fees

A student who officially withdraws from the University on or before the third day of classes in each summer session will receive a refund of the full amount paid less a registration fee of $10. After the period specified, no refund will be made.

In order to withdraw from summer school, a student should complete a withdrawal form in the Registrar's Office. Students regularly enrolled at UNCC should initiate the withdrawal in the department of their major.

The Residence Halls

The University offers a new concept in on-campus housing. Two residence halls provide a congenial atmosphere for living and learning. The buildings, while housing a large number of students, are designed to provide for the intimacy of small groups as well as for the larger social groupings through which a meaningful living-learning program is developed.

In addition to well planned bedrooms, the halls provide lounges, study and seminar rooms and recreation space—all *air conditioned* for total comfort.

The bedrooms are a combination study and sleeping space for two students. Each student has his own desk with desk lamp and bookshelves, wardrobe, chest of drawers and bed. Rooms may be used for single occupancy when space permits. Two high-speed elevators service each hall, and each suite has a telephone.

Student mail boxes, a vending machine area, a library-lounge, and the resident administrator's apartment are on the main floor. The lower floor contains the recreation room, and trunk storage. Maids and custodians clean bathrooms and public areas daily, and bedrooms weekly. A linen service, which provides 2 sheets, one pillow case, and 3 bath-size towels weekly, is available on a subscription basis at $6.75 plus 4% tax per six-week term.

Charges are pro-rata amounts of the regular semester charges and for rooms are as follows:

Each student in double room, each 6 week term:	*$ 72.00*
Single occupancy of a double room, each 6 week term:	*$108.00*

Meals will be available 7 days per week on a cash basis in the University cafeteria.

Financial Aid

Regularly enrolled UNCC students may apply for financial aid for the summer sessions. All financial aid—scholarships, grants-in-aid, loans, and work study opportunities—is awarded on the basis of financial need. Summer visitors from other campuses are not eligible for financial assistance.

Information and applications may be secured from the Office of Financial Aid, Room 112, Reese Building, University of North Carolina at Charlotte, UNCC Station, Charlotte, N. C. 28213.

Graduate Studies

Master of Education and Master of Arts in Education

The University of North Carolina at Charlotte offers three graduate degree programs, two of which are directed primarily to the in-service school teachers in the Metrolina area. The Master of Education is designed for elementary and other school personnel. The Master of Arts in Education is designed chiefly for the secondary school teacher, with initial areas of academic concentration in English, history, and mathematics. Additional areas are to be added as rapidly as resources become available.

For admission to graduate study at the University of North Carolina at Charlotte, application must be made on a form supplied by the Director of Graduate Studies and accompanied by appropriate test scores, letters of recommendation, and official transcripts of all academic work taken beyond the high school. Applicants must possess a bachelor's degree, or its equivalent, should have an overall quality point average of 2.50 (on the 4 point system) on all work beyond high school, with an average of

3.0 or better on the major or basic courses prerequisite to the area of proposed graduate study. Applicants for admission to programs leading to the M.Ed. or M.A.Ed. will normally possess a valid North Carolina Class "A" teacher's certificate, or be approved in advance.

At least half of all work offered for an advanced degree must be taken in courses which are open to graduate students only; the other half may be from such courses or from courses open to advanced undergraduates and graduate students. Courses open to graduate students only are listed as 600-699. Courses open to both graduate and undergraduate students are preceded by an asterisk.

Requirements for the Master of Education include a minimum of thirty hours of approved course work, at least twelve of which shall be in professional education, twelve in no more than two content areas, and six in electives approved by the student's adviser. Those for the Master of Arts in Education include thirty hours of approved course work, of which at least eighteen must be in a single content area and at least six in professional education. Up to six hours transfer credit may be accepted from another accredited institution.

Master of Management

The University also offers, through a thirty-six hour program, a Master of Management degree designed to develop candidates for leadership positions in complex organizations of the future. Admission to this program is open to qualified graduates of recognized colleges or universities accredited by a regional or general accrediting agency. There are four major requirements for admission, (1) a generally satisfactory undergraduate record, (2) an acceptable score on the Admissions Test for Graduate Study in Business, administered by the Educational Testing Service of Princeton, New Jersey, (3) a description of any significant work experience, and (4) three supporting letters of recommendation from professors or employers.

Candidates who wish to enter the Master of Management program must file all data necessary to support their applications, including relevant test scores, with the Graduate Office two months prior to the beginning of the term in which they expect to enter.

New students will normally be enrolled only in the fall semester.

For further information write: Director of Graduate Studies, Master of Management Program, University of North Carolina at Charlotte, UNCC Station, Charlotte, North Carolina 28213.

Application Deadlines

Applications for admission to the graduate programs for the first summer session must be filed by April 15, 1972, and completed by May 1, 1972. Applications for admission to the graduate programs for the second summer session must be filed by May 15, 1972, and completed by June 1, 1972.

Short Courses and Courses Meeting for Longer Than Six Weeks

First Summer Session
June 7-June 21

Course No.	*Title*	*Time*	*Room No.*
HISTORY			
HIS 650b-1	*India and Africa: A Cultural Approach* (3) Instructors: White and Patterson	9:30-11:30 1:00-3:00	DEN 111
	Prerequisite: Possession of North Carolina Class "A" Teacher Certificate. The course will focus on the history, geography, and culture of India and Africa with attention given to the development of curricular materials that may be used in the classroom. Class open to Intermediate and Secondary school teachers.		
HUMAN DEVELOPMENT AND LEARNING			
	2. Meaning and Growth in Teaching/ Learning Relationships		
HDL 625-1	*Concepts of Teaching and Learning*	8:00-11:30	
	A. Integrated Studies (3) Instructor. Close-Thomas		DLTN 31
	B. Language Development and Reading (3) Instructor: Hackney		DLTN 6
	A course designed to provide the student with an opportunity to critically examine current trends and practices in particular areas such as: A. Integrated Studies, and B. Language Development and Reading		
	3. The Helping Relationship		
HDL 665-1	*Analyzing and Developing Approaches to the Helping Relationships*	8:00-11:30	
	A. Person to Person Relationships (3) Instructor: Rollins & Staff		SMTH 201
	B. Group Process and Behavioral Change (3) Instructor: Zerof		SMTH 301
	D. Supervision (3) Instructor: Staff		SMTH 204
	A course designed for the study of ways, means, and concepts of improving instruction, learning, and development through the helping relationship. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. Person to Person Relationships, B. Group Process and Behavioral Change, and D. Supervision.		

Course No.	Title	Time	Room No.

Second Summer Session
July 13-August 4 Three Week Courses

HUMAN DEVELOPMENT AND LEARNING

1. Explorations in Human Potential

HDL 600-1 *Explorations in Human Potential* 8:00-11:30

A. The Person and School in Urban Society (3) SMTH 204
Instructor: Maxwell

B. The Facilitation of Meaning (3) SMTH 201
Instructor: Staff

C. Children and Youth (3) SMTH 301
Instructor: Rowland

A course designed to explore in depth the identification, development and release of human potential. Emphasis will be given to techniques, relationships, and programs which develop potential. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. The Person and School in Urban Society, B. The Facilitation of Meaning, and C. Children and Youth.

2. Meaning and Growth in Teaching/ Learning Relationships

HDL 625-1 *Concepts of Teaching and Learning* 8:00-11:30

C. Science (3) KNDY 120
Instructor: Pollak

A laboratory-oriented course intended primarily (but not exclusively) for elementary school teachers. Topics include basic scientific concepts such as energy, interaction, relativity of motion, scientific model, as well as teaching strategies and their relationship to theories of learning and development such as Piaget's theory.

HDL 630-1 *Examination and Appraisal of Reading Instruction* (3) 8:00-11:30 DLTN 6
Instructor: Staff

Aspects of the reading program ranging from readiness to diagnostic and remedial techniques. Current practices and materials used in reading programs are investigated and evaluated. Emphasis will be placed on a flexibility of programs to meet the learning needs of individual students.

3. The Helping Relationship

HDL 665-1 *Analyzing and Developing Approaches to the Helping Relationships* 8:00-11:30

Course No.	*Title*	*Time*	*Room No.*
	A. Person to Person Relationships (3) Instructor: Rollins & Staff		DEN 205
	D. -1 Supervision (3) Instructor: Pleasants		DEN 206
	D. -2 Supervision (3) Instructor: Smith		DEN 217
	A course designed for the study of ways, means, and concepts of improving instruction, learning, and development through the helping relationship. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. Person to Person Relationships, and D. Supervision.		
	4. Experience and Commitment in Human Development and Learning		
HDL 570-1	*Selected Topics in Human Development and Learning*	8:30-12:00	
	A. Living/Learning Styles (3) Instructor: Zerof (A workshop planned for teachers and other staff members of the public schools working with the Living/Learning Center of the University of North Carolina at Charlotte.)		ROWE 115
	E. Newspaper in the Classroom (3) Instructor: Wilson and Norton		DLTN 24
	Prerequisite: HDL 201 and permission of the College of Human Development and Learning. Topics and special problems chosen in relation to human learning, ideas, practices, significant movements, or detailed study of models for human learning. Seminars, independent study, and clinical experiences. May be repeated for credit with approval.		

June 19-August 11 Eight Week Courses

MATHEMATICS

MAT 600-1	*Foundations of Mathematics* MWF (3) Instructor: Johnson Prerequisite: Consent of the department. Set, logic, and axiomatics with examples drawn from algebra and geometry.		8:00-9:30	BRND 103
MAT 603-1	*Computer Techniques and Numerical Methods* MWF (3) Instructor: Goodrum Prerequisite: 601 or consent of the department. A study of digital computer systems,		12:30-2:00	BRND 103

Course No.	Title	Time	Room No.

the programming of a digital computer and the use of the computer in the solution of problems by numerical methods.

MAT 606-1 *Topics in Algebra* MWF (3) 10:00-11:30 BRND 103
Instructor: Johnson

Prerequisite: 601 or consent of the department. A selection of topics from the classical algebraic structures, including groups, rings, fields, and vector spaces. May be repeated for credit.

June 6-August 17 Ten Week Course

ACCOUNTING

ACC 371-N *Cost Accounting* MW (3) 6:00-8:30 DEN 105
Instructor: Drucker

Prerequisite: Accounting 202. A study of cost determination and control. Emphasis will be placed on managerial uses of cost accounting.

Seminars, Institutes and Workshops

The Robert A. Taft Institute of Government Seminar (3) DLTN 24
June 12-June 23 (MTuWThF)

(Political Science 450) The Robert A. Taft Institute of Government and the Institute for Urban Studies and Community Service at the University of North Carolina at Charlotte are co-sponsoring a graduate seminar for 35 school teachers who have the responsibility for conducting social studies, civics, or government classes. Seminar leaders will include Congressmen, State legislators, city and county officials, political party officials, members of the governmental bureaucracies, interest group spokesmen, newspaper and television officials, and University professors. The purpose of the Seminar will be to examine in depth the American electoral process within the context of a presidential election year. Teachers selected to participate will receive a grant to cover the cost of in-state tuition and room and board expenses on the campus for a two-week period (out-of-state tuition costs must be paid by the participant). Inquiries should be directed to Dr. Schley R. Lyons, Department of Political Science, University of North Carolina at Charlotte, UNCC Station, Charlotte, North Carolina 28213.

NSF In-Service Institute in Environmental Science
August 1, 1972-August 18, 1972
Geography 650B—Workshop in Geography, Environmental Science I

A proposal to the National Science Foundation for support of an In-Service Institute in Environmental Science for 40 teachers of science has been submitted. Dr. James W. Clay, proposed director, of the Department of Geography and Geology, will be notified in March, 1972. The Institute will run for three weeks beginning August 1, 1972, through August 18, 1972. Four hours of graduate credit will be granted to those participants who successfully complete the program.

Inquiries should be directed to:

Dr. James W. Clay
Department of Geography & Geology
University of North Carolina at Charlotte
Charlotte, North Carolina 28213

Selected Topics in Human Development and Learning:
HDL 570 Newspaper in the Classroom (3) DLTN 24
July 13-August 4 (Three Weeks)

Inquiries should be directed to:

College of Human Development and Learning
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

Service-Learning Internship Program

May 26, 1972-August 17, 1972

The service-learning internship program in Community Education and Service is designed as an area-wide academic program with credit in the College of Social and Behavioral Sciences. The program is serviced through the Institute for Urban Studies and Community Service.

The following are the overall objectives of the Internship Program:

To identify relationships between the student's academic program and the problems and prospects of modern urban communities.

To enable students to become involved in solving problems of the urban community.

To provide manpower for governmental and service agencies in local metropolitan communities.

To encourage youth to consider careers and/or citizen leadership in urban administration and service.

To establish a closer relationship between institutions of higher education and the Charlotte area communities by making the resources of the colleges and universities more accessible to the community and by providing a basis for keeping curriculum, teaching, and research relevant to the needs of the community and society.

Interns will receive six semester hours of academic credit for their participation in the Program in Community Education and Service by enrolling in the following courses in the College of Social and Behavioral Sciences (SBS) at the University of North Carolina at Charlotte:

SBS 397 *Internship in Community Education and Service* (3)
Prerequisite: Junior standing, acceptance into the program, and approval of the student's major department. Corequisite: SBS 398. A project-oriented, service-learning internship with cooperative community organizations.

SBS 398 *Seminar in Community Education and Service* (3)
Corequisite: SBS 397 or participating in a service-learning situation approved by the College of Social and Behavioral Sciences. A forum for the analysis of needs in the urban community and the responses being generated to meet them. Interpreting the relationship between internship experiences in terms of the service-learning concept.

NOTE: The intern's major department has the option of recognizing this credit as fulfilling departmental requirements and granting permission to repeat for credit. Interns not regularly enrolled at the University of North Carolina at Charlotte are responsible for arranging for transfer of credit with their home institutions. Applications should be completed by March 1, 1972.

Inquiries should be directed to: Institute for Urban Studies and Community Service
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

First Summer Session 1972

ACCOUNTING

Course No.	*Title*		*Time*	*Room No.*
ACC 201-1	*Principles of Accounting* Instructor: Williamson A study of fundamental accounting principles, with emphasis on managerial uses of accounting data, and analysis of financial statements.	(3)	8:00- 9:30	DEN 114
ACC 201-2	*Principles of Accounting* Instructor: Higgins	(3)	10:00-11:30	DEN 114
ACC 201-3	*Principles of Accounting* Instructor: Reed	(3)	12:30- 2:00	DEN 114
ACC 201-L01	*Laboratory* M Instructor: Williamson		2:30- 4:30	DEN 114
ACC 201-L02	*Laboratory* Tu Instructor: Higgins		2:30- 4:30	DEN 114
ACC 201-L03	*Laboratory* W Instructor: Reed		2:30- 4:30	DEN 114
ACC 371-1	*Cost Accounting* Instructor: Turner Prerequisite: Accounting 202. A study of cost determination and control. Emphasis will be placed on managerial uses of cost accounting.	(3)	8:00- 9:30	WINN 106
ACC 371-2	*Cost Accounting* Instructor: Drucker	(3)	10:00-11:30	WINN 109

Course No.	*Title*	*Time*	*Room No.*
ACC 371-L01	*Laboratory* M Instructor: Turner	2:30- 4:30	WINN 106
ACC 371-L02	*Laboratory* Tu Instructor: Drucker	2:30- 4:30	WINN 109
ACC 374-1	*Intermediate Accounting I* (3) Instructor: Turner Prerequisite Accounting 202. A study of accounting theory and concepts and their application to financial accounting.	10:00-11:30	WINN 106
ACC 374-L01	*Laboratory* W Instructor: Turner	2:30-4:30	WINN 106
ART			
ART 110-1	*Introduction to Art for Non-Majors* (3) Instructor: Hybel An introduction to art history and appreciation covering basic concepts, aesthetic aims and social influences which characterize and differentiate one civilization or period from another.	12:30- 2:00	ROWE 101
ART 310c-1	*Selected Topics in Art History* (3) Instructor: Hybel Prerequisite for non-art majors: Art 110. Seminar in Japanese art history.	10:00-11:30	ROWE 101
ART 370-1	*Art Education for Non-Art Majors* MTuWTh (3) Instructor: Nonn Investigations in the various techniques of two- and three-dimensional media appropriate to the elementary school art program.	2:00- 4:30	ROWE 216
ART 320b-1	*Two Dimensional Studio—Drawing* MTuWTh (3) Instructor: Anderson Studio investigations into aspects of two-dimensional figurative and life organization and approaches.	2:00- 4:30	ROWE 204
BIOLOGY			
BIO 101-1	*Principles of Biology* (4) Instructor: Johnson No credit toward a biology major. A course designed to acquaint the student with the fundamental principles of life.	12:30- 2:00	KNDY 107
BIO 101-L01	*Laboratory* TuWTh Instructor: Johnson	10:00-11:50	KNDY 221
BIO 101-L02	*Laboratory* TuWTh Instructor: Ostrowski	2:10- 4:00	KNDY 221

Course No.	*Title*		*Time*	*Room No.*
BIO 205-1	*Human Anatomy and Physiology* Instructor: Hogan Prerequisite: One semester of biology. No credit toward a biology major. Basic fundamentals of the anatomy and physiology of the human body as an integrated unit.	(3)	12:30- 2:00	KNDY 207
BIO 205A-1	*Human Anatomy and Physiology Laboratory* TuWTh Instructor: Hogan Prerequisite or corequisite: Biology 205.	(1)	2:10- 5:00	KNDY 220
BIO 331-1	*Genetics* Instructor: Ostrowski Prerequisite: Biology 231. Basic concepts of heredity: principles of classical and molecular genetics.	(3)	10:00-11:30	KNDY 107
BIO 338-1	*Embryology* Instructor: Edwards Prerequisite: Biology 221. Developmental interactions during gametogenesis, fertilization, early embryology, and organogenesis.	(3)	12:30- 2:00	KNDY 120
BIO 338A-1	*Embryology Laboratory TuWTh* Instructor: Edwards Prerequisite or corequisite: Biology 338.	(1)	2:10- 5:00	KNDY 201
BIO 497-1	*Investigations in Biology* Instructor: May be repeated for credit. Prerequisite: Permission of the department. A course designed to allow the senior Biology major to initiate a research project in his field of interest.	(1-4)	TBA	
BUSINESS ADMINISTRATION				
BUS 311-1	*Marketing* Instructor: Campbell Prerequisite: Economics 202. Analysis of the activities which direct the flow of goods and services from producers to consumers in modern economic systems; focuses on development of the student's ability to perceive and evaluate marketing problems and policies.	(3)	8:00- 9:30	WINN 204
BUS 311-2	*Marketing* Instructor: Campbell	(3)	10:00-11:30	WINN 204
BUS 316-1	*Financial Management* Instructor: Walls Prerequisite: Accounting 202. Principles and problems of business financing. Particular emphasis on financial planning and control.	(3)	8:00- 9:30	WINN 205
BUS 316-2	*Financial Management* Instructor: Walls	(3)	10:00-11:30	WINN 205

Course No.	*Title*		*Time*	*Room No.*
BUS 380-1	*Business Law* Instructor: Trosch A study of the legal environment within which business operates, topics covered include contracts, sales, negotiable instruments, agency, partnerships, and corporations.	(3)	8:00- 9:30	WINN 109
BUS 380-2	*Business Law* Instructor: Trosch	(3)	10:00-11:30	WINN 206
BUS 444-1	*Organization Theory* Instructor: Conrad Prerequisites: Economics 202 and senior standing. An application of traditional and behavioral concepts to business organization and decision making. Primarily a study of the process of decision making in the business organization including the more modern feed back systems of group behavior.	(3)	10:00-11:30	WINN 207
BUS 444-2	*Organization Theory* Instructor: Conrad	(3)	12:30- 2:00	WINN 204
CHEMISTRY				
CHE 101-1	*Principles of Chemistry* Instructor: Bush Prerequisite or corequisite: Mathematics 101 or Mathematics 103. A principles-oriented course for science majors. Fundamental postulates and laws of chemistry; the relationship of atomic structure to physical and chemical properties of the elements.	(4)	12:30- 2:00	DEN 109
CHE 101-L01	*Laboratory* TuWTh Instructor: Bush		2:10- 5:00	KNDY 320
CHE 101-L02	*Laboratory* TuWTh Instructor: Staff		2:10- 5:00	KNDY 313
CHE 103-1	*General Chemistry* Instructor: Norman Designed primarily for non-science majors. Fundamentals of chemistry and selected topics from inorganic, organic, colloid, nuclear, and biochemistry.	(4)	12:30- 2:00	KNDY 309
CHE 103-L01	*Laboratory* TuWTh Instructor: Norman		2:10- 5:00	KNDY 309
CHE 231-1	*Organic Chemistry* Instructor: Crosthwaite Prerequisite: Chemistry 102. Basic theories, principles, and techniques of organic chemistry and their applications to reactions of aliphatic and aromatic compounds and natural products.	(4)	12:30- 2:00	DEN 103

Course No.	*Title*		*Time*	*Room No.*
CHE 231-L01	*Laboratory* TuWTh Instructor: Crosthwaite		2:10- 5:00	KNDY 310
CHE 231-L02	*Laboratory* TuWTh Instructor: Walsh		2:10- 5:00	KNDY 321
ECONOMICS				
ECO 201-1	*Principles of Economics-Macro* Instructor: Liner Topics considered include the scope and methodology of economics as a social science, the measurement of national income, the theory of national income determination, money and banking, and monetary and fiscal policy.	(3)	8:00- 9:30	WINN 207
ECO 201-2	*Principles of Economics-Macro* Instructor: Liner	(3)	10:00-11:30	DEN 103
ECO 201-3	*Principles of Economics-Macro* Instructor: Stuper	(3)	12:30- 2:00	WINN 205
ECO 324-1	*Managerial Economics* Instructor: Whisnant Prerequisites: Economics 202, Accounting 202, Mathematics 122, and Computer Science 100. A consideration of economic problems of particular importance to business firms, with a view of using tools of economic analysis in managerial decision making.	(3)	8:00- 9:30	DEN 102
ECO 324-2	*Managerial Economics* Instructor: Whisnant	(3)	10:00-11:30	DEN 102
ECO 370-1	*Monetary and Fiscal Policy* Instructor: Stuper Prerequisite: Economics 201. An examination of the nature and content of economic behavior of the American economy. This course deals primarily with a critical examination of monetary and fiscal tools and their application with a view toward full employment, economic growth, and price stability.	(3)	8:00- 9:30	WINN 206
ECO 471-1	*International Economics* Instructor: Jorgenson Prerequisites: Economics 201 and 202. A survey of trade theories from classical mercantilism to the contemporary version. A detailed discussion of balance of payments, foreign exchange rate, capital movements, and monetary reform proposals is undertaken. Special attention is given to an evaluation of international financial organizations and regional groupings.	(3)	8:00- 9:30	DEN 105

Course No.	*Title*		*Time*	*Room No.*
ECO 480-1	*Industrial Organization and Public Policy*	(3)	10:00-11:30	DEN 105
	Instructor: Jorgenson Prerequisite: Economics 202. An examination of the characteristics of various types of industries — competitive, oligopolistic, monopolistic, and monopolistically competitive — and of the questions of public policy in dealing with problems created by industrial concentration.			
ENGINEERING				
EGR 101-1	*Introduction to Engineering Problems I*	(2)	8:00- 9:30	SMTH 349
	Instructor: Evett An introduction to the concepts, techniques, and tools used to solve engineering problems. Use of the slide rule; elements of engineering drawing. Introduction to computer programming. Introduction to graphical analysis.			
EGR 251-1	*Basic Engineering Laboratory I*	(1)	2:00- 5:00	SMTH 326
	MTuTh Instructor: Smith Prerequisite or corequisite: EE 211. The first of a series of engineering laboratories designed to instruct the student in the use of laboratory equipment, and to develop and apply the principles of experimentation and measurement.			
EGR 490-1	*Computer Utilization*	(3)	8:00- 9:30	SMTH 226
	Instructor: Wayne The application of the digital computer to engineering problems. Computer aided analysis and design.			
EE 211-1	*Linear Networks I*	(3)	12:30- 2:00	SMTH 227
	Instructor: Seevers Prerequisite: Math 144. Introduction to Kirchoff's current and voltage equations using oriented linear graph techniques. Formulation of cutset and circuit matrices. Terminal equations of network elements. Formulation of the primary and secondary systems of equations by matrix methods. Network theorems and equivalence. Power and energy functions.			
EM 211-1	*Engineering Mechanics I*	(3)	10:00-11:30	SMTH 203
	Instructor: Crippen Prerequisite: Math 144. Review of vector algebra; unit vectors, scalar and vector products of vectors. Newton's Laws: the			

Course No.	Title	Time	Room No.
	equilibrium of a particle, friction, the equilibrium of systems of particles and of rigid bodies. Center of gravity, center of mass, centroids. The kinematics of a particle: rectangular Cartesian and orthogonal curvilinear coordinates. The kinematics of rigid bodies; relative motion. The dynamics of a particle: Newton's second law, work and kinetic energy, potential energy, work and conservative force fields, impulse and momentum.		
ME 311-1	*Thermodynamics I* (3) Instructor: Kim Prerequisites: EM 211 or Physics 221, Math 271. First and second laws of thermodynamics. Work and heat. Thermodynamic probability and entropy. Ideal and real gases. Nonreactive mixtures of gases. Availability and irreversibility. Vapor and gas power cycles.	8:00- 9:30	SMTH 228
LE 311-1	*Technology in Historical Perspective* (3) Instructor: Bell Prerequisite: Junior standing. Selected historical cases in science, applied science, and technology are reviewed to show the impacts that technological advances have had on man's world. Emphasis is placed on the technologies and their effect on man's physical environment rather than on the resulting change in man's viewpoint toward society, economics, or politics. This course is designed for non-engineering students.	8:00- 9:30	SMTH 306
LE 390-1	*Special Topics in Environmental Control* (3) Instructor: Bell Prerequisite: Junior standing. Study of a range of environmental problems of interest to the class. The tracing of problem cases to their technological origins, the identification of available, feasible, technological solutions to the specific problems treated. On site inspection of industrial sources of pollution will be made in a series of field trips. Open to non-engineering students; not open to environmental engineering majors.	12:30- 2:00	SMTH 203
ET 371-1	*Engineering Analysis I* (3) Instructor: Grant Prerequisite: ET 370 and differential and integral calculus. Methods of solving engineering problems which involve the differentiation and integration of algebraic, trigonometric, and logarithmic functions; use of integral tables.	8:00- 9:30	SMTH 345

Course No.	*Title*	*Time*	*Room No.*
ENGLISH			
ENG 101-1	*English Composition* (3) Instructor: Boger Readings and intensive practice in writing, especially exposition, with emphasis on rhetorical effectiveness.	8:00- 9:30	WINN 214
ENG 101-2	*English Composition* (3) Instructor: Harper	10:00-11:30	WINN 214
ENG 102-1	*English Composition* (3) Instructor: Harper Critical writing, collateral reading, and introduction to literary study.	8:00- 9:30	WINN 208
ENG 102-2	*English Composition* (3) Instructor: Grey	12:30- 2:00	WINN 214
ENG 201-1	*English Literature* (3) Instructor: Hedges Prerequisite: Eng 101 and 102. Intensive study of the masterpieces of British literature in chronological sequence before 1700.	8:00- 9:30	WINN 209
ENG 201-2	*English Literature* (3) Instructor: Kerwin	2:30- 4:00	WINN 214
ENG 203-1	*Masterpieces of Modern Fiction* (3) Instructor: Harris Prerequisite: Eng 101 and 102. Readings in selected novels and short stories written since 1850. Does not count toward an English major.	10:00-11:30	WINN 211
ENG 204-1	*Major American Writers* (3) Instructor: Shapiro Prerequisite: Eng 101 and 102. Extensive readings in six to eight authors. Recommended for non-English majors who are working for teachers certificates.	8:00- 9:30	WINN 211
ENG 205-1	*Selected Themes in Literature* (3) Instructor: Kerwin Prerequisite: Eng 101 and 102. The exploration of a theme such as revolution or the characterization of women, with the theme changing from semester to semester.	10:00-11:30	WINN 208
ENG 312-1	*Shokespeare* (3) Instructor: Moose Twelve of his major plays from the comedies, tragedies, and histories.	10:00-11:30	WINN 209
ENG 332-1	*Introduction to Modern English* (3) Instructor: Varnas An introduction to the phonology and grammatical structure of present-day English, with some consideration of word formation,	2:30- 4:00	WINN 211

Course No.	Title		Time	Room No.
	changes in meaning, dialectal differences, and problems of usage.			
ENG 341-1	*American Liteurature 1820-1890*	(3)	12:30- 2:00	WINN 209
	Instructor: Shapiro The chief writers and literary movements from Irving through Whitman.			
*ENG 450-1	*Modern Poetry*	(3)	2:30- 4:00	WINN 209
	Instructor: Grey Chief British and American poets of this century.			
*ENG 461-1	*Modern English Grammar*	(3)	12:30- 2:00	WINN 211
	Instructor: Varnas Prerequisite: Eng 331 or 332. A descriptive analysis of the structure of Modern English, with emphasis upon the transformational approach.			
ENG 680-1	*Seminar in English Literature*	(3)	12:30- 2:00	WINN 202
	Instructor: Moose			
ENG 685-1	*Seminar in American Literature*	(3)	10:00-11:30	WINN 202
	Instructor: Mason			
FRENCH				
FRE 101-1	*Elementary French*	(4)	12:30- 2:00	MACY 203
	Instructor: Rothe Fundamentals of French grammar and phonetics, reading, writing, and conversation.			
FRE 101-L01	*Laboratory*		10:00-11:00	MACY 106
	Instructor: Rothe			
FRE 201-1	*Intermediate French*	(4)	8:00- 9:30	MACY 203
	Instructor: Rothe Prerequisite: Fre 102, or permission of the department. Review grammar, with composition and conversation based upon readings on French culture and civilization.			
FRE 201-L01	*Laboratory*		10:00-11:00	MACY 106
	Instructor: Rothe			
FRE 301-1	*Advanced French Grammar, Composition, and Conversation I*	(3)	2:00 3:30	MACY 203
	Instructor: Slechta Prerequisite: Fre 202, or permission of the department. For prospective teachers of French and students who want intensive oral and written work in the language. Book reports on collateral readings.			

Open to Graduates and Undegraduates.

Course No.	*Title*	*Time*	*Room No.*
GEOGRAPHY			
GGY 101-1	*Earth Science Geography* (4) Instructor: Clay A study of basic geographical principles and processes in earth science: the earth—its position and motions; the grid system; weather; climate; the waters; soils; and vegetation.	10:00-11:30	SMTH 218
GGY 101-L01	*Laboratory* MW Instructor: Clay	2:00- 5:00	SMTH 347
GGY 302-1	*Geography of Polar Regions* (4) Instructor: Stuart A study of the Arctic and Antarctic regions with particular emphasis on the history of exploration, the physical environment and political significance.	10:00-11:30	SMTH 217
*GGY 303-1	*Geography of Anglo-America* (3) Instructor: Walcott The geographic structure of the United States and Canada with emphasis on both the physical environment and the patterns of human activities.	12:30- 2:00	SMTH 217
*GGY 317-1	*Transportation* (3) Instructor: Walcott The study of those geographical and human factors which affect the movement of goods and people from place to place. Emphasis will be placed on transportation routes and networks, commodity flow patterns, and the locational implications of freight rates.	8:00- 9:30	SMTH 217
*GGY 450-1	*Special Problems in Geography* (1) Instructor: Staff Permission of department must be obtained and credit hours established in advance. May be repeated for credit. Tutorial study or special research problems.	ARRAN	
*GGY 450-2	*Special Problems in Geography* (2) Instructor: Staff	ARRAN	
*GGY 450-3	*Special Problems in Geography* (3) Instructor: Staff	ARRAN	
*GGY 450-4	*Special Problems in Geography* (4) Instructor: Staff	ARRAN	

*Open to Graduates and Undergraduates.

Course No.	*Title*		*Time*	*Room No.*
GEOLOGY				
GLY 102-1	*Earth Science Geology* Instructor: Jarrell A study of the basic geological principles and processes in earth science; the earth as a planet; treatment of physical processes shaping the earth; earth materials and landforms.	(4)	8:00- 9:30	SMTH 218
GLY 102-L01	*Laboratory* TuTh Instructor: Jarrell		2:00- 5:00	SMTH 248
GERMAN				
GER 101-1	*Elementary German* Instructor: Reimer Fundamental of German grammar and phonetics, reading, and conversation.	(4)	8:00- 9:30	MACY 205
GER 101-L01	*Laboratory* Instructor: Reimer		10:00-11:00	MACY 106
GER 201-1	*Intermediate German* Instructor: Reimer Prerequisite: Ger 102 or permission of the department. Review grammar, composition, and conversation based upon readings on the culture and civilization of German-speaking countries.	(4)	12:30- 2:00	MACY 205
GER 201-L01	*Laboratory* Instructor: Reimer		10:00-11:00	MACY 106
HEALTH AND PHYSICAL EDUCATION				
PED 110-1	*Beginning Swimming* Instructor: Alder Designed to teach weak or non-swimmers a basic stroke and safe entry into and exit from the water.	(1)	10:00-11:30	PE 227 Pool
PED 120-1	*Beginning Tennis* Instructor: Kingery The rules, history, basic skills and basic strategy.	(1)	10:00-11:30	PE 222 Courts
PED 123-1	*Beginning Badminton* Instructor: Bostian The rules, history, basic skills and basic strategy.	(1)	11:30- 1:00	PE 222 Gym
PED 140-1	*Beginning Golf* Instructor: Avant The grip, stance, stroke, use and selection of clubs, history, rules, and etiquette.	(1)	8:00- 9:30	PE 222 Field
PED 142-1	*Archery* Instructor: Avant The fundamental skills, and selection, care and repair of equipment.	(1)	10:00-11:30	PE 222 Field

Course No.	Title		Time	Room No.
HED 409-1	*Health Education Laboratory* Instructor: Connerat Prerequisites: HED 101 and Education 303. Health instruction, principles of health teaching for the elementary grades.	(3)	10:00-11:30	PE 229
HISTORY				
HIS 101-N	*Modern Western Civilization to 1815* Instructor: Warren This course commences with broad survey of ancient and medieval contributions to modern Western civilization and then treats intensively the development of Western civilization from the Renaissance to 1815.	(3)	6:00- 7:20	DEN 102
HIS 102-1	*Modern Western Civilization from 1815 to the Present* Instructor: Rieke Continuation of History 101 with greater emphasis on developments outside the Atlantic community of Western civilization.	(3)	10:00-11:30	DEN 106
HIS 103-1	*American History I* Instructor: Robbins Survey of American history from the earliest times to 1865.	(3)	2:30- 3:50	DEN 102
HIS 104-1	*American History II* Instructor: Josephson Survey of American history from 1865 to present.	(3)	8:00- 9:30	DEN 106
HIS 106-1	*Medieval History* Instructor: Wrigley Political and cultural developments from the late Roman Empire until the Renaissance.	(3)	12:30- 2:00	DEN 102
HIS 110-1	*Latin America II* Instructor: Broadhurst A survey of the cultural, political, and economic developments of Latin America during the national period. A special focus will be placed on the rise of nationalism and revolutionary movements.	(3)	8:00- 9:30	DEN 103
HIS 309-N	*Nineteenth Century Europe, 1814-1914* Instructor: Warren A survey of the major political developments in European history from the Congress of Vienna. Emphasis will be placed on liberalism, nationalism, imperialism, and the diplomatic agreements leading to World War I.	(3)	7:30- 9:00	DEN 103
HIS 350a-1	*Spain and Portugal, 1400-1815* Instructor: Broadhurst Study of development of Spain and Portugal with emphasis on social and intellectual history.	(3)	12:30- 2:00	DEN 106

Course No.	*Title*		*Time*	*Room No.*
HIS 362-1	*Modern Britain, 1485-1789* Instructor: Ploger Continuation of History 361 with some treatment of the British Empire.	(3)	8:00- 9:30	DEN 115
HIS 374-N	*America in Crisis, 1824-1860* Instructor: Robbins A consideration of the new American nation in crisis. Attention is given to the development of nationalism under Jackson, the expansion of the new nation, the growth of sectionalism, and the events leading to secession.	(3)	6:00- 7:30	DEN 103
HIS 384-1	*American Economic History, 1865 to Present* Instructor: Hall Continuation of History 383.	(3)	8:00- 9:30	DEN 117
HIS 387-1	*American Labor History* Instructor: Hall Life and thought of American workingmen from the colonial period to the present, with attention both to the individual and to the development of labor organizations.	(3)	10:00-11:30	DEN 117
HIS 491-1	*Tutorial in History* Instructor: Rieke Prerequisite: Consent of the department. Seminar in historical method, bibliography, and purpose of historical writing. A major research paper under the direction of a staff member.	(3)	2:30- 4:00	WINN 203
HIS 492a-1	*Great Women in History* Instructor: Ploger Prerequisite: Consent of the department.	(3)	12:30- 2:00	DEN 105
HIS 650a-1	*America in the Cold War* Instructor: Josephson A study of the origins of the Cold War, Soviet-American relations since World War II, the making and breaking of the Atlantic Alliance, and America's response to nationalism and revolution in the Third World.	(3)	10:00-11:30	DEN 115
HIS 693-1	*Historiography and Methodology* Instructor: Wrigley A study of the historian and his philosophical and methodological approach.	(3)	2:30- 4:00	DEN 103

Course No.	*Title*	*Time*	*Room No.*

HUMAN DEVELOPMENT AND LEARNING

Teacher education and other programs in human development and most professional certification guidelines require professional study in at least four areas:

1. Explorations in Human Potential (Social, Philosophical, and Psychological Foundations)
2. Meaning and Growth in Teaching/Learning Experiences (Curriculum and Instruction)
3. The Helping Relationship (Guidance, Group Relationships, Administration, and Supervision)
4. Experience and Commitment in Human Learning and Development (Clinical Experiences)

Therefore, to assist the student in selecting courses to meet requirements in each professional area, courses are listed by areas. Courses numbered below 500 are designed for undergraduate credit, 500 level courses are designed for graduates and advanced undergraduates. Courses for graduates are listed as 600 level courses.

1. Explorations in Human Potential

HDL 201-1	*Introductory Explorations in Human Potential* Instructor: Smith An introductory course in the philosophical foundation of the educative process designed to explore the nature of man, and human potential, in relation to one's system of beliefs, values, and relationships. Emphasis is given to the analysis and development of the student's beliefs, his personhood, and to his role in relationships. Clinical experiences are provided to introduce the student to teaching/learning relationships and to a sociological orientation of growth and the school in modern society. Open to freshmen.	(3)	8:00- 9:30	MACY 204
HDL 201-2	*Introductory Explorations in Human Potential* Instructor: Staff	(3)	10:00-11:30	MACY 204
HDL 201-3	*Introductory Explorations in Human Potential* Instructor: Staff	(3)	12:30- 2:00	MACY 204
HDL 201-4	*Introductory Explorations in Human Potential* Instructor: Rollins	(3)	2:30- 4:00	DLTN 31

Course No.	*Title*		*Time*	*Room No.*
HDL 600-1	*Explorations in Human Potential*		8:00- 9:30	
	A. The Person and School in Urban Society	(3)		DEN 205
	Instructor: Pleasants			
	B. The Facilitation of Meaning	(3)		DEN 206
	Instructor: Staff			
	C. Children and Youth	(3)		DEN 217
	Instructor: Powers			
	A course designed to explore in depth the identification, development and release of human potential. Emphasis will be given to techniques, relationships, and programs which develop potential. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. The Person and School in Urban Society, B. The Facilitation of Meaning, and C. Children and Youth.			
HDL 606-1	*Adjustment Problems, Children and Youth*	(3)	10:00-11:30	MACY 205
	Instructor: Powers			
	A study of adjustment problems from childhood and adolescence in relation to theoretical postulates and to school problems. Special emphasis is given to problems of behavior and attitudes toward learning and relationships.			
	2. Meaning and Growth in Teaching/ Learning Relationships			
HDL 301-1	*Reading and the Language Arts*	(3)	8:00- 9:30	ROWE 134
	Instructor: Rippy			
	Emphasis on oral and written communication, with special attention to the teaching of reading; appraisal of current programs and methods. This course required of all students planning to teach on the elementary level. Prerequisites: HDL 201, Psychology 202.			
HDL 301-2	*Reading and the Language Arts*	(3)	10:00-11:30	ROWE 134
	Instructor: Rippy			
HDL 303-1	*Elementary Education I: Organization and Curriculum*	(3)	8:00- 9:30	ROWE 115
	Instructor: Sadoff			
	A course designed to develop an understanding of the curriculum of the elementary school. Emphasis is placed on the role of the teacher in the design, organization and administration of the elementary school.			

Course No.	Title		Time	Room No.
	Major consideration is given to approaches to instructional organization such as multi-age grouping and team teaching as they relate to the curriculum. Prerequisites: HDL 201, Psychology 202.			
HDL 303-2	*Elementary Education I: Organization and Curriculum*	(3)	12:30- 2:00	DLTN 31
	Instructor: Close-Thomas			
HDL 620-1	*Curriculum Theory*		10:00-11:30	
	A. Meaning and Growth	(3)		DEN 205
	Instructor: Pleasants			
	B. Creativity and Experiences	(3)		DEN 206
	Instructor: Sadoff			
	C. Strategies and Designs	(3)		DEN 217
	Instructor: Smith			
	A study of the determinants of curriculum as they relate to facilitation of the transition from theory to practice. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. Meaning and Growth, B. Creativity and Experiences, and C. Strategies and Designs. Emphasis is placed on research and experimentation in the development of theory, processes, materials, and relationships in curriculum design.			
	3. The Helping Relationship			
HDL 660-1	*Behavioral Analysis of Administration*	(3)	12:30- 2:00	MACY 210
	Instructor: Hackney			
	An extensive study of the behavioral components of administrative theory, organization, decision making, and planning for educational development. An appraisal of significant, functions, techniques, practices and problems as they relate to the public school systems, to other social institutions, with the system of social and governmental entities.			
HDL 663-1	*Developmental Approaches to the Theory and Practice of Guidance*	(3)	12:30- 2:00	BRND 108
	Instructor: Burke			
	A study of guidance and counseling as a developmental concept with emphasis upon the philosophical, social, and psychological bases for the helping relationship. Experiences are provided to facilitate the necessary competencies — self-analysis, value judgments, and the creation of relationships needed to facilitate the growth of others toward personhood.			

Course No.	Title		Time	Room No.
HDL 663-2	*Developmental Approaches to the Theory and Practice of Guidance* Instructor: Staff	(3)	8:00- 9:30	DEN 109
HDL 665-1	*Analyzing and Developing Approaches to the Helping Relationships* C. Counseling Instructor: Zerof A course designed for the study of ways, means, and concepts of improving instruction, learning, and development through the helping relationship. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need.	(3)	12:30- 2:00	ROWE 115

4. Experience and Commitment in Human Development and Learning

HDL 570-1	*Selected Topics in Human Development and Learning* A. Living/Learning Styles Instructor: Staff Prerequisites: HDL 201 and permission of the College of Human Development and Learning. Topics and special problems chose in relation to human learning, ideas, practices, significant movements, or detailed study of models for human learning. Seminars, independent study, and clinical experiences. May be repeated for credit with approval.	(3)	TBA	ATK 317
HDL 672-1	*Problems in Human Development and Learning* Instructor: Burke Prerequisite: Permission of the College of Human Development and Learning. Designed to permit students to conduct action research on selected problems, guided research, and individual project work under the direction of a staff member. This course may be repeated for credit with the approval of the College of Human Development and Learning.	(3-6)	TBA	ATK 317

MATHEMATICS

MAT 101-1	*Basic Concepts of Mathematics* Instructor: Wright Algebraic properties of the real number system; sets; relations, functions, graphing and solution of equations and inequalities; vectors and matrices; polynomial, exponential and logarithmic functions; introduction	(3)	8:00- 9:30	BRND 105

Course No.	Title		Time	Room No.
	to computer programming. (Credit not given to students having credit for MAT 103.)			
MAT 101-2	*Basic Concepts of Mathematics* Instructor: Porterfield	(3)	10:00-11:30	BRND 105
MAT 101-N	*Basic Concepts of Mathematics* Instructor: Stavrakas	(3)	6:00- 7:30	BRND 105
MAT 103-1	*Concepts of Mathematics* Instructor: Stewart The real number system as a complete ordered field; concepts of sets, relations and functions; graphing and solution of equations inequalities; elements of mathematical logic; and introduction to mathematical structures. (Credit not given to students having credit for Mat 101.)	(3)	10:00-11:30	BRND 106
MAT 122-1	*Elements of Statistics* Instructor: Stewart (Sections 2 directed toward majors in the Social Sciences). Prerequisite: MAT 101 or 103. An introduction to the principles of statistical measures and hypothesis testing. Mean, variance, standard deviation; confidence, intervals, binomial and normal distributions; contingency tables, chi-square test; non-parametric tests including the sign test rank sum test, the t-test; linear regression, correlation and an introduction to analysis of variance and multiple regression. Assignments will involve the use of "canned" programs on the University computer.	(3)	8:00- 9:30	BRND 108
MAT 122-2	*Elements of Statistics* Instructor: Pyles	(3)	10:00-11:30	BRND 108
MAT 122-3	*Elements of Statistics* Instructor: Pyles	(3)	12:30- 2:00	BRND 105
MAT 143-1	*Differential Calculus I* Instructor: Schell Prerequisite: MAT 104 with a grade of *C* or better. Limits in R^n; continuity of $R^n \rightarrow R^m$ functions; differential calculus of $R \rightarrow R^n$ functions; extreme values; concavity; curve sketching; velocity and acceleration; related rates.	(3)	8:00- 9:30	BRND 106
MAT 143-N	*Differential Calculus I* Instructor: Stavrakas	(3)	7:40- 9:10	BRND 105
MAT 221-1	*Introduction to Probability* Instructor: Basavappa Prerequisite: MAT 101-103. A study of the elements of probability theory. Sample spaces, events, conditional probability, inde-	(3)	12:30- 2:00	BRND 106

Course No.	Title	Time	Room No.
	pendent events. Random variables, mean, variance and standard deviation, joint probability functions, independent random variables, sampling, covariance and correlation, Binomial distribution and hypothesis testing.		
MAT 244-1	*Integral Calculus II* (3) Instructor: Porterfield Prerequisite: MAT 144 with a grade of *C* or better. Multiple integration; iterated integrals series, improper integrals, Stoke's theorem.	8:00- 9:30	BRND 104
MAT 350-1	*Algebraic Theory of Sequential Machines* (3) Instructor: Basavappa Prerequisite: Consent of the department. Use of groups and semi-groups in the study of sequential machines.	8:00- 9:30	BRND 102
MAT 403-1	*Arithmetic in the School* (3) Instructor: Wright Prerequisite: MAT 101 or equivalent. A study of the number systems with emphasis placed upon the basic concepts and meanings, properties of addition, multiplication, inverses, systems of numeration, and the number line appropriate for each grade. (Does not count toward a major in mathematics.)	10:00-11:30	BRND 104
CSC 100-1	*Algorithmic Languages I* (3) Instructor: Staff Prerequisite: MAT 101 or 103. An introduction to digital computing techniques through the study of Fortran IV. Various numerical and nonnumerical algorithms will be studied, flow-charted, programmed and documented. Concepts such as computer hardware, computer application areas, etc., will be introduced when appropriate.	10:00-12:00	SMTH 229
CSC 100-2	*Algorithmic Languages I* (3) Instructor: Staff	12:30- 2:30	SMTH 229
MUSIC			
MUS 051G-11	*Guitar* (1) Instructor: Mosley	TBA	ROWE 293
MUS 051L-10	*Piano* (1) Instructor: Turner	TBA	ROWE 289
MUS 051P-2	*Voice* (1) Instructor: Gathier *All above: Two forty-five minute lessons per week and a minimum of 1½ hours practice per day.*	TBA	ROWE 279

Course No.	*Title*	*Time*	*Room No.*
MUS 207-1	*Introduction to Music Literature* (3) Instructor: Turner The development of resources for the aural exploration of music through emphasis on stylistic characteristics and the evolution of musical forms, and the interrelationship of music with other cultural influences.	10:00-11:30	ROWE 115
MUS 307-1	*Music for Elementary School Teachers* (3) Instructor: Mosley Prerequisite or corequisite: HDL 303. Methods and materials of instruction which the teacher can apply in a music program in the elementary school.	12:30- 2:00	ROWE 134
NURSING			
NUR 102-1	*Ecology of Man* (3) Instructor: Brocker The focus of this course is directed toward understanding the relationship of the ill person to his family and community. Major health problems and facilities provided by society for meeting health needs will be included in the content.	1:00- 2:30	PE 227
NUR 201-1	*Fundamentals of Nursing I* (4) Instructor: R. Mauldin Prerequisite or corequisite: Nursing 102. Study of the basic concepts and principles essential for the nursing care of adults and children. Emphasis is placed on the correlation of principles of nursing with concepts of behavioral and natural sciences. One hour lecture and three hours of laboratory work each day. (Laboratory sessions are held in Charlotte Memorial Hospital. Students will wear their nurse uniforms.)	7:30-12:00	
NUR 403-1	*Fundamentals of Nursing VII* (Public Health Nursing) (5) Instructor: Smith Prerequisites: 200 and 300-level courses in nursing. Considers concepts and philosophy of public health nursing; functions and responsibilities of the public health nurse in the community. Laboratory experience in community health nursing and public health agency settings.	12:00 1:30	PE 229
NUR 403-L01	*Laboratory* MTuWThF Instructor: Smith	8:30-11:30	

Course No.	*Title*		*Time*	*Room No.*
PHILOSOPHY				
PHI 201-1	*Introduction to Philosophy* Instructor: Corkey An introduction to some of the basic concepts and problems of philosophy.	(3)	8:00- 9:30	DEN 216
PHI 201-2	*Introduction to Philosophy* Instructor: Presler	(3)	2:30- 4:00	DEN 216
PHI 205-1	*Introduction to Logic and Scientific Method* Instructor: Presler An introduction to the study of the general principles of deductive logic, both classical and symbolic, and an introduction to the nature of inductive reasoning and scientific explanation.	(3)	10:00-11:30	DEN 216
PHYSICS				
PHY 101-N	*Introductory Physics I* Instructor: Vermillion Prerequisite or corequisite: Mathematics 101 or Mathematics 103. Introduction to the fundamental principles of natural phenomena. Topics will be selected from traditional classical subjects (e.g., Newtonian mechanics, electromagnetism) and more recent developments in order to illustrate the logical structure of modern science.	(4)	6:00- 7:30	KNDY 107
PHY 101-L01	*Laboratory* TuWTh Instructor: Mayes		2:10- 5:00	KNDY 113
PHY 101-LN	*Laboratory* TuWTh Instructor: Vermillion		7:40-10:30	KNDY 113
PHY 221-1	*Particle Dynamics* Instructor: Mayes Prerequisites: Mathematics 143 and 144. Kinematics and dynamics of particles; momentum, work, and energy; conservation laws; mechanics of rigid bodies.	(3)	12:30- 2:00	SMTH 306
PHY 222-1	*Waves and Thermal Physics* Instructor: Melton Prerequisites: Physics 221 or EM 211; Math 143 and 144. Fluid mechanics and elastic properties of matter; oscillations and waves in elastic media; sound; heat and an introduction to thermodynamics and the kinetic theory of gases.	(3)	12:30- 2:00	SMTH 301
POLITICAL SCIENCE				
PSC 201-1	*Introduction to American Politics* Instructor: Bryant	(3)	8:00- 9:30	BRND 101

Course No.	Title		Time	Room No.
	Role of the President, Congress, Supreme Court and national administrative agencies in the American political system. Relationship between the American people and their political institutions with emphasis upon political culture, the electoral process, interest groups, political communication, and the international commitments of the United States.			
PSC 201-2	*Introduction to American Politics*	(3)	10:00-11:30	BRND 102
	Instructor: Brenner			
PSC 202-1	*Introduction to Comparative Politics*	(3)	10:00-11:30	MACY 210
	Instructor: Amen			
	Political institutions in the contemporary world. An introduction to the concepts of government, the phenomena of conflict, power, order, and authority implicit in the term "government," as well as the various political systems and structures which men have established.			
PSC 301-1	*Political Socialization*	(3)	10:00-11:30	MACY 206
	Instructor: Fleitas			
	The study of the processes by which the political culture of the society is transmitted, formally and informally, to individual members. The course examines the learning process, the agents of socialization, the content of the learning, and the consequences of political socialization for the functioning of the political system.			
*PSC 301-2	*Political Socialization*	(3)	12:30- 2:00	BRND 101
	Instructor: Fleitas			
PSC 315-1	*Civil Rights and Liberties*	(3)	12:30- 2:00	BRND 102
	Instructor: Brenner			
	An analysis of Supreme Court decisions relating to civil rights and liberties.			
PSC 341-1	*Government and Politics of Western Europe*	(3)	8:00- 9:30	MACY 210
	Instructor: Amen			
	Comparative analysis of selected West European governments including Great Britain, France, Germany, and Italy.			
*PSC 383-1	*Administrative Behavior*	(3)	10:00-11:30	BRND 101
	Instructor: Bryant			
	The role of the administrator and public bureaucracy in modern democratic society. Particular attention will be given to the interplay of forces created by executives, legislators, political parties and interest groups.			

**Open to Graduates and Undergraduates.*

Course No.	*Title*		*Time*	*Room No.*
PSYCHOLOGY				
PSY 201-1	*General Psychology* Instructor: Grimsley Survey of general psychology as a behavioral science.	(4)	8:00- 9:30	KNDY 107
PSY 201-L01	*Laboratory* MW Instructor: Talbutt		1:00- 3:50	WINN 107
PSY 201-L02	*Laboratory* TuTh Instructor: Talbutt		1:00- 3:50	WINN 107
PSY 202-1	*Educational Psychology* Instructor: Puttick PSY 201 is suggested prerequisite. The psychology of learning; problems related to concept formation and application of behavior modification techniques to the classroom.	(3)	12:30- 2:00	DEN 215
PSY 303-N	*Social Psychology* Instructor: Walsh Prerequisite: PSY 201. The social behavior of man. Man's behavior in relation to other individuals, groups, and products of culture, both material and non-material. Group dynamics, leadership, the nature of prejudice, the effects of mass communication, public opinion are some of the topics treated.	(3)	7:30- 9:00	WINN 106
PSY 305-N	*Psychology of Personality* Instructor: Stack Prerequisite: PSY 201. Current personality theories. Consideration given to psychoanalytic, physiological, trait and factor, and perceptual viewpoints in the light of contemporary research.	(3)	6:00- 7:30	WINN 106
PSY 307-1	*Abnormal Psychology* Instructor: Diamant Prerequisite: PSY 201. A history of psychopathology. Case studies, differential diagnosis, psychological dynamics of abnormal behavior, including theoretical, clinical, and experimental contributions in the field.	(3)	10:00-11:30	DEN 118
PSY 480-1	*Research Methods in Physiological Psychology* Instructor: Grimsley Prerequisite: PSY 201 and permission of the instructor. An introduction to current laboratory techniques in physiological psychology, including basic surgeries, lesioning, stimulation and histology.	(4)	10:00-11:30	KNDY 120

Course No.	*Title*		*Time*	*Room No.*
PSY 480-L01	*Laboratory* MW Instructor: Grimsley		1:00- 3:50	WINN 109
*PSY 502-1	*Adjustment Problems of the Disadvantaged* Instructor: Diamant A seminar concerned with such issues as racial attitudes, prejudice, and poverty. Assigned reading and discussion deal with the application of psychological principles to these problems. Contributing lecturers with professional experience with problems of the disadvantaged will participate.	(3)	8:00- 9:30	KNDY 120
*PSY 503-1	*Psychology of Mental Retardation* Instructor: Williams An intensive study of the psychological and sociological aspects of mental retardation in relation to adjustment and educational development. Emphasis on current research and diagnostic categories.	(3)	8:00- 9:30	DEN 118
RELIGION				
REL 201-1	*Survey of the Old Testament* Instructor: St. Clair An introduction to the literature of the Old Testament in light of its literary and historical background.	(3)	8:00- 9:30	DEN 215
REL 201-2	*Survey of the Old Testament* Instructor: St. Clair	(3)	10:00-11:30	DEN 215
REL 203-1	*Comparative Religions* Instructor: White A survey of man's religious consciousness from the earliest intimations of its awakening to the development of the world's living religions today.	(3)	8:00- 9:30	ROWE 101
RUSSIAN				
RUS 101-1	*Elementary Russian* Instructor: Saman Fundamentals of Russian grammar, with particular stress on correct pronunciation and self-expression, through practice in the language laboratory.	(4)	8:00- 9:30	MACY 206
RUS 101-L01	*Laboratory* Instructor: Saman		11:00-12:00	MACY 106
RUS 201-1	*Intermediate Russian* Instructor: Saman Prerequisite: RUS 102 or permission of the department. Review grammar, with conversation and composition based upon readings in Russian culture and civilization.	(4)	12:30- 2:00	MACY 206

*Open to Graduates and Undergraduates.

Course No.	*Title*		*Time*	*Room No.*
RUS 201-L01	*Laboratory* Instructor: Saman		11:00-12:00	MACY 106
SOCIOLOGY				
SOC 151-1	*Introduction to Sociology I* Instructor: Jordan Introduction to sociology as a discipline, the sociological perspective, and the process of sociological inquiry emphasizing fundamental concepts, principles, and procedures.	(3)	8:00- 9:30	DEN 203
SOC 151-2	*Introduction to Sociology I* Instructor: Wheaton	(3)	10:00-11:30	DEN 213
SOC 203-1	*Cultural Anthropology* Instructor: Ferraro Introduction to the origins and development of cultures, their structure and functioning in primitive and the simpler modern societies, methods of cultural analysis, and theories of culture.	(3)	10:00-11:30	DEN 203
SOC 253-1	*Evolution of Sociology Inquiry* Instructor: Goodnight Prerequisite: SOC 151-152 or the equivalent. Examination of the origins and evolution of fundamental sociological concepts, theories, and research procedures and their contributions to sociological inquiry.	(3)	8:00- 9:30	DEN 213
SOC 271-1	*Social Problems* Instructor: Wheaton Prerequisite: SOC 151. Analysis of contemporary social problems and their consequences for mankind, with special emphasis upon the problems of American society.	(3)	12:30- 2:00	DEN 213
*SOC 354-1	*Sociological Inquiry I: Theories and their Construction* Instructor: Jordan Prerequisite: SOC 253 and three semester hours of logic. Systematic analysis of competing and complementary theories in contemporary sociology and the acquisition and application of the basic skills of theory construction.	(3)	10:00-11:30	WINN 216
*SOC 372-1	*Sociology of Deviant Behavior* Instructor: Roberts Prerequisite: SOC 151. Examination of the forms, causes, consequences, and control of deviant behavior.	(3)	12:30- 2:00	WINN 106

**Open to Graduates and Undergraduates.*

Course No.	*Title*	*Time*	*Room No.*
*SOC 456-1	*Seminar in Advanced Sociological Inquiry* (3) Instructor: Lance Prerequisite: SOC 355. Synthesis and utilization of basic sociological principles and techniques in supervised independent theorization and verification, including the presentation of projects to seminar members and departmental faculty for evaluation and criticism.	8:00- 9:30	WINN 203
*SOC 456-2	*Seminar in Advanced Sociological Inquiry* (3) Instructor: Lance	10:00-11:30	WINN 203
*SOC 490a-1	*Seminar on Family* (3) Instructor: Roberts Prerequisite: Consent of the department.	10:00-11:30	MACY 203
*SOC 490b-1	*Seminar Cultural Anthropology* (3) Instructor: Ferraro Prerequisite: Consent of the department.	8:00- 9:30	WINN 216
SPANISH			
SPA 101-1	*Elementary Spanish* (4) Instructor: Hopper Introduction to Spanish, with emphasis on auditory comprehension, oral production and control of structure.	8:00- 9:30	MACY 208
SPA 101-L01	*Laboratory* Instructor: Hopper	11:00-12:00	MACY 106
SPA 201-1	*Intermediate Spanish* (4) Instructor: Gleaves Prerequisite: SPA 102 or permission of department. Reinforcement and expansion of skill mastery developed in elementary courses on basis of grammar review and conversation.	12:30- 2:00	MACY 208
SPA 201-L01	*Laboratory* Instructor: Gleaves	11:00-12:00	MACY 106
SPA 491-1	*Senior Colloquium* (3) Instructor: Gleaves Prerequisite: Senior standing and permission of the department. Comprehensive review of the major field.	2:30- 4:00	MACY 208
SPEECH AND THEATER			
STH 101-1	*Fundamentals of Speech* (3) Instructor: Emish Training in voice and diction to develop effective delivery. The composition and presentation of speeches.	10:00-11:30	ROWE 125

**Open to Graduates and Undergraduates.*

Course No.	*Title*		*Time*	*Room No.*
STH 201-1	*Oral Interpretation* Instructor: Emish Prerequisite: Sophomore standing. Intensive training in voice and diction. Analysis and presentation of selected English and American literature.	(3)	1:30- 3:00	ROWE 125
STH 492-1	*Seminar* Instructor: Rackley Prerequisite: Consent of instructor. Production of a play.	(3)	TBA	ROWE 138
STH 492-2	*Seminar* Instructor: Rackley	(3)	TBA	ROWE 138

Exam Schedule for First Summer Session

If Class Meeting Time Is:	*The Examination Will Be:*
8:00	8:00 to 11:00, Tuesday, July 11
10:00	8:00 to 11:00, Wednesday, July 12
12:30	12:30 to 3:30, Tuesday, July 11
1:30-2:00-2:30	12:30 to 3:30, Wednesday, July 12
6:00	6:00 to 9:00, Tuesday, July 11
7:30-7:40	6:00 to 9:00, Wednesday, July 12

Second Summer Session 1972

Course No.	*Title*		*Time*	*Room No.*
ACCOUNTING				
ACC 202-1	*Principles of Accounting* Instructor: Staff Prerequisite: ACC 201. A study of basic accounting theory; corporate financing and reporting; financial planning; and an introduction to cost accounting.	(3)	8:00- 9:30	DEN 114
ACC 202-2	*Principles of Accounting* Instructor: Reed	(3)	10:00-11:30	DEN 114

Course No.	*Title*		*Time*	*Room No.*
ACC 202-L01	*Laboratory* M Instructor: Staff		2:30- 4:30	DEN 114
ACC 202-L02	*Laboratory* Tu Instructor: Reed		2:30- 4:30	DEN 114
ACC 371-1	*Cost Accounting* Instructor: Staff Prerequisite: ACC 202. A study of cost determination and control. Emphasis will be placed on managerial uses of cost accounting.	(3)	10:00-11:30	WINN 106
ACC 371-L01	*Laboratory* Tu Instructor: Staff		2:30- 4:30	WINN 106
ACC 375-1	*Intermediate Accounting II* Instructor: Drucker Prerequisite: ACC 374. A continuation of ACC 374 with an emphasis on accounting problems peculiar to corporate and partnership organization and governmental units.	(3)	10:00-11:30	WINN 109
ACC 375-L01	*Laboratory* W Instructor: Drucker		2:30- 4:30	WINN 106
ART				
ART 110-1	*Introduction to Art for Non-Art Majors* Instructor: Young An introduction to art history and appreciation covering basic concepts, aesthetic aims and social influences which characterize and differentiate one civilization or period from another.	(3)	10:00-11:30	ROWE 101
ART 310D-1	*Selected Topics in Art History* Instructor: Young Prerequisite for non-art majors: Art 110. Seminar in 20th Century American art.	(3)	12:30- 2:00	ROWE 101
ART 370-1	*Art Education for Non-Art Majors* Instructor: Mason Investigations for the various techniques of two- and three-dimensional media appropriate to the elementary school art program.	(3)	2:00- 4:30	ROWE 216
BIOLOGY				
BIO 203-1	*Bacteriology* Instructor: Darner Prerequisites: One semester of biology and one semester of chemistry. No credit toward a biology major. Basic physiology of bacteria and viruses, with emphasis on the pathogens and the epidemeology of microbial diseases.	(3)	12:30- 2:00	KNDY 107

Course No.	*Title*		*Time*	*Room No.*
BIO 203A-1	*Bacteriology* *Laboratory* TuWTh Instructor: Darner	(1)	2:10- 5:00	KNDY 215
BIO 211-1	*Plant Biology* Instructor: Matthews Prerequisite: Open to majors and non-majors; BIO 101 prerequisite for non-majors. The morphology, function, reproduction, phylogeny, and ecology of plants.	(4)	12:30- 2:00	KNDY 207
BIO 211-L01	*Laboratory* TuWTh Instructor: Matthews		2:10- 5:00	KNDY 201
BIO 301-1	*Natural History* Instructor: Hechenbleikner Prerequisite: Open to students in elementary education and to others with consent of department. No credit toward a biology major. Ecological aspects of plant and animal distribution, the importance of conservation of natural resources, and plant and animal identification.	(4)	12:30- 2:00	KNDY 120
BIO 301-L01	*Laboratory* TuWTh Instructor: Hechenbleikner		2:10- 5:00	KNDY 221
BIO 323-1	*Parasitology* Instructor: Visco Prerequisite: BIO 221. Morphology, life cycles, ecology, taxonomy, and economic importance of parasites.	(3)	12:30- 2:00	DEN 102
BIO 323A-1	*Parasitology* *Laboratory* TuWTh Instructor: Visco Prerequisite or corequisite: BIO 323.	(1)	2:10- 5:00	KNDY 220
BIO 484-1	*Radioisotope Techniques* Instructor: Menhinick Prerequisite: Two semesters of chemistry. Use of radioisotopes in science: properties of sub-atomic particles, instrumentation, safety procedures, and radioisotope labeling.	(4)	12:30- 2:00	KNDY 207
BIO 484-L01	*Laboratory* TuWTh Instructor: Menhinick		2:10- 5:00	KNDY 214
BIO 497-1	*Investigations in Biology* May be repeated for credit. Prerequisite: Permission of department. A course designed to allow the senior biology major to initiate a research project in his field of interest.	(1-4)	TBA	

Course No.	*Title*	*Time*	*Room No.*
BUSINESS ADMINISTRATION			
BUS 382-1	*Sales, Credit, and Security Transactions* (3) Instructor: Trosch The study of the Uniform Commercial Code. Subjects covered include sale of goods, commercial paper, bank deposits and collections, letters of credit, bulk transfers, documents of title, investment securities and secured transactions.	8:00- 9:30	DEN 117
BUS 382-2	*Sales, Credit, and Security Transactions* (3) Instructor: Trosch	10:00-11:30	DEN 117
BUS 400-1	*Industrial Management* (3) Instructor: Horton Prerequisite: ECO 202, ACC 202 and MAT 120. The principles underlying the solution of problems in organization and operation of industrial enterprises. Emphasis placed on the management functions of planning, organizing, actuating and controlling business activity.	8:00- 9:30	WINN 204
BUS 400-2	*Industrial Management* (3) Instructor: Horton	10:00-11:30	DEN 118
CHEMISTRY			
CHE 102-1	*Principles of Chemistry* (4) Instructor: DuBois Prerequisite: Chemistry 101. Continuation of Chemistry 101.	12:30- 2:00	DEN 109
CHE 102-L01	*Laboratory* TuWTh Instructor: DuBois	2:10- 5:00	KNDY 320
CHE 102-L02	*Laboratory* TuWTh Instructor: Staff	2:10- 5:00	KNDY 313
CHE 104-1	*General Chemistry* (4) Instructor: Gibson Designed primarily for non-science majors. Prerequisite: Chemistry 103. Continuation of Chemistry 103 including qualitative analysis.	12:30- 2:00	KNDY 309
CHE 104-L01	*Laboratory* TuWTh Instructor: Gibson	2:10- 5:00	KNDY 309
CHE 232-1	*Organic Chemistry* (4) Instructor: Burson Prerequisite: Chemistry 231. Continuation of Chemistry 231.	12:30- 2:00	DEN 103
CHE 232-L01	*Laboratory* TuWTh Instructor: Burson	2:10- 5:00	KNDY 310
CHE 232-L02	*Laboratory* TuWTh Instructor: Walsh	2:10- 5:00	KNDY 321

Course No.	*Title*	*Time*	*Room No.*

ECONOMICS

ECO 202-1	*Principles of Economics-Micro*	(3)	10:00-11:30	WINN 204

Instructor: Rogers

Topics considered include the operation of the pricing mechanism of a market economy, the industrial organization of our contemporary capitalistic economy, problems of economic concentration and of agriculture, the theory of income distribution, international economic relationships, and comparative economic systems.

ECO 202-2	*Principles of Economics-Micro*	(3)	12:30- 2:00	WINN 204

Instructor: Rogers

ECO 305-1	*Industrial Relations*	(3)	8:00- 9:30	DEN 102

Instructor: Williams

Prerequisite: ECO 202. Systematic analysis of the sociological, economic, and political forces affecting and affected by the work environment. Special emphasis on market structure, the small group, the legal environment, and union structure.

ECO 305-2	*Industrial Relations*	(3)	10:00-11:30	DEN 102

Instructor: Williams

ENGINEERING

EGR 102-1	*Introduction to Engineering Problems II*	(2)	8:00- 9:30	SMTH 228

Instructor: Norem

Prerequisite: EGR 101. A continuation of EGR 101. Further topics in computer programming; charts, graphs, and experimental curve fitting; development of drafting skills and techniques. Introduction to the engineering approach to problem solving.

EGR 252-1	*Basic Engineering Laboratory II*	(1)	2:00- 5:00	SMTH 326

MTuTh

Instructor: Davis

Prerequisite: EGR 251. Prerequisite or corequisite: MAT 271. Continuation of EGR 251, emphasizing use of digital and analog computer techniques. Lecture and laboratory hours to be arranged.

EGR 490-1	*Communication Theory I*	(3)	8:00- 9:30	SMTH 226

Instructor: Coleman

Prerequisite: EE 312. A study of information transmission and modulation systems. Transmission through electrical networks; analysis and comparison of modulation systems; sampling and noise.

Course No.	*Title*		*Time*	*Room No.*
EE 212-1	*Linear Analysis I*	(3)	12:30- 2:00	SMTH 227

Instructor: Smith

Prerequisite: EE 211. Prerequisite or corequisite: MAT 271. Formulation of equations and the investigation of the transient and steady state solution of these equations with step, pulse and sinusoidal driving functions using classical methods. The vector transform as an introduction to sinusoidal steady state. Sinusoidal steady state and frequency response of networks.

EM 212-1	*Engineering Mechanics II*	(3)	10:00-11:30	SMTH 203

Instructor: Crippen

Prerequisite: EM 211. Prerequisite or corequisite: MAT 271. The dynamics of systems of particles: impulse and momentum of a system of particles, moment of momentum, work and kinetic energy of a system of particles. Moments and products of inertia; principal moments of inertia and principal axes. The dynamics of rigid bodies. Euler's equations, work and energy equations of a rigid body, plane motion of a rigid body. Single degree of freedom vibrations.

EM 311-1	*Introduction to Solid Mechanics*	(3)	12:30- 2:00	SMTH 228

Instructor: Norem

Prerequisite: EM 211. The analysis of stresses resulting from the application of forces to deformable solid bodies and the mechanical behavior of materials resulting from these stresses. Stresses produced by axial loads, torsion, bending, and combinations of these are analyzed. Elastic and viscoelastic behavior, time and temperature effects upon properties and design applications are considered.

EM 312-1	*Introduction to Fluid Mechanics*	(3)	10:00-11:30	SMTH 228

Instructor: Kim

Prerequisites: ME 311, Math 271. A first course in fluid mechanics, introducing the basic concepts and fundamentals of both ideal and actual fluid flow. Topics covered include fluid statics, conservation principals, Bernoulli's equation, flow and control devices, hydrodynamics, fluid flow in pipes, and an introduction to compressible flow.

ET 370-1	*Basic Engineering Analysis*	(3)	10:00-11:30	SMTH 345

Instructor: Liu

Prerequisite: College algebra trigonometry, and analytic geometry. A course designed to give students intensive practice in the meth-

Course No.	Title		Time	Room No.
	ods of solving engineering problems which require a knowledge of algebra, determinants, trigonometry, analytic geometry, and vector algebra.			
ET 471-1	*Engineering Analysis II*	(3)	8:00- 9:30	SMTH 345
	Instructor: Grant A study of constant coefficient linear differential equations, including non-homogeneous equations; Laplace transforms and the use of Laplace transform tables; applications to the analysis of dynamic systems. An introduction to the analog computer and the simulation of physical systems. Prerequisite: ET 371.			
ENGLISH				
ENG 102-1	*English Composition*	(3)	12:30- 2:00	WINN 214
	Instructor: Boger Critical writing, collateral reading, and introduction to literary study.			
ENG 102-2	*English Composition*	(3)	10:00-11:30	WINN 214
	Instructor: Burne			
ENG 111-1	*Masterpieces of World Literature*	(3)	2:30- 4:00	WINN 214
	Instructor: Gatlin Readings in Greek, Latin, and Eastern works in translations.			
ENG 202-1	*English Literature*	(3)	2:30- 4:00	WINN 109
	Instructor: Boger Prerequisite: ENG 101 and 102. British literary masterpieces since 1700.			
ENG 202-2	*English Literature*	(3)	10:00-11:30	WINN 208
	Instructor: Hedges			
ENG 313-1	*Milton*	(3)	8:00- 9:30	WINN 106
	Instructor: McCall The major poems and selections from the minor works.			
*ENG 321-1	*The Earlier Seventeenth Century*	(3)	8:00- 9:30	WINN 202
	Instructor: Wallace Major writers from Bacon and Donne to the Restoration.			
ENG 323-1	*English Literature, 1660-1785*	(3)	12:30- 2:00	WINN 207
	Instructor: Wallace Poetry and prose from Dryden through Johnson; collateral readings in drama and the novel.			
ENG 326-1	*The Victorian Era to 1870*	(3)	10:00-11:30	WINN 209
	Instructor: Gatlin Emphasis on Tennyson, Robert Browning, Arnold, Carlyle, Ruskin, and Newman.			

**Open to Graduates and Undergraduates.*

Course No.	*Title*		*Time*	*Room No.*
ENG 350-1	*Topics in English* Instructor: Burne May be repeated for additional credit with approval of the department. Prerequisite: Consent of the department. This course is designed to offer special topics not included in other courses.	(3)	2:30- 4:00	WINN 202
ENG 612-1	*Shakespeare's Tragedies* Instructor: Moose Source materials, textual problems, and stage conventions of selected tragedies, chosen primarily from the period of the great tragedies, illustrating Shakespeare's dramaturgy.	(3)	12:30- 2:00	WINN 109
ENG 613-1	*Milton* Instructor: McCall The complete poetry and selections from the prose.	(3)	10:00-11:30	WINN 202
ENG 662-1	*Advanced Rhetoric* Instructor: Hedges Prerequisite: ENG 461 or permission of instructor. The fundamental principles of classical rhetoric and an intense examination of the governing principles of the "new" or descriptive rhetorics.	(3)	12:30- 2:00	WINN 202
FRENCH				
FRE 102-1	*Elementary French* Instructor: White Prerequisite: FRE 101, or permission of the department. Continuation of FRE 101.	(4)	12:30- 2:00	MACY 203
FRE 102-L01	*Laboratory* Instructor: White		10:00-11:00	MACY 106
FRE 202-1	*Intermediate French* Instructor: Slechta Prerequisite: FRE 201, or permission of the department. Review of grammar, composition, and conversation, based upon readings in French prose.	(4)	8:00- 9:30	MACY 203
FRE 202-L01	*Laboratory* Instructor: Slechta		10:00-11:00	MACY 106
FRE 302-1	*Advanced French Grammar, Composition, and Conversation II* Instructor: Slechta Prerequisite: FRE 202, or permission of the department. Informal conversation on diversified prepared topics, newspaper and magazine articles. Students will be given maximum opportunity for self-expression. Book reports on collateral readings.	(3)	2:00- 3:30	MACY 203

Course No.	*Title*		*Time*	*Room No.*
FRE 408-1	*The Seventeenth Century* Instructor: Bush Prerequisite: FRE 303 or permission of the department. Study of Pre-Classical and Classical trends in 17th Century French Literature. Emphasis on the work of major writers of the period: Descartes, Pascal, Corneille, Moliere, Racine, La Fontaine, Boileau, and Mme de Lafayette. Outside readings and reports.	(3)	2:00- 3:30	MACY 204
GEOGRAPHY				
GGY 102-1	*World Regional Geography* Instructor: Orr A world regional study which emphasizes the distinctly human responses of man to various geographic situations throughout the world. The nature and development of cultural regions will be studied.	(3)	10:00-11:30	SMTH 217
GGY 201-1	*Economic Geography* Instructor: Lord A study of the location and functioning of economic activity with an emphasis on physical and human geographic factors in analyzing patterns of production, exchange, and consumption.	(3)	8:00- 9:30	SMTH 218
*GGY 305-1	*Geography of Europe* Instructor: Orr A regional study of geographic conditions and their relationship to economic, social and political problems of Europe.	(3)	8:00- 9:30	SMTH 217
*GGY 312-1	*Urban Geography* Instructor: Stuart A study of the distribution, internal structure and functions of various types of urban developments.	(3)	10:00-11:30	SMTH 218
*GGY 316-1	*Geography of Tertiary Activity* Instructor: Lord A study of the spacial attributes of retail and wholesale activities, service facilities, and financial establishments. Emphasis upon location research and delineation of trade and service areas.	(3)	12:30- 2:00	SMTH 217
*GGY 344-1	*Weather and Climate* Instructor: Bedford A study of the elements and controls of weather and climate; world patterns of climate; and the relationship of climate to man's activity.	(3)	12:30- 2:00	SMTH 347

**Open to Graduates and Undergraduates.*

Course No.	*Title*		*Time*	*Room No.*
*GGY 450-1	*Special Problems in Geography* Instructor: Staff	(1)	ARRAN	
*GGY 450-2	*Special Problems in Geography* Instructor: Staff	(2)	ARRAN	
*GGY 450-3	*Special Problems in Geography* Instructor: Staff	(3)	ARRAN	
*GGY 450-4	*Special Problems in Geography* Instructor: Staff Permissions of the department must be obtained and credit hours established in advance. May be repeated for credit. Tutorial study or special research problems.	(4)	ARRAN	
GERMAN				
GER 102-1	*Elementary German* Instructor: Merrill Prerequisite: GER 101 or permission of the department. Continuation of GER 101.	(4)	8:00- 9:30	MACY 205
GER 102-L01	*Laboratory* Instructor: Merrill		10:00-11:00	MACY 106
GER 202-1	*Intermediate German* Instructor: Merrill Prerequisite: GER 201 or permission of the department. Continuation of GER 201. Review grammar, composition, and conversation, based upon readings in German prose.	(4)	12:30- 2:00	MACY 205
GER 202-L01	*Laboratory* Instructor: Merrill		10:00-11:00	MACY 106
HEALTH AND PHYSICAL EDUCATION				
PED 110-1	*Beginning Swimming* Instructor: Alder Designed to teach weak or non-swimmers a basic stroke and safe entry into and exit from the water.	(1)	1:00- 2:30	PE 227 Pool
PED 120-1	*Beginning Tennis* Instructor: Kingery The rules, history, basic skills and basic strategy.	(1)	1:00- 2:30	PE 222 Courts
PED 123-1	*Beginning Badminton* Instructor: Bostian The rules, history, basic skills, basic strategy.	(1)	11:30- 1:00	PE 222 Gym
PED 140-1	*Beginning Golf* Instructor: Avant The grip, stance, stroke, use and selection of clubs, history, rules, and etiquette.	(1)	10:00-11:30	PE 222 Field

**Open to Graduates and Undergraduates*

Course No.	*Title*		*Time*	*Room No.*
PED 160-1	*Gymnastics* Instructor: Garcia Single and combinations of stunts on the side horse, horizontal bar, parallel bars, uneven parallel bars, still rings, balance beam, trampoline, and tumbling mats are taught. Emphasis is placed on fundamentals so the student can exercise creativity in constructing routines.	(1)	1:00- 3:00	PE 227 Gym
PED 300-1	*Movement Foundations* Instructor: Murphy Biophysical, psychological and sociological factors of human movement as they relate to the education of pre-school and elementary school children.	(4)	1:00- 2:30	PE 229
PED 300-L01	*Movement Foundations Laboratory* Instructor: Murphy		10:00-11:30	PE Gym
HED 101-1	*Health Education* (M-Th) Instructor: Alder A general introductory course. Basic ideas of anatomy, physiology, and chemistry are applied toward an understanding of human health problems.	(1)	10:00-11:30	PE 227
HISTORY				
HIS 101-1	*Modern Western Civilization to 1815* Instructor: Dunkley This course commences with broad survey of ancient and medieval contributions to modern Western civilization and then treats intensively the development of Western civilization from the Renaissance to 1815.	(3)	10:00-11:30	DEN 103
HIS 102-1	*Modern Western Civilization from 1815 to Present* Instructor: Warren Continuation of History 101 with greater emphasis on developments outside the Atlantic community of Western civilization.	(3)	8:00- 9:30	DEN 103
HIS 103-1	*American History I* Instructor: Warren Survey of American history from the earliest times to 1865.	(3)	12:30- 2:00	DEN 105
HIS 104-1	*American History II* Instructor: Perzel Survey of American history from 1865 to present.	(3)	10:00-11:30	DEN 105
HIS 311-1	*Russian History from Earliest Times to 1810* Instructor: Morrill	(3)	10:00-11:30	DEN 106

Course No.	Title		Time	Room No.
	A survey of the development of the Russian people, focusing upon the rise and fall of Kievan state, the impact of the period of Tartar domination, the rise of Muscovy, and the growth of Tsarist autocracy before the reign of Alexander I.			
HIS 331-1	*France, 1300-1787*	(3)	8:00- 9:30	DEN 106
	Instructor: Dunkley			
	The evolution and failure of the French monarchy.			
HIS 361-1	*Britain to 1485*	(3)	10:00-11:30	DEN 115
	Instructor: Abernathy			
	Survey of British history with emphasis on institutional, cultural, economic, and imperial developments.			
HIS 372-1	*The American Revolution and Early Nation*	(3)	12:30- 2:00	DEN 106
	Instructor: Perzel			
	The achievement of independence and the formation of a national government, 1763-1800.			
HIS 650-1	*Victorian England*	(3)	2:30- 4:00	DEN 102
	Instructor: Abernathy			
	An examination of the forces and ideas which produced a radical transformation of British institutions and society during the age of Queen Victoria .			
HIS 694-1	*Readings in History*	(3)	12:30- 2:00	DEN 114
	Instructor: Morrill			
	Coverage of historical periods or topics through individually designed reading programs; scheduled conferences with a staff member. (May be repeated for credit.)			

HUMAN DEVELOPMENT AND LEARNING

Teacher education and other programs in human development and most professional certification guidelines require professional study in at least four areas:

1. Explorations in Human Potential (Social, Philosophical, and Psychological Foundations)
2. Meaning and Growth in Teaching/Learning Experiences (Curriculum and Instruction)
3. The Helping Relationship (Guidance, Group Relationships, Administration, and Supervision)
4. Experience and Commitment in Human Learning and Development (Clinical Experiences)

Therefore, to assist the student in selecting courses to meet requirements in each professional area, courses are listed by areas. Courses numbered below 500 are designed for undergraduate credit, 500 level courses are designed for graduates and advanced undergraduates. Courses for graduates are listed as 600 level courses.

Course No.	*Title*		*Time*	*Room No.*
	1. Explorations in Human Potential			
HDL 201-1	*Introductory Explorations in Human Potential* Instructor: Armstrong An introductory course in the philosophical foundation of the educative process designed to explore the nature of man, and human potential in relation to one's system of beliefs, values, and relationships. Emphasis is given to the analysis and development of the student's beliefs, his personhood, and to his role in relationships. Clinical experiences are provided to introduce the student to teaching/learning relationships and to a sociological orientation of growth and the school in modern society. Open to freshmen.	(3)	8:00- 9:30	WINN 209
HDL 201-2	*Introductory Explorations in Human Potential* Instructor: Rollins	(3)	12:30- 2:00	DLTN 31
	2. Meaning and Growth in Teaching/ Learning Relationships			

Course No.	*Title*		*Time*	*Room No.*
HDL 303-1	*Elementary Education I: Organization and Curriculum* Instructor: Sadoff A course designed to develop an understanding of the curriculum of the elementary school. Emphasis is placed on the role of the teacher in the design, organization and administration of the elementary school. Major consideration is given to approaches to instructional organization such as multi-age grouping and team teaching as they relate to the curriculum. Prerequisites: HDL 201, PSY 202.	(3)	10:00-11:30	SMTH 306
HDL 620-1	*Curriculum Theory*		12:30- 2:00	
	A. Meaning and Growth Instructor: Armstrong	(3)		BRND 104
	B. Creativity and Experiences Instructor: Sadoff	(3)		BRND 108
	C. Strategies and Designs	(3)		DEN 115
	Instructor: Maxwell A study of the determinants of curriculum as they relate to facilitation of the transition from theory to practice. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. Meaning and Growth, B. Creativity and Experiences, and C. Strategies and Designs. Emphasis is placed on research and experimentation in the development of theory, processes, materials, and relationships in curriculum design.			

3. The Helping Relationship

HDL 663-1	*Developmental Approaches to the Theory and Practice of Guidance* Instructor: Staff A study of guidance and counseling as a developmental concept with emphasis upon the philosophical, social, and psychological bases for the helping relationship. Experiences are provided to facilitate the necessary competencies—self-analysis, value judgments, and the creation of relationships needed to facilitate the growth of others toward personhood.	(3)	10:00-11:30	DEN 216

4. Experience and Commitment in Human Development and Learning

Course No.	Title		Time	Room No.
HDL 570-1	*Selected Topics in Human Development and Learning* A. Living/Learning Styles Instructor: Staff Prerequisite: HDL 201 and permission of the College of Human Development and Learning. Topics and special problems chosen in relation to human learning, ideas, practices, significant movements, or detailed study of models for human learning. Seminars, independent study and clinical experiences. May be repeated for credit with approval.	(3)	TBA	ATK 317
HDL 672-1	*Problems in Human Development and Learning* Instructor: Staff Prerequisite: Permission of the College of Human Development and Learning. Designed to permit students to conduct action research on selected problems, guided readings, research, and individual project work under the direction of a staff member. This course may be repeated for credit with the approval of the College of Human Development and Learning.	(3-6)	TBA	ATK 317
MATHEMATICS				
MAT 104-1	*Linear Geometry* Instructor: Basavappa Prerequisite or corequisite: MAT 103. Algebra and geometry of vectors, a vector approach to trigonometry, vector descriptions of lines and planes; matrix representation of linear transformations; range and kernel of a linear transformation.	(3)	10:00-11:30	BRND 106
MAT 120-1	*Calculus* Instructor: Nabors Prerequisite: Mat 101 or 103. A brief treatment of basic concepts of differential and integral calculus with applications to business and to the social aid life sciences; an introduction to the elements of probability. Sample spaces, events, probability of an event, conditional probability, independent events.	(3)	8:00- 9:30	BRND 105
MAT 120-2	*Calculus* Instructor: Porterfield	(3)	10:00-11:30	BRND 105
MAT 120-3	*Calculus* Instructor: Staff	(3)	12:30- 2:00	BRND 105
MAT 120-N	*Calculus* Instructor: Staff	(3)	6:00- 7:30	BRND 105

Course No.	Title		Time	Room No.
MAT 122-1	*Elements of Statistics* Instructor: Pyles	(3)	8:00- 9:20	BRND 108
	Prerequisite: MAT 101 or MAT 103. An introduction to the principles of statistical measures and hypothesis testing. Mean, variance, standard deviation; confidence intervals; binomial and normal distributions; contingency tables, chi-square test; nonparametric tests including the sign test and rank sum test, the t-test; linear regression, correlation and introduction to analysis of variance and multiple regression. Assignments will involve the use of "canned" programs on the University computer.			
MAT 122-2	*Elements of Statistics* Instructor: Pyles	(3)	10:00-11:30	BRND 108
MAT 122-N	*Elements of Statistics* Instructor: Staff	(3)	7:40- 9:10	BRND 105
MAT 144-1	*Integral Calculus I* Instructor: Porterfield	(3)	8:00- 9:30	BRND 104
	Prerequisite: MAT 143 with a grade of *C* or better. The Riemann integral of $R \rightarrow R$ functions; primitives and anti-derivatives; methods of integration; special functions; the integral of $R \rightarrow R^n$ functions: arc length; volumes and surfaces of revolution; work; total force.			
MAT 144-N	*Integral Calculus I* Instructor: Staff	(3)	7:40- 9:10	BRND 104
MAT 271-1	*Differential Equations* Instructor: Staff	(3)	10:00-11:30	BRND 104
	Prerequisite: MAT 144 with a grade of *C* or better. An introduction to the study of differential equations; first order equations; general theory of ordinary linear differential equations; Laplace transform.			
MAT 350-1	*Finite Projective Geometry* Instructor: Basavappa	(3)	8:00- 9:30	BRND 106
	Prerequisite: Consent of the department. Includes a study of finite fields, vector spaces over finite fields, and finite projective geometrics. Applications to statistical design will also be treated.			
MAT 362-1	*Number Theory* Instructor: Hedstrom	(3)	12:30- 2:00	BRND 106
	Prerequisite: Consent of the department. Introductory topics from the theory of rational and algebraic integers.			

Course No.	*Title*		*Time*	*Room No.*
CSC 100-1	*Algorithmic Languages I* Instructor: Nabors Prerequisite: MAT 101 or 103. An introduction to digital computing techniques through the study of Fortran IV. Various numerical and nonnumerical algorithms will be studied, flow-charted, programmed and documented. Concepts such as computer hardware, computer application areas, etc., will be introduced when appropriate.	(3)	10:00-11:30	SMTH 229
CSC 100-2	*Algorithmic Languages I* Instructor: Staff	(3)	12:30- 2:00	SMTH 229
CSC 350-1	*Error in Arithmetic Machine Computation* Instructor: Lover Prerequisite: Junior standing, differential and integral calculus and Fortran programming. (For instance MAT 120 and CSC 100 or MAT 143, 144 and CSC 100.) A survey of the kinds, sources, evaluation, control of error in numerical computation. Special emphasis will be given to problems associated with doing arithmetic computations on digital computers.	(3)	12:30- 2:00	SMTH 218
MUSIC				
MUS 051L-8	*Piano* Instructor: Booth	(1)	TBA	ROWE 274
MUS 051P-5	*Voice* Instructor: Dailey	(1)	TBA	ROWE 258
MUS 207-1	*Introduction to Music Literature* Instructor: Booth The development of resources for the aural exploration of music through emphasis on stylistic characteristics and the evolution of musical forms, and the interrelationship of music with other cultural influences.	(3)	1:00- 2:30	ROWE 115
MUS 307-1	*Music for Elementary School Teachers* Instructor: Dailey Prerequisite or corequisite: HDL 303. Methods and materials of instruction which the teacher can apply in a music program in the elementary school.	(3)	10:00-11:30	ROWE 125
NURSING				
NUR 202-1	*Fundamentals of Nursing II* Instructor: Carlton A continuation of NUR 201. One hour lecture and three hours of laboratory work each day. (Laboratory sessions are held in Charlotte Memorial Hospital. Students will wear their nurse uniforms.)	(4)	7:30-12:00	

Course No.	*Title*	*Time*	*Room No.*
PHILOSOPHY			
PHI 205-1	*Introduction to Logic and Scientific Method* (3) Instructor: Presler An introduction to the study of the general principles of deductive logic, both classical and symbolic, and an introduction to the nature of inductive reasoning and scientific explanation.	8:00 9:30	DEN 216
PHYSICS			
PHY 102-N	*Introductory Physics II* (4) Instructor: Oberhofer Prerequisite: PHY 101. A continuation of PHY 101.	6:00- 7:30	KNDY 107
PHY 102-L01	*Laboratory* TuWTh Instructor: Oberhofer	2:10- 5:00	KNDY 113
PHY 102-LN	*Laboratory* TuWTh Instructor: Mayes	7:40-10:30	KNDY 113
PHY 231-1	*Electricity and Magnetism* (3) Instructor: Staff Prerequisites: PHY 221 or 222; MAT 244. Electric and magnetic fields in free space and in matter; electrostatic potential and capacitance; elementary circuit theory; electromagnetic induction and inductance; introduction to Maxwell's equations.	12:30- 2:00	SMTH 301
POLITICAL SCIENCE			
PSC 201-1	*Introduction to American Politics* (3) Instructor: McCoy Role of the President, Congress, Supreme Court and national administrative agencies in the American political system. Relationship between the American people and their political institutions with emphasis upon political culture, the electoral process, interest groups, political communication, and the international commitments of the United States.	8:00- 9:30	BRND 101
PSC 201-2	*Introduction to American Politics* (3) Instructor: McCoy	10:00-11:30	BRND 101
PSC 203-1	*Introduction to International Politics* (3) Instructor: Backman Analysis of politics among nations: material and psychological sources of national power, the role of law, force, and diplomacy in world politics, problems of peace and disarmament, and international organizations.	10:00-11:30	BRND 102

Course No.	*Title*		*Time*	*Room No.*
PSC 203-2	*Introduction to International Politics* Instructor: Jamgotch	(3)	12:30- 2:00	BRND 101
PSC 321-1	*Urban Politics* Instructor: Lyons Analysis of the political process in the nation's metropolitan areas and the adjustments and responses of the U.S. government system in attempting to cope with the urban crisis.	(3)	12:30- 2:00	BRND 102
PSC 335-1	*Political Violence* Instructor: Backman The emphasis of this course, while drawing on examples from contemporary American and foreign scenes, is on examining manifestations of violent political behavior, such as pathological violence, conspiritorial violence, collective violence, and governmental violence.	(3)	8:00- 9:30	DEN 105
*PSC 359-1	*Soviet Foreign Policy* Instructor: Jamgotch The concepts, content, and evolution of Soviet foreign relations, with emphasis upon change and continuity in Russian and Soviet policies. Contemporary problems of Soviet diplomacy with other world powers and with the Marxist-Leninist nations of the Communist international system.	(3)	10:00-11:30	DEN 215
PSYCHOLOGY				
PSY 201-1	*General Psychology* Instructor: Sohn Survey of general psychology as a behavioral science.	(4)	10:00-11:30	WINN 211
PSY 201-L01	*Laboratory* MW Instructor: Talbutt		1:00- 3:50	WINN 107
PSY 201-L02	*Laboratory* TuTh Instructor: Talbutt		1:00- 3:50	WINN 107
PSY 202-1	*Educational Psychology* Instructor: Puttick PSY 201 is suggested prerequisite. The psychology of learning; problems related to concept formation and application of behavior modification techniques to the classroom.	(3)	12:30- 2:00	WINN 205

**Open to Graduates and Undergraduates.*

Course No.	*Title*		*Time*	*Room No.*
PSY 301-1	*Child Psychology* Instructor: Fernald Prerequisite: PSY 201. Remedial measures suggested in dealing with early child tendencies which might lead to serious school and personality difficulties. Operant and respondent learning, imitation and language development.	(3)	10:00-11:30	WINN 205
PSY 302-1	*Adolescent Psychology* Instructor: Fernald Prerequisite: PSY 201. Developmental and psychological characteristics of adolescence. Research methods and familiarity in case study emphasized. School and personality problems studied.	(3)	8:00- 9:30	WINN 109
PSY 307-N	*Abnormal Psychology* Instructor: Karras Prerequisite: PSY 201. A history of psychopathology. Case studies, differential diagnosis, psychological dynamics of abnormal behavior, including theoretical, clinical, and experimental contributions in the field.	(3)	6:00- 7:30	WINN 109
PSY 310-1	*Comparative Psychology* Instructor: Grimsley Prerequisite: PSY 201. An introduction to the study of animal and human behavior from a comparative point of view. Emphasis on the classification of behavior patterns as well as the origin and development of these patterns.	(3)	10:00-11:30	WINN 206
PSY 341-1	*Experimental Psychology: Learning and Motivation* Instructor: Sohn Prerequisites: MAT 122 and PSY 201. History of the experimental approach to motivation and learning theory, current issues and controversy. Emphasis on laboratory problems.	(4)	12:30- 2:00	WINN 208
PSY 341-L01	*Laboratory* TuTh Instructor: Sohn		2:10- 5:00	WINN 112
*PSY 504-1	*Tests and Measurements* Instructor: Windholz Prerequisite: PSY 201. A survey of psychological and educational measurements in current use. Emphasis will be placed on structure, administration, and application of group tests. Individual tests such as Stanford Binet, WISC, and WAIS will be reviewed.	(3)	10:00-11:30	WINN 207

**Open to Graduates and Undergraduates.*

Course No.	*Title*		*Time*	*Room No.*
*PSY 514-1	*Methods of Student Evaluation* Instructor: Windholz A practical course of construction of teacher-made evaluation procedures. Special emphasis will be placed on writing and item-analysis of essay and restricted-response achievement tests.	(3)	12:30- 2:00	WINN 206
RELIGION				
REL 202-1	*Survey of the New Testament* Instructor: Witherspoon An introduction to the literature of the New Testament in light of its literary and historical background.	(3)	8:00- 9:30	DEN 215
REL 302-1	*The Writings of Paul* Instructor: Witherspoon A detailed analysis of the Pauline corpus. Particular reference is made to the occasion, purpose, and the theological and ethical significance of each letter.	(3)	2:30- 4:00	DEN 215
RUSSIAN				
RUS 102-1	*Elementary Russian* Instructor: Saman Prerequisite: RUS 101. Continuation of RUS 101. Graded readings.	(4)	8:00- 9:30	MACY 206
RUS 102-L01	*Laboratory* Instructor: Saman		11:00-12:00	MACY 106
RUS 202-1	*Intermediate Russian* Instructor: Saman Prerequisite: RUS 201 or permission of the department. Continuation of grammar, conversation, and composition skills, based on readings in Russian literature.	(4)	12:30- 2:00	MACY 206
RUS 202-L01	*Laboratory* Instructor: Saman		11:00-12:00	MACY 106
SOCIOLOGY				
SOC 151-1	*Introduction to Sociology I* Instructor: Frye Introduction to sociology as a discipline, the sociological perspective, and the process of sociological inquiry emphasizing fundamental concepts, principles, and procedures.	(3)	8:00- 9:30	DEN 203
SOC 151-2	*Introduction to Sociology I* Instructor: Wheaton	(3)	10:00-11:30	DEN 203

**Open to Graduates and Undergraduates.*

Course No.	*Title*		*Time*	*Room No.*
SOC 211-1	*Sub-Saharan African Ethnography* Instructor: Ferraro Prerequisite: SOC 203. Examination of traditional social and cultural institutions among African peoples south of the Sahara with particular emphasis on the analysis of traditional economic, political, religious, and kinship institutions and their structural implications for change.	(3)	10:00-11:30	DEN 213
SOC 310-1	*American Minority Groups* Instructor: Wheaton Prerequisite: SOC 151. Analysis of the relations between dominant and minority groups in American society with special emphasis on the establishment, maintenance, and decline of dominance involving racial, ethnic, and religious minorities.	(3)	12:30- 2:00	WINN 106
*SOC 355-1	*Sociological Inquiry II: Methods of Verification* Instructor: Lance Prerequisite: SOC 354 and three semester hours of statistics, or consent of the instructor. Examination and application of research principles and techniques for the verification of sociological propositions, including the formulation of the problem, the design of the research, and the collection, analysis and interpretation of the data.	(4)	10:00-11:30	WINN 203
*SOC 355-L01	*Laboratory* TuTh Instructor: Lance		12:30- 2:30	WINN 203
*SOC 490b-1	*Seminar Cultural Anthropology* Instructor: Ferraro Prerequisite: Consent of the department.	(3)	8:00- 9:30	WINN 216
*SOC 490c-1	*Seminar Role Theory* Instructor: Goodnight Prerequisite: Consent of the department.	(3)	10:00-11:30	WINN 216
SPANISH				
SPA 102-1	*Elementary Spanish* Instructor: Staff Continuation of SPA 101, with greater attention to reading and writing.	(4)	8:00- 9:30	MACY 208
SPA 102-L01	*Laboratory* Instructor: Staff		11:00-12:00	MACY 106

**Open to Graduates and Undergraduates.*

Course No.	*Title*		*Time*	*Room No.*
SPA 202-1	*Intermediate Spanish* Instructor: McLeod Prerequisite: SPA 201 or permission of department. Continuation of SPA 201. Extensive practice in oral and written control of the language on basis of readings from Spanish or Spanish-American literature.	(4)	12:30- 2:00	MACY 208
SPA 202-L01	*Laboratory* Instructor: McLeod		11:00-12:00	MACY 106
SPA 492-1	*Selected Readings in Spanish* Instructor: McLeod Prerequisite: Two 300-level courses or permission of department. Consideration in depth of a predetermined author or literary movement. Course conducted in Spanish.	(3)	2:30- 4:00	MACY 208
SPEECH				
STH 101-1	*Fundamentals of Speech* Instructor: Training in voice and diction to develop effective delivery. The composition and presentation of speeches.	(3)	10:00-11:30	ROWE 134
STH 101-2	*Fundamentals of Speech* Instructor:	(3)	2:00- 3:30	ROWE 134

Exam Schedule for Second Summer Session

If Class Meeting Time Is:	*The Examination Will Be:*
8:00	8:00 to 11:00, Wednesday, August 16
10:00	8:00 to 11:00, Thursday, August 17
12:30	12:30 to 3:30, Wednesday, August 16
1:30-2:00-2:30	12:30 to 3:30, Thursday, August 17
6:00	6:00 to 9:00, Wednesday, August 16
7:30-7:40	6:00 to 9:00, Thursday, August 17

NOTES

THE UNIVERSITY OF NORTH CAROLINA
AT CHARLOTTE

UNCC STATION
CHARLOTTE, NORTH CAROLINA 28213

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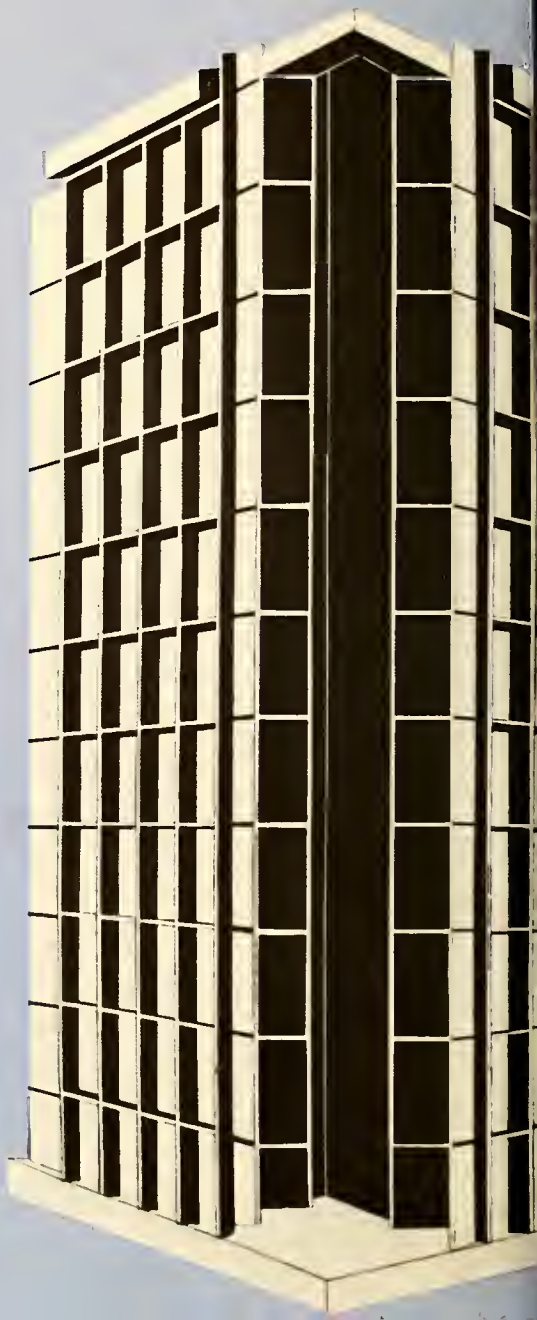
Permit No



UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

SUMMER SESSION 1973

The University of North Carolina at Charlotte seeks participants for all its programs from people of all races, creeds, and national origins.

THE UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

Summer Session Application for Transient, Special, and Non-Degree Students

Instructions: Mail completed application to Director of Summer Sessions, University of North Carolina at Charlotte, UNCC Station, Charlotte, North Carolina 28213.

Spacing in Squares: Please print one letter or one number to a square. Leave one blank between words. Abbreviate as necessary to stay within the allotted number of squares.

PLEASE CHECK TYPE OF ADMISSION: Undergraduate ☐ Graduate ☐

0 1 A

1

1. Social Security Number ☐☐☐ ☐☐ ☐☐☐☐ (4)

Your Full Name (*Last Name First*) (12)

2. Name ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ (33)

3. Sex ☐ (13) (34) M = Male F = Female

4. Marital Status ☐ (35) M = Married S = Single P = Separated W = Widowed D = Divorced

5. Citizenship ☐ (40) Y = U. S. Citizen N = Not a U.S. Citizen

6. Birthday ☐☐ (42) ☐☐ ☐☐ (47) Example: July 9, 1954 0 7 0 9 5 4

O 3

1

7. Home Mailing Address. Do not use institutional address.

☐☐☐ (13–43)

Number and Street

City and State *ZIP Code*

☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ (48–68) ☐☐☐☐☐ (69–73)

Office Use

☐☐☐☐ (44 45 47)

8. Home Telephone Number ☐☐☐ ☐☐☐☐ (*Do not punch*) Area Code ☐☐☐

0 6

1

9. Are you a legal resident of North Carolina for tuition purposes? (Consult "Residence Status" in the Summer Session Catalog for explanation of North Carolina law governing residence.)

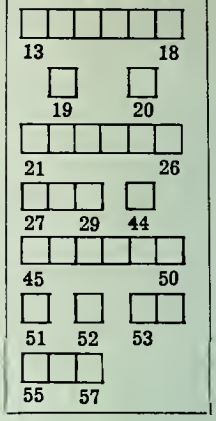
☐ Y = Yes N = No

10. In what county is your permanent residence? (Enter COUNTRY if not a U.S. Citizen.)

11. Proposed Term of Entrance

- ☐ First Summer Term
- ☐ Second Summer Term
- ☐ Third Summer Term

Do Not Write



12. Prior College Experience — (Include UNCC)

Attended					*Eligible to Return*	
From	*To*	*Institution*	*Hours Earned*	*Name of Degree If Grad.*	*Yes*	*No*

Certificate

I certifiy that the information supplied herein is true and accurate.

Signature _____

Date _____

THIS APPLICATION IS FOR THE 1973 SUMMER TERMS ONLY. APPLICATION TO REGULAR ACADEMIC YEAR MUST BE FILED IN ADDITION.

The University of North Carolina at Charlotte

Summer Session

1973

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CALENDAR—Summer Session 1973

Application Dates

Applications are expected to be submitted and completed according to the following schedule:

	Term of Entry		
	First Summer Session	**Second Summer Session**	**Third Summer Session**
Application Filed By	May 1	May 15	June 15
Application Completed By	May 15	May 25	July 1
Graduate Applications			
Filed By	April 15	April 30	May 15
Completed By	May 1	May 15	June 1

The University may alter these application dates in accordance with available resources and enrollment limitations established by the North Carolina General Assembly.

First Summer Term

June 3	Sunday	Residence halls open
June 4	Monday	Registration (last day to register without a late penalty of $5.00)
June 5	Tuesday	Classes begin
June 6	Wednesday	Last day to register or add a course
June 7	Thursday	Last day to withdraw (or drop a course) with refund
June 11	Monday	Last day to drop a course without grade evaluation
June 25-27	Monday-Wednesday	Advising and pre-registration for third summer session
July 6	Friday	Last day of classes
July 9-10	Monday-Tuesday	Final examinations

Second Summer Term

June 15	Friday	Registration (last day to register without a late penalty of $5.00) Residence halls open to new students
June 18	Monday	Classes begin
June 19	Tuesday	Last day to register or add a course
June 20	Wednesday	Last day to withdraw (or drop a course) with refund
June 22	Friday	Last day to drop a course without grade evaluation
July 25	Wednesday	Last day of classes
July 26-27	Thursday-Friday	Final examinations

Third Summer Term

July 11	Wednesday	Registration (last day to register without a late penalty of $5.00) Residence halls open to new students
July 12	Thursday	Classes begin
July 13	Friday	Last day to register or add a course
July 16	Monday	Last day to withdraw (or drop a course) with refund
July 19	Thursday	Last day to drop a course without grade evaluation
August 14	Tuesday	Last day of classes for third term
August 15-16	Wednesday-Thursday	Final examinations for third term

General Information

The summer session is designed to allow regular students an opportuntiy to accelerate their college work or to make up deficiencies, to encourage new students to begin their college careers early, to furnish teachers an opportunity to renew their certificates or broaden their general knowledge and skills, and to provide opportunities for persons with specific interests to attend college for short periods of time. The University offers three six-weeks sessions. The second session begins while the first is under way and ends after the third session has begun. Some short term courses will be offered at the completion of the second six-weeks term allowing students to pick up additional credit. Classes for all six-weeks terms meet five times a week unless otherwise designated.

Grading

Undergraduate:

Reports at the end of each term will be based upon the following grading system:

A Excellent
B Good
C Fair
D Passes
F Failed
I Incomplete
W Official Withdrawal

Graduate:

A Commendable
B Satisfactory
C Marginal
U Unsatisfactory (Unsatisfactory work or withdrew while doing marginal or unsatisfactory work)
I Incomplete
W Withdrew (Withdrew while doing satisfactory or commendable work)

Attendance

Regular attendance in all classes is required.

Courses Offered

NOTE: Please Read With Care.

(1) The administration reserves the right to withdraw courses with insufficient enrollment. Courses may be added if there is sufficient demand.

(2) Semester hour credits for each course are given in parentheses following the name of the course. An N after the course number indicates the course is taught at night. All 500 numbered courses and courses marked with an asterisk are open to graduates and undergraduates; all 600 numbered courses are graduate only.

(3) A three semester hour course in the summer requires three times the daily pace as one during the regular semester. It is expected that each student register for not more than seven semester hours of credit per term.

(4) Classes meet daily, Monday through Friday, except where specified to the contrary.

(5) Abbreviations used to refer to buildings:

ATK—Atkins Library	BRND—Barnard
DLTN—Dalton Tower	DEN—Denny
KNDY—Kennedy	MACY—Macy
MEM—Memorial Hospital	PE—Physical Education
ROWE—Rowe	SMTH—Smith
	WINN—Winningham

Library

The University library will be open for the use of students from 8:00 a.m. to 11:00 p.m., Monday through Friday; 9:00 a.m. to 5:00 p.m., Saturday; and 2:00 p.m. to 11:00 p.m. on Sunday.

Use of Gym in Summer

All full-time and part-time students may use the recreational spaces in the gymnasium without additional charge. The student's summer school I.D. card will gain him entry into the facility. During unorganized physical recreational periods, facilities will be used on a first come, first served basis. Participants should follow the rules of sports etiquette in regard to those waiting.

If a student wishes to have a locker, laundry service, etc., he can acquire them by paying a fee of $3.00 per summer session at the Business Office. The fee for those taking a course in physical education is $6.00.

Counseling Center

The University Counseling Center, 116 Reese Building, is a psychological service available at no cost to the University community. Staffed by professionally trained counselors and psychologists, the service is designed to assist individuals in developing a more effective and satisfactory adjustment in college life. Individual counseling is conducted in a private setting

and is a confidential relationship between the professional counselor and the individual.

Individuals may receive assistance in resolving personal problems, exploring educational and vocational goals, and developing more effective reading and study skills. Consultation services are available to University groups and agencies.

Professional staff from the Center organizes and conducts groups consisting of from ten to twelve members. Individuals tend to seek participation in such groups in order to find something out about themselves and how they relate to others in a group setting. Such groups usually meet for a period of one and one-half hours on a weekly basis for as long as the group membership determines.

The Counseling Center has a wide range of reference materials available for individuals who use such information in making educational and occupational decisions. Graduate and undergraduate catalogs are available as well as a wide range of materials on such things as specific occupations, reading and study skills, and information on personal growth and development.

Placement Service

The Placement Office, located in Room 01, Atkins Library, serves undergraduates, graduate students, graduating students, and alumni by assisting them in developing their career objectives and in obtaining employment. In so doing, the Placement Office provides counseling and guidance in careers and in job selection and analysis; assists students in the development of interviewing techniques and maintains, for student browsing, files of information on prospective employers, school systems, graduate schools and careers.

Students who wish to earn part of their educational expenses or to gain work experience may register for part-time, full-time, or summer employment off campus. Every effort is made to assist the student who expresses a need for employment and, where possible, to place him in a position relating to his vocational goal.

Degree candidates register with the Placement Office on a voluntary basis early in their graduating year. This enables them to have interviews with on-campus recruiters from business, industry, governmental agencies, and educational systems. Some graduate schools also send representatives to the campus. The credentials filed by graduating students are retained on a permanent basis.

The Placement Office is open from 8:00 a.m. until 5:00 p.m., Monday through Friday.

The University Center

The Center is the community center for all members of the University family—students, faculty, administration, staff, alumni, and guests. The Center provides for the services, conveniences, and amenities needed in the daily life of members of the University family. It houses the cafeteria, games room, lounge-gallery area, a large multi-purpose room, meeting rooms, offices for student government and the major publications, and an information center.

Time Schedule of Center:

University Center Cafeteria	7:15-2:00 M - F Closed on Weekends
University Center Biulding	7:00-11:00 M - F 10:00-11:00 Saturday 1:00-11:00 Sunday

The Student Activities Board is responsible for the program of social activities, lectures, recreational activities, and concerts which are presented in the Center and in the residence halls.

The Student Health Center

The Student Health Center is open twenty-four hours a day, seven days a week. The physician is in from 9:00 a.m. until 12:00 noon and 2:00 p.m. until 4:30 p.m., Monday through Friday. After hours, the physician is on call at home for emergencies at all times.

A student coming to the Health Service must present his I.D. card to the receptionist.

Residence Halls

See section titled *Expenses* on page 10.

University Bookstore

The University Bookstore, located in the Atkins Library Annex, is open from 8:00 - 5:00 Monday through Thursday and from 8:00 - 4:00 on Friday during the summer sessions.

Security

Security personnel are on duty and can be contacted twenty-four hours a day at 597-2200 or by contacting the Health Center at 597-2265, who are in constant contact with Security by radio. The Security Office, located in the basement of Reese Administration Building, is open for regular

business from 9:00 - 11:30 a.m. and 1:00 to 5:00 p.m., Monday through Friday.

All cars parked on campus must be registered and display a UNCC decal Meters are available for visitors. Copies of regulations with campus maps are available upon purchasing a decal or a request at the Security Office. Parking regulations are in effect twenty-four hours a day. Temporary permits are available from Security for guests, or for a student's vehicle that is only temporarily on campus, or one used while a registered vehicle is being repaired, etc.

Generally, all buildings and all rooms containing valuable property will be locked when not occupied. Entrance to locked rooms during non-class hours may be gained only with the written permission of a faculty member. Campus Security should be contacted to gain entrance into a locked room.

In addition to normal police duties, Security Officers are on campus to offer assistance whenever possible. Ninety percent of the Campus Security Officers are students, either at UNCC or other institutions, and are sympathetic with the problems of students. Some services provided by Security are operating a lost and found, assisting with car trouble (dead batteries, out of gas, etc.), assisting owner in gaining entry into locked vehicles, and delivering emergency messages.

Do not hesitate to contact the Campus Security Office in the event of a problem.

Emergency Numbers:

CAMPUS POLICE	597-2200
HEALTH SERVICE	597-2265 (twenty-four hrs a day)
OPERATOR	597-2000
MECKLENBURG CO. POLICE	9-374-2391

Admissions

Undergraduate Admissions

Summer Transient:

The University invites students from other college campuses to take advantage of the summer programs. Transient students are limited in course selection only by the approvals from the respective institutions. The University assumes no responsibility in determining a transient student's course selection.

Enrollment in the summer session in no way obligates the University to continue one's enrollment at the University of North Carolina at Charlotte. Those who seek to transfer must complete the application for undergraduate admission and meet the requirements therein.

Summer applicants receive from the Office of Admissions a letter of acceptance.

Applicants for transient admission must complete the application included in the summer bulletin and submit it with the permission of the proper college official to the Director of Summer Sessions.

Transient students are admitted to the summer session and to the regular academic year. Admission is granted only for one term. Continued enrollment requires an additional application. Credits earned as a transient student may not count toward a degree from the University of North Carolina at Charlotte until regular entrance requirements are met. When a student is admitted, all work taken as a transient will and must apply to the degree.

Freshman Admissions:

Applicants for freshman admission must present the following:

(1) Obtain an application from the Office of Admissions and return the completed form to that office.

(2) Include an application fee of $10.00. *The fee is not refundable.*

(3) Give the Secondary School Record and Recommendation Form to the proper high school officials. Transcripts are accepted after completion of the junior year. In order to be eligible for admission, you must have completed 16 acceptable units, 13 of which must have been in academic areas. In addition, you must have completed courses as required by the degree program for which you apply.

(4) Present satisfactory scores on the Scholastic Aptitude Test of the College Entrance Examination Board. The Admissions Committee will consider SAT scores from any of the national testings. You are responsible for having the official examination scores sent from the Education Testing Service to the Office of Admissions. Handwritten or typed scores cannot be used for official purposes.

(5) Present satisfactory evidence of good character. You are responsible for requesting the principal or guidance counselor of the secondary school to furnish the Office of Admissions with a recommendation.

(6) Upon conditional admission, complete and return the Medical Admissions Requirement Form to the University Health Center.

(7) Request a supplementary transcript be sent to the Office of Admissions upon graduation from high school.

Transfer Admissions:

Applicants for transfer admission must present the following:

(1) Obtain an application from the Office of Admissions and return the completed form to that office.
(2) Include an application fee of $10.00. *The fee is not refundable.*
(3) Request official transcripts from all colleges attended be mailed directly to the Office of Admissions.
(4) Give Confidential Statement (s) to proper college official (s). The recommendation is required from each college attended.
(5) Request an official transcript from the high school from which you graduated.
(6) If you are presenting fewer than twenty-four transferable hours, you must meet all freshman entrance requirements as well as those listed for transfer students.
(7) You must present a minimum of an overall C average (2.0 based on the 4.0 scale, according to the UNCC method of computation) on all work attempted at all institutions previously attended.
(8) Junior and senior transfer students must declare an academic major.
(9) Upon conditional admission, complete and return the Medical Admissions Requirement Form to the University Health Center.

Transfer students entering the University after attending a junior or community college will receive no more than sixty-four semester hours of academic credit (sixty-six including two semester hours of required physical education) toward a Bachelor of Arts degree and no more than sixty-eight semester hours of academic credit (seventy including two in required physical education) toward the Bachelor of Science and Bachelor of Science in Engineering degrees.

Expenses

The rates for each of the 1973 summer terms are based on the number of semester hours taken by each student and includes fees.

A student will be assessed for hours taken in each individual session and may not combine hours in two or more sessions for a single unit cost.

For a student taking individual study in the Creative Arts program, an additional fee of $12.50 will be charged. (1-3 hrs.): or $25.00 (4-6 hrs.)

For a student enrolled in the BCA program whose total work load will be in Creative Arts a fee of $22.50 will be charged.

These arrangements for payment of BCA fees are only for summer because of the shortness of the summer term.

A parking fee of $5 is charged for the summer session. *This fee is applicable for a term if one elects to attend only one term.*

The University reserves the right to make, with the approval of the proper authorities, changes in tuition and other fees at any time.

Fees

In-State Students

4 hours or less	$ 50.00
5 hours or more	$ 75.00

Out-of-State Students

4 hours or less	$175.00
5 hours or more	$275.00

Withdrawal and Refund of Fees

A student who officially withdraws from the University on or before the third day of classes in each summer session will receive a refund of the full amount paid less a registration fee of $10. After the period specified, no refund will be made.

In order to withdraw from summer school, a student should complete a withdrawal form in the Registrar's Office. Students regularly enrolled at UNCC should initiate the withdrawal in the department of their major.

Residence Halls

The University offers a new concept in on-campus housing. Residence halls provide a congenial atmosphere for living and learning. The buildings, while housing a large number of students, are designed to provide for the intimacy of small groups as well as for the larger social groupings through which a meaningful living-learning program is developed.

In addition to well-planned bedrooms, the halls provide lounges, study and seminar rooms and recreation space—all *air conditioned* for total comfort.

The bedrooms are a combination study and sleeping space for two students. Each student has his own desk, bookshelves, wardrobe, chest of drawers and bed. Rooms may be used for single occupancy when space permits. Two elevators service each hall.

Student mail boxes, a vending machine area, a library-lounge, and the resident administrator's apartment are on the main floor. The lower floor contains the recreation room, a laundry room with coin-operated washers

and dryers, and trunk storage. Maids and custodians clean bathrooms and public areas daily. A linen service, which provides two sheets, one pillow case, and three bath-size towels weekly, is available on a subscription basis at $6.75 plus 4% tax per six-weeks term.

Charges are pro-rata amounts of the regular semester charges and for rooms are as follows:

Each student in double room, each six-weeks term:	$ 77.00
Single occupancy of a double room, each six-weeks term:	$115.50

Financial Aid

Regularly enrolled UNCC students may apply for financial aid for the summer sessions. All financial aid—scholarships, grants-in-aid, loans, and work study opportunities—is awarded on the basis of financial need. Summer visitors from other campuses are not eligible for financial assistance.

Information and applications may be secured from the Office of Financial Aid, Room 010 Atkins Building, University of North Carolina at Charlotte, UNCC Station, Charlotte, N. C. 28213.

Graduate Studies

Master of Education and Master of Arts in Education

The University of North Carolina at Charlotte offers three graduate degree programs, two of which are directed primarily to the inservice school teachers in the Metrolina area. The Master of Education degree, with a major in Human Development and Learning, offers curricula approved for graduate certification in early childhood education, intermediate education and secondary education in a limited number of content areas. M.Ed. curricula also include programs approved for certification at the fifth-year level in school administration, guidance and counseling, and supervision and instruction. The Master of Arts in Education is designed chiefly for the secondary school teacher, with initial areas of concentration in English, history and mathematics. Additional areas are to be added as rapidly as resources become available.

For admission to graduate study at the University of North Carolina at Charlotte, application must be made on a form supplied by the Director of Graduate Studies and accompanied by appropriate test scores, letters of recommendation, and official transcripts of all academic work taken beyond the high school. Applicants must possess a bachelor's degree, or its equivalent, should have an overall quality point average of 2.50 (on the 4 point system) on all work beyond high school, with an average of 3.0 or better

on the major or basic courses prerequisite to the area of proposed graduate study. Applicants for admission to programs leading to the M.Ed. or M.A.Ed. will normally possess a valid North Carolina Class "A" teacher's certificate, or be approved in advance.

At least half of all work offered for an advanced degree must be taken in courses which are open to graduate students only; the other half may be from such courses or from courses open to advanced undergraduates and graduate students. Courses open to graduate students only are listed as 600-699. Courses open to both graduate and undergraduate students are preceded by an asterisk.

Requirements for the Master of Education include a minimum of thirty hours of approved course work, at least twelve of which shall be in professional education, twelve in no more than two content areas, and six in electives approved by the student's adviser. Those for the Master of Arts in Education include thirty hours of approved course work, of which at least eighteen must be in a single content area and at least six in professional education. Up to six hours transfer credit may be accepted from another accredited institution.

Master of Management

The University also offers, through a thirty-six hour program, a Master of Management degree designed to develop candidates for leadership positions in complex organizations of the future. Admission to this program is open to qualified graduates of recognized colleges or universities accredited by a regional or general accrediting agency. There are four major requirements for admission, (1) a generally satisfactory undergraduate record, (2) an acceptable score on the Admissions Test for Graduate Study in Business, administered by the Educational Testing Service of Princeton, New Jersey, (3) a description of any significant work experience, and (4) three supporting letters of recommendation from professors or employers.

Candidates who wish to enter the Master of Management program must file all data necessary to support their applications, including relevant test scores, with the Graduate Office two months prior to the beginning of the term in which they expect to enter.

New students will normally be enrolled only in the fall semester.

For further information write: Director of Graduate Studies, Master of Management Program, University of North Carolina at Charlotte, UNCC Station, Charlotte, North Carolina 28213.

Short Courses and Courses Meeting for Longer Than Six Weeks

EIGHT WEEKS SESSION

June 25 - August 17

Course No.	Title		Time	Room No.
MATHEMATICS				
#MAT 104A-1	*Vector Geometry I* Instructor: Goodrum Algebra and geometry of vectors; parametric, implicit and explicit descriptions of lines, intersections of lines; dot product, perpendicularity; length and distance.	(3)	10:00-11:30	BRND 106
#MAT 143-1	*Differential Calculus I* Instructor: Goodrum Prerequisite: MAT 103 or equivalent and MAT 104A with a grade of C or better. Limits in R^n; continuity of $R^n \to R$ functions; differential calculus of $R \to R^n$ functions; extreme values; concavity; curve sketching; velocity and acceleration, related rates.	(3)	10:00-11:30	BRND 106
MAT 271-1	*Differential Equations* Instructor: Lucas Prerequisite: MAT 104 and 144 with a grade of C or better. An introduction to the study of differential equations; first order equations; general theory of ordinary differential equations; Laplace transform.	MWF (3)	8:00-9:30	BRND 106
MAT 600-1	*Foundations of Mathematics* Instructor: Johnson Prerequisite: Consent of the department. Sets, logic and axiomatics with examples drawn from algebra and geometry.	MWF (3)	10:00-11:30	DEN 215
MAT 606-1	*Topics in Algebra* Instructor: Reiter Prerequisite: MAT 601 or consent of the department. A selection of topics from the classical algebraic structure, including groups, rings, fields, and vector spaces.	MWF (3)	2:30-4:00	BRND 101

Students registering for 104A-1 should also register for 143-1.

Course No.	Title	Time	Room No.
MATHEMATICS			
MAT 608-1	*Topics in Geometry—Topology* MWF (3) Instructor: Schell Prerequisite: MAT 601 or consent of the department. A study of selected topics from geometry and topology such as: Euclidean geometry, non-Euclidean geometry, projective geometry, differential geometry, point-set topology, algebraic topology.	12:30-2:00	BRND 101

THREE WEEKS SESSION

July 30 - August 16

Course No.	Title	Time	Room No.
HUMAN DEVELOPMENT AND LEARNING			
HDL 570-1	*Selected Topics in Human Development and Learning*		
	F. Drugs: Educational Aspects (3) Instructor: Staff	8:30-12:30	MACY 210
	G. Living/Learning Environments (3) Instructor: Rowland	1:00-4:00	MACY 206
	H. Helping College Students in Experiential Learning (3) Instructor: Smith (A workshop planned for teachers and other staff members of the public schools working with the student teachers of the University of North Carolina at Charlotte.) Prerequisite: HDL 201 and permission of the College of Human Development and Learning. Topics and special problems chosen in relation to human learning, ideas, practices, significant movements, or detailed study of models for human learning. Seminars, independent study, and clinical experiences. May be repeated for credit with approval.	1:00-4:00	MACY 208
HDL 600-1	*Explorations in Human Potential* **B. The Facilitation of Meaning** (3) Instructor: Antonelli A course designed to explore in depth the identification, development and release of human potential. Emphasis will be given to techniques, relationships, and programs which develop potential. The course is organized to be taught by a team giving op-	8:30-12:30	DLTN 006

Course No.	Title		Time	Room No.
	portunities for the student to study in depth areas of interest and need such as: A. The Person and School in Urban Society, B. The Facilitation of Meaning, and C. Children and Youth.			
HDL 625-1	*Concepts of Teaching and Learning*			
	A. Integrated Studies Instructor: Parker	(3)	1:00-4:00	MACY 210
	C. Science Instructor: V. Pollak A course designed to provide the student with an opportunity to critically examine current trends and practices in particular areas such as: A. Integrated Studies, B. Language Development and Reading, and C. Science.	(3)	8:30-12:30	SMTH 325
HDL 665-1	*Analyzing and Developing Approaches to the Helping Relationships*			
	A. Person to Person Relationships Instructor: Chase	(3)	1:00-4:00	DLTN 006
	B. Group Process and Behavioral Change Instructor: Staff	(3)	1:00-4:00	DEN 107
	D. Supervision Instructor: Pleasants A course designed for the study of ways, means, and concepts of improving instruction, learning, and development through the helping relationship. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. Person to Person Relationships, B. Group Process and Behavioral Change, and D. Supervision.	(3)	1:00-4:00	DEN 202

Seminars, Institutes and Workshops

India and Africa: A Cultural Approach (HIS 650B-1) (3) DEN 105
June 11-June 29 (MTuWThF) 9:00-12:00
Special Institute for Intermediate and Secondary School Teachers
Instructor: Patterson and White

Prerequisite: Possession of North Carolina Class (A) Teacher Certificate. The course will focus on the history, geography and culture of India and Africa with attention given to the development of curricular materials that may be used in the classroom. The only registration for this course will take place on the first day of class. Do not preregister.

Medieval History (HIS 106-1) (3)
July 18-August 15
Instructor: Wrigley
Political and cultural developments from the late Roman Empire until the Renaissance. A four-week travel-study program in England during late July and early August. Approved for teacher's renewal certification credit. Honor students may earn 6 hours credit. Students will live in university housing in London for one week, and in Oxford for three weeks. This all-expense program will provide various tours within England. More detailed information may be obtained and registration may be made through Dr. John E. Wrigley, Department of History, The University of North Carolina at Charlotte, UNCC Station, Charlotte, North Carolina 28213. Telephone, 597-2184 or 364-5179.

The program will operate on a cost plus tuition basis. Enrollment is limited.

SERVICE LEARNING INTERNSHIP

The Service-Learning Internship Program in Community Education and Service is designed as an area-wide academic program with credit in the College of Social and Behavioral Sciences. Participants will be selected into the program. The program is serviced through the Institute for Urban Studies and Community Service.

The following are the overall objectives of the Internship Program:

To identify relationships between the student's academic program and the problems and prospects of modern urban communities.

To enable students to become involved in solving problems of the urban community.

To provide manpower for governmental and service agencies in local metropolitan communities.

To encourage youth to consider careers and/or citizen leadership in urban administration and service.

To establish a closer relationship between institutions of higher education and the Charlotte area communities by making the resources of the college and universities more accessible to the community and by providing a basis for keeping curriculum teaching, and research relevant to the needs of the community and society.

Interns will receive six semester hours of academic credit, with grading on a P/NC basis, for their completion of the Program in Community Education and Service by enrolling

in the following courses in the College of Social and Behavioral Sciences (SBS) at the University of North Carolina at Charlotte.

SBS 397-1 *Internship in Community Education and Service* (3)
Prerequisite: Junior standing, acceptance into the program, and approval of the student's major department. Corequisite: SBS 398. A project-oriented, service-learning internship with cooperative community organizations.

SBS 398-1 *Seminar in Community Education and Service* (3)
Corequisite: SBS 397 or participation in a service-learning situation for credit approved by the Office of the Dean, College of Social and Behavioral Sciences. A forum for the analysis of needs in the urban community and the resources being generated to meet them. Interpreting the relationship between internship experiences in terms of the service-learning concept.

The student intern's major department has the option of recognizing this credit as fulfilling departmental requirements and granting permission to repeat for credit. Student interns not regularly enrolled at the University of North Carolina at Charlotte are responsible for arranging for transfer of credit with their home institution. Student interns not regularly enrolled at the University of North Carolina at Charlotte should request in writing to be evaluated by a letter grade upon acceptance into the program if a letter grade is required by their home institution.

The Pass/No Credit evaluation does not apply against the four courses allowed on a Pass/No Credit option for UNCC students.

Inquiries should be directed to:

Mr. Larry G. Owen
Associate Director
Institute for Urban Studies and Community Service
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

The Robert A. Taft Institute of Government Seminar
June 10-June 22 (MTuWThF) DLTN 024

(Political Science 450-1) The Robert A. Taft Institute of Government and the Political Science Department at the University of North Carolina are co-sponsoring a graduate seminar for thirty-five teachers who have the responsibility for conducting social studies, civics, or government classes. Seminar leaders will include congressmen, state legislators, city and county officials, political party officials, members of the governmental bureaucracies, interest group spokesmen, newspaper and television officials, and university professors. The purpose of the seminar will be to explore current changes taking place in American politics. Specific topics examined will include changes in the American two-party system, the increasing independence of the American voter, the impact of ideology on American politics, political polling and campaigning, mass media and public opinion, and political and governmental reform. Teachers selected to participate will receive a grant to cover the cost of tuition and room and board expenses on the campus for a two-week period. Three hours of graduate credit (Pass/No Credit) will be granted to those participants who successfully complete the program. Inquiries should be directed to Dr. Schley R. Lyons, Department of Political Science, University of North Carolina at Charlotte, UNCC Station, Charlotte, North Carolina 28213.

Venture Program
July 12-27 Instructor: Schmidt

This program is an experiential learning process which attempts to meet several fundamental needs complementary to the student's education. It utilizes a wilderness setting and small-group dynamics in order to increase the student's understanding of self, interpersonal relationships, and the environment. The program is action-oriented with one experience building upon another. The emphasis is on an interdisciplinary approach. For information, contact the Office of the Dean of the College of Social and Behavioral Sciences, University of North Carolina at Charlotte, UNCC Station, Charlotte, North Carolina 28213.

SBS 399-1 *Venture* (3)

An Outward Bound-type of experience which utilizes a wilderness setting and small-group dynamics in order to increase the student's understanding of self-interpersonal relationships, and the environment. The course is action-oriented with one experience building upon another. The emphasis is on an interdisciplinary approach.

NOTE:

The student's major department has the option of recognizing this credit as fulfilling departmental requirements. Evaluation will be on a Pass/No Credit basis which does not apply against the four courses allowed on a Pass/No Credit option for UNCC students.

The 1973 SBS Venture course will be open to undergraduate students who are at least rising sophomores. Applicants should apply for participation in the program to the Associate Director for Internship Coordination, Institute for Urban Studies and Community Service, the University of North Carolina at Charlotte, for application forms. Nine students will be selected into the program for the Summer, 1973.

First Summer Session

Course No.	Title		Time	Room No.
ACCOUNTING				
ACC 201-1	*Principles of Accounting* Instructor: Higgins A study of fundamental accounting principles, with emphasis on managerial uses of accounting data, and analysis of financial statements.	(3)	8:00-9:30	DEN 213
ACC 201-2	*Principles of Accounting* Instructor: Higgins	(3)	10:00-11:30	DEN 213
ACC 201-3	*Principles of Accounting* Instructor: Whisnant	(3)	12:30-2:00	DEN 105
ACC 201-L01	*Laboratory* Tu Instructor: Higgins		2:30-4:30	DEN 109
ACC 201-L02	*Laboratory* W Instructor: Whisnant		2:30-4:30	DEN 109
ACC 371-1	*Cost Accounting* Instructor: Turner Prerequisite: Accounting 202. A study of cost determination and control. Emphasis will be placed on managerial uses of cost accounting.	(3)	8:00-9:30	DEN 217
ACC 371-2	*Cost Accounting* Instructor: Williamson	(3)	10:00-11:30	MACY 102
ACC 371-L01	*Laboratory* M Instructor: Turner		2:30-4:30	DEN 217
ACC 371-L02	*Laboratory* W Instructor: Williamson		2:30-4:30	DEN 217
ACC 374-1	*Intermediate Accounting I* Instructor: Turner Prerequisite: Accounting 202. A study of accounting theory and concepts and their application to financial accounting.	(3)	10:00-11:30	DEN 217
ACC 374-L01	*Laboratory* Tu Instructor: Turner		2:30-4:30	DEN 217

Course No.	Title		Time	Room No.
ARCHITECTURE				
ARC 101-1	*Studio/Seminar* Instructor: Busey Prerequisite: Major in College of Architecture or consent of Dean. Fundamental concepts of objective problem solving as related to the general nature of geophysical, societal, and technological determinants of problems in the physical environment. A sequence of related projects in which the student develops an understanding of the principles of problem solving in architecture.	(7)	8:30-11:30 1:30-4:30	ATK 318
ARC 201-1	*Studio/Seminar* Instructor: Newell Prerequisite: Major in College of Archietcture, ARC 101 and ARC 104. Non-major. consent of Dean. Development of the ability to analyze geophysical determinants of architectural problems in the physical environment. A sequence of related projects in which the student develops an ability to analyze relationships between natural phenomena and architecture.	(7)	8:30-11:30 1:30-4:30	ATK 318
BIOLOGY				
BIO 101-1	*Principles of Biology* Instructor: Johnson No credit toward a biology major. A course designed to acquaint the student with the fundamental principles of life.	(4)	12:30-2:00	KNDY 107
BIO 101-L01	*Laboratory* TuWTh Instructor: Johnson		10:00-11:50	KNDY 221
BIO 101-L02	*Laboratory* TuWTh Instructor: Ostrowski		2:10-4:00	KNDY 221
BIO 203-1	*Bacteriology* Instructor: Darner Prerequisites: One semester of biology and one semester of chemistry. No credit toward a biology major. Basic physiology of bacteria and viruses, with emphasis on the pathogens and the epidemeology of microbial diseases.	(3)	12:30-2:00	KNDY 120
BIO 203A-L01	*Laboratory* TuWTh Instructor: Visco	(1)	2:10-5:00	KNDY 215

Course No.	Title		Time	Room No.
BIO 205-1	*Human Anatomy and Physiology* Instructor: Hogan Prerequisite: One semester of biology. No credit toward a biology major. Basic fundamentals of the anatomy and physiology of the human body as an integrated unit.	(3)	12:30-2:00	KNDY 207
BIO 205A-L01	*Laboratory* TuWTh Instructor: Hogan	(1)	2:10-5:00	KNDY 220
BIO 211-1	*Plant Biology* Instructor: Matthews Prerequisite: Open to majors and nonmajors; BIO 101 prerequisite for nonmajors. The morphology, function, reproduction, phylogeny, and ecology of plants.	(4)	12:30-2:00	KNDY 207
BIO 211-L01	*Laboratory* TuWTh Instructor: Matthews		2:10-5:00	KNDY 201
BIO 331-1	*Genetics* Instructor: Ostrowski Prerequisite: One semester of biology. Basic concepts of heredity; principles of classical and molecular genetics.	(3)	10:00-11:30	KNDY 107
BIO 338-1	*Embryology* Instructor: Edwards Prerequisite: Biology 221. Developmental interactions during gametogenesis, fertilization, early embroyology, and organogensis.	(3)	12:30-2:00	KNDY 201
BIO 338A-L01	*Laboratory* TuWTh Instructor: Edwards	(1)	2:10-5:00	KNDY 201
BIO 497-1	*Investigations in Biology* Instructor: Staff May be repeated for credit. Prerequisite: Permission of the department. A course designed to allow the senior biology major to initiate a research project in his field of interest.	(1-4)	TBA	
BLACK STUDIES				
BLS 101-1	*Black Experience I* Instructor: Maxwell Core course for all students with a desire for further personal development of Black awareness. Student orientation to experiences involving a Black perspective.	(3)	10:00-11:30	WINN 101

Course No.	Title		Time	Room No.
BLS 492-1	*Senior Colloquium* Instructor: Maxwell A weekly colloquium for students actively engaged in research and writing to provide opportunities for mutual stimulation, critique, and problem solving.	(3)	TBA	TBA
BUSINESS ADMINISTRATION				
BUS 311-1	*Marketing* Instructor: Campbell Prerequisite: Economics 202. Analysis of the activities which direct the flow of goods and services from producers to consumers in modern economic systems; focuses on development of the student's ability to perceive and evaluate marketing problems and policies.	(3)	8:00-9:30	DEN 205
BUS 380-1	*Business Law* Instructor: Trosch A study of the legal environment within which business operators, topics covered include contracts, sales, negotiable instruments, agency, partnerships, and corporations.	(3)	10:00-11:30	DEN 102
BUS 382-1	*Sales, Credit, and Security Transactions* Instructor: Trosch The study of the Uniform Commercial Code. Subjects covered include sale of goods, commercial paper, bank deposits and collections, letters of credit, bulk transfers, documents of title, investment securities and secured transatcions.	(3)	8:00-9:30	DEN 102
BUS 400-1	*Industrial Management* Instructor: Conrad Prerequisite: ECO 202, ACC 202, and MAT 120. The principles underlying the solution of problems in organization and operation of industrial enterprises. Emphasis placed on the management functions of planning, organizing, actuating, and controlling business activity.	(3)	8:00-9:30	DEN 103
BUS 400-2	*Industrial Management* Instructor: Eatman	(3)	10:00-11:30	DEN 205
BUS 444-1	*Organization Theory* Instructor: Geurin Prerequisites: ECO 202 and senior standing. An application of traditional and behavioral	(3)	8:00-9:30	DEN 203

Course No.	Title		Time	Room No.
	concepts to business organization and decision making. Primarily a study of the process of decision making in the business organization including the more modern feed back systems of group behavior.			
BUS 444-2	*Organization Theory* Instructor: Conrad	(3)	10:00-11:30	DEN 103
CHEMISTRY				
CHE 101-1	*Principles of Chemistry* Instructor: Dubois Prerequisite or corequisite: MAT 101 or MAT 103. A principles-oriented course for science majors. Fundamental postulates and laws of chemistry; the relationship of atomic structure to physical and chemical properties of the elements.	(4)	12:30-2:00	DEN 109
CHE 101-L01	*Laboratory* TuWTh Instructor: Walsh		8:30-11:20	KNDY 320
CHE 101-L02	*Laboratory* TuWTh Instructor: Dubois		2:10-5:00	KNDY 320
CHE 103-1	*General Chemistry* Instructor: Norman Designed primarily for non-science majors. Fundamentals of chemistry and selected topics from inorganic, organic, colloid, nuclear, and biochemistry.	(4)	12:30-2:00	KNDY 309
CHE 103-L01	*Laboratory* TuWTh Instructor: Norman		2:10-5:00	KNDY 309
CHE 231-1	*Organic Chemistry* Instructor: Gibson Prerequisite: Chemistry 102. Basic theories, principles, and techniques of organic chemistry and their applications to reactions of aliphatic and aromatic compounds and natural products.	(4)	12:30-2:00	DEN 103
CHE 231-L01	*Laboratory* TuWTh Instructor: Gibson		2:10-5:00	KNDY 310

CREATIVE ARTS

Creative Arts Majors (Art, Music, Theater) must obtain a *registration authorization form* in the Creative Arts office (Rowe 144) before reporting to the Gym in June for completion of the Registration process.

The following Creative Arts courses are for the *non-major* only. A maximum of six (6) hours may be elected in any session.

IMPORTANT—The INITIAL meeting for *all* sections of the 211, 212 and 213 courses will be held at 8:00 a.m. June 4th for the first session in the Rowe Building in the office of the faculty member offering the directed project.

Course No.	Title		Cr. Hr.	Room No.
CA 211A 014	*Directed Projects — Art*	Instructor: Mason	(1)	ROWE 114
CA 211A 016	*Directed Projects — Art*	Instructor: Hill	(1)	ROWE 241
CA 212A 014	*Directed Projects — Art*	Instructor: Mason	(2)	ROWE 114
CA 212A 016	*Directed Projects — Art*	Instructor: Hill	(2)	ROWE 241
CA 213A 014	*Directed Projects — Art*	Instructor: Mason	(3)	ROWE 114
CA 213A 016	*Directed Projects — Art*	Instructor: Hill	(3)	ROWE 241
CA 211M 022	*Directed Projects — Music*	Instructor: Dailey	(1)	ROWE 258
CA 211M 026	*Directed Projects — Music*	Instructor: Mosley	(1)	ROWE 293
CA 211M 027	*Directed Projects — Music*	Instructor: Turner	(1)	ROWE 289
CA 212M 022	*Directed Projects — Music*	Instructor: Dailey	(2)	ROWE 258
CA 212M 026	*Directed Projects — Music*	Instructor: Mosley	(2)	ROWE 293
CA 212M 027	*Directed Projects — Music*	Instructor: Turner	(2)	ROWE 289
CA 213M 022	*Directed Projects — Music*	Instructor: Dailey	(3)	ROWE 258
CA 213M 026	*Directed Projects — Music*	Instructor: Mosley	(3)	ROWE 293
CA 213M 027	*Directed Projects — Music*	Instructor: Turner	(3)	ROWE 289
CA 211T 033	*Directed Projects — Theater*	Instructor: Hindman	(1)	ROWE 244
CA 211T 034	*Directed Projects — Theater*	Instructor: Rackley	(1)	ROWE 230
CA 212T 033	*Directed Projects — Theater*	Instructor: Hindman	(2)	ROWE 244
CA 212T 034	*Directed Projects — Theater*	Instructor: Rackley	(2)	ROWE 230
CA 213T 033	*Directed Projects — Theater*	Instructor: Hindman	(3)	ROWE 244
CA 213T 034	*Directed Projects — Theater*	Instructor: Rackley	(3)	ROWE 230

Course No.	Title		Time	Room No.
ECONOMICS				
ECO 201-1	*Principles of Economics — Macro* Instructor: Stuper Topics considered include the scope and methodology of economics as a social science, the measurement of national income, the theory of national income determination, money and banking, and monetary and fiscal policy.	(3)	8:00-9:30	DEN 216
ECO 201-2	*Principles of Economics — Macro* Instructor: Liner	(3)	10:00-11:30	SMTH 218
ECO 201-3	*Principles of Economics — Macro* Instructor: Liner	(3)	12:30-2:00	DEN 102

Course No.	Title		Time	Room No.
ECO 305-1	*Industrial Relations* Instructor: Stone Prerequisite: ECO 202. Systematic analysis of the sociological, economic, and political forces affecting and affected by the work environment. Special emphasis on market structure, the small group, the legal environment, and union structure.	(3)	8:00-9:30	DEN 206
ECO 305-2	*Industrial Relations* Instructor: Stone	(3)	10:00-11:30	DEN 206
ECO 324-1	*Managerial Economics* Instructor: Guerin Prerequisites: Economics 202, Accounting 202, Mathematics 122, and Computer Science 100. A consideration of economic problems of particular importance to business firms, with a view of using tools of economic analysis in managerial decision making.	(3)	10:00-11:30	DEN 203
ECO 370-1	*Monetary and Fiscal Policy* Instructor: Stuper Prerequisite: ECO 201. An examination of the nature and content of economic behavior of the American economy. This course deals primarily with a critical examination of monetary and fiscal tools and their application with a view toward full employment, economic growth, and price stability.	(3)	10:00-11:30	DEN 216
ECO 480-1	*Industrial Organization and Public Policy* Instructor: Jorgensen Prerequisite: ECO 202. An examination of the characteristics of various types of industries—competitive, oligopolistic, monopolistic, and nonopolistically competitive—and of the questions of public policy in dealing with problems created by industrial concentration.	(3)	8:00-9:30	DEN 106
ENGINEERING				
LE 111-1	*The Man Made World I* Instructor: Bayer Concepts underlying the systems which relate directly to the life of the individual in terms of decision making. Emphasis on scientific ideas which are relevant to the	(3)	10:00-11:30	SMTH 345

Course No.	Title		Time	Room No.
	student—which he should understand to participate in the decisions of an age of technology. Specific topics include decision making, optimization, modeling, patterns of change, and computers. This course is open only to non-engineering students.			
LE 311-1	*Technology in Historical Perspective* Instructor: Bell Prerequisite: Junior standing. Selected historical cases in science, applied science, and technology are reviewed to show the impacts that technological advances have had on man's world. Emphasis is placed on the technologies and their effect on man's physical environment rather than on the resulting change in man's viewpoint toward society, economics, or politics. This course is designed for non-engineering students.	(3)	8:00-9:30	SMTH 306
ESM 241-1	*Engineering Mechanics I* Instructor: Norem Prerequisite or corequisite: MAT 144. Review of vector algebra; unit vectors, scalar and vector products of vectors. Newton's Laws: the equilibrium of a particle, friction, the equilibrium of systems of particles and of rigid bodies. Center of gravity, center of mass, centroids. The kinematics of a particle: rectangular Cartesian and orthogonal curvilinear coordinates. The kinematics of rigid bodies; relative motion. The dynamics of a particle: Newton's second law, work and kinetic energy, potential energy, work and conservative force fields, impulse and momentum.	(3)	8:00-9:30	SMTH 228
ESM 311-1	*Thermodynamics I* Instructor: Kim Prerequisites: ESM 241 or Physics 221, MAT 271. First and second laws of thermodynamics. Work and heat. Thermodynamic probability and entrophy. Ideal and real gases. Non-reactive mixtures of gases. Availability and irreversibility. Vapor and gas power cycles.	(3)	12:30-2:00	SMTH 228
EAD 211-1	*Linear Networks I* Instructor: Seevers Prerequisite: MAT 143. Introduction to Kirchoff's current and voltage equations	(3)	10:00-11:30	SMTH 228

Course No.	Title		Time	Room No.
	using oriented linear graph techniques. Formulation of cutset and circuit matrices. Terminal equations of network elements. Formulation of the primary and secondary systems of equations by matrix methods. Network theorems and equivalence. Power and energy functions.			
ET 370-1	*Basic Engineering Analysis* Instructor: Bromm	(3)	10:00-11:30	SMTH 227
	Prerequisite: College algebra, trigonometry, and analytic geometry. A course designed to give students intensive practice in the methods of solving engineering problems which require a knowledge of algebra, determinants, trigonometry, analytic geometry, and vector algebra.			
ENGLISH				
ENG 101-1	*English Composition* Instructor: Shapiro	(3)	8:00-9:30	WINN 214
	Introductory readings in varieties of literature and intensive practice in critical and expository writing.			
ENG 101-2	*English Composition* Instructor: Kerwin	(3)	10:00-11:30	WINN 214
ENG 201-1	*English Literature* Instructor: Rea	(3)	2:30-4:00	WINN 214
	Prerequisites: ENG 101 and 102. Intensive study of the masterpieces of British literature in chronological sequence before 1700.			
ENG 203-1	*Masterpieces of Modern Fiction* Instructor: Burne	(3)	8:00-9:30	WINN 206
	Prerequisites: ENG 101 and 102. Readings in selected novels and short stories written since 1850.			
ENG 323-1	*English Literature, 1660-1785* Instructor: Wallace	(3)	10:00-11:30	WINN 207
	Poetry and prose from Dryden through Johnson; collateral readings in drama and the novel.			
ENG 332-1	*Introduction to Modern English* Instructor: Varnas	(3)	10:00-11:30	WINN 206
	An introduction to the phonology and grammatical structure of present-day English, with some consideration of word formation, changes in meaning, dialectal differences, and problems of usage.			

Course No.	Title		Time	Room No.
ENG 342-1	*American Literature Since 1890* Instructor: Shapiro The chief writers and movements from Howells to the present.	(3)	10:00-11:30	WINN 208
ENG 350-1	*Modes of Satire* Instructor: Wallace Selections from Aristophanes to contemporary science fiction illustrating styles and subjects of satire.	(3)	12:30-2:00	WINN 214
*ENG 461-1	*Modern English Grammar* Instructor: Varnas Prerequisite: ENG 331 or 332. A descriptive analysis of the structure of Modern English, with emphasis upon the transformational approach.	(3)	12:30-2:00	WINN 206
ENG 685-1	*Introduction to the Writings of Black Americans, 1760 to the Present* Instructor: Mason A survey with extensive readings in an attempt to show a continuity in the works of black writers in America.	(3)	2:30-4:00	WINN 206
ENG 690-1	*Directed Reading* Instructor: Staff	(3)	TBA	
FRENCH				
FRE 101-1	*Elementary French* Instructor: Cernyak Fundamentals of French grammar and phonetics, reading, writing and conversation.	(4)	8:00-9:30	MACY 204
FRE 101-L01	*Laboratory* Instructor: Cernyak		10:00-11:00	MACY 106
FRE 201-1	*Intermediate French* Instructor: Rose Prerequisite: FRE 102, or permission of the department. Review grammar, with composition and conversation based upon readings on French culture and civilization.	(4)	12:30-2:00	MACY 204
FRE 201-L01	*Laboratory* Instructor: Rose		11:00-12:00	MACY 106

* Open to Graduates and Undergraduates

Course No.	Title	Time	Room No.
GEOGRAPHY AND EARTH SCIENCES			
GGY 101-1	*Earth Science Geography* (4) Instructor: Jarrell A study of basic geographical principles and processes in earth science; the earth—its position and motions; the grid system; weather; climate; the waters; soils, and vegetation.	12:30-2:00	SMTH 204
GGY 101-L01	*Laboratory* MW Instructor: Jarrell	2:00-5:00	SMTH 347
GGY 202-1	*Elementary Cartography* M (3) Instructor: Walcott Prerequisite: GGY 101 or consent of the department. Emphasis to be focused on tools of map making, map design and construction and the interpretation of aerial photographs and topographic maps.	12:30-3:00	SMTH 323
GGY 202-L01	*Laboratory* TWTh Instructor: Walcott	TW 12:30-4:00 Th 12:30-3:00	SMTH 323
*GGY 316-1	*Geography of Tertiary Activity* (3) Instructor: Lord A study of spatial attributes of retail and wholesale activities, service facilities and financial establishments. Emphasis upon location research and delineation of trade and service areas.	10:00-11:30	SMTH 217
*GLY 361-1	*Geomorphology* (3) Instructor: Lord Prerequisite: GLY 102. Treatment of the processes shaping the earth's surface, genesis of land forms, and the theories related to landform development.	8:00-9:30	SMTH 218
*GGY 450-1	*Special Problems in Geography* n. a. Instructor: Staff Permissions of the department must be obtained and credit hours established in advance. May be repeated for credit. Tutorial study or special research problems.	n. a.	
*GGY 450-2	*Special Problems in Geography* n.a. Instructor: Staff	n. a.	
*GGY 450-3	*Special Problems in Geography* n.a. Instructor: Staff	n. a.	

* Open to Graduates and Undergraduates

Course No.	Title		Time	Room No.
GERMAN				
GER 101-1	*Elementary German* Instructor: Park Fundamentals of German grammar and phonetics, reading, and conversation.	(4)	8:00-9:30	MACY 205
GER 101-L01	*Laboratory* Instructor: Park		10:00-11:00	MACY 106
GER 201-1	*Intermediate German* Instructor: Gabriel Prerequisite: GER 102 or permission of the department. Review grammar, composition, and conversation based upon readings on the culture and civilization of German-speaking countries.	(4)	12:30-2:00	MACY 205
GER 201-L01	*Laboratory* Instructor: Gabriel		11:00-12:00	MACY 106
HEALTH AND PHYSICAL EDUCATION				
HED 101-1	*Health Education* MTuWTh Instructor: Staff A general introductory course. Basic ideas of human anatomy, physiology, and chemistry are applied toward an understanding of human health problems.	(1)	12:30-1:45	PE 222
HED 409-1	*Health Education Laboratory* Instructor: Staff Prerequisites: HED 101. Health instruction, principles of health teaching for the elementary grades.	(3)	10:00-11:30	PE 229
PED 102-1	*Weight Training* Instructor: Bostian The mechanics and principles of weight training.	(1)	10:00-11:30	PE 066
PED 120-1	*Beginning Tennis* Instructor: Kingery The rules, history, basic skills, and basic strategy.	(1)	12:30-2:00	Courts
PED 121-1	*Beginning Badminton* Instructor: Bostian The rules, history, basic skills and basic strategy.	(1)	11:30-1:00	Courts
PED 140-1	*Beginning Golf* Instructor: Avant The grip, stance, stroke, use and selection of clubs, history, rules, and etiquette.	(1)	10:00-11:30	PE 222

Course No.	Title		Time	Room No.
PED 409-1	*Physical Education Laboratory* Instructor: Murphy	(3)	9:00-9:30	PE 229
HISTORY				
HIS 101-1	*Modern Western Civilization to 1815* Instructor: Warren This course commences with broad survey of ancient and medieval contributions to modern Western civilization and then treats intensively the development of Western civilization from the Renaissance to 1815.	(3)	8:00-9:30	DEN 115
HIS 102-1	*Modern Western Civilization from 1815 to the Present* Instructor: Rieke Continuation of History 101 with greater emphasis on developments outside the Atlantic community of Western civilization.	(3)	8:00-9:30	DEN 118
HIS 103-1	*American History I* Instructor: Robbins Survey of American History from the earliest times to 1865.	(3)	12:30-2:00	DEN 118
HIS 106-1	*Medieval History* Instructor: Wrigley Political and cultural developments from the late Roman Empire until the Renaissance.	(3)	10:00-11:30	DEN 115
HIS 303-1	*History of Greece* Instructor: Ploger From the beginning of civilization in Greece to 332 B.C.	(3)	10:00-11:30	DEN 117
HIS 309-1	*Nineteenth Century Europe, 1814-1914* Instructor: Warren A survey of the major political developments in European history from the Congress of Vienna. Emphasis will be placed on liberalism, nationalism, imperialism, and the diplomatic agreements leading to World War I.	(3)	12:30 2:00	DEN 115
HIS 310-1	*Twentieth Century Europe, 1914 to the Present* Instructor: Rieke A review of the causes and results of World War I, followed by an intensive study of the	(3)	10:00-11:30	DEN 118

Course No.	Title		Time	Room No.
	problems of peace, rise of new governments, collapse of the collective security, World War II and the post-war period.			
HIS 363-1	*Modern Britain and the British Empire since 1789* Instructor: Ploger The continuation of HIS 362 with greater emphasis on the Empire and Commonwealth.	(3)	8:00-9:30	DEN 117
HIS 375-1	*Civil War and Reconstruction, 1860-1877* Instructor: Robbins A study of the American people in war and post-war adjustment. Emphasis is placed on the political, social, and economic conditions of the North and South during the Civil War and Reconstruction period.	(3)	2:30-4:00	DEN 118
*HIS 492A-1	*Seminar in the Crusades* Instructor: Wrigley A narrative approach to the Crusades is combined with an analysis of their cultural and political background, of their causes and of their results. Readings and reports.	(3)	12:30-2:00	DLTN 018

HUMAN DEVELOPMENT AND LEARNING

Phase I Explorations in Human Potential

HDL 201-1	*Introductory Explorations in Human Potential* Instructor: Hammond An introductory course in the philosophical foundation of the educative process designed to explore the nature of man, and human potential, in relation to one's system of beliefs, values, and relationships. Emphasis is given to the analysis and development of the student's beliefs, his personhood, and to his role in relationships. Clinical experiences are provided to introduce the student to teaching/learning relationships and to a sociological orientation of growth and the school in modern society. Open to freshmen.	(3)	8:00-9:30	DEN 114
HDL 201-2	*Introductory Exploration in Human Potential* Instructor: Staff	(3)	12:30-2:00	SMTH 218

* Open to Graduates and Undergraduates

Course No.	Title		Time	Room No.
HDL 201-3	*Introductory Exploration in Human Potential* Instructor: Hammond	(3)	10:00-11:30	KNDY 120
Phase II	Meaning Growth in Teaching/ Learning Relationships			
HDL 301-1	*Reading and the Language Arts* Instructor: Rippy Emphasis on oral and written communication, with special attention to the teaching of reading; appraisal of current programs and methods. This course required of all students planning to teach on the elementary level. Prerequisites: HDL 201, Psychology 202.	(3)	8:00-9:30	KNDY 207
HDL 301-2	*Reading and the Language Arts* Instructor: Rippy	(3)	10:00-11:30	KNDY 207
HDL 301-3	*Reading and the Language Arts* Instructor: Baptiste	(3)	2:30-4:00	DEN 216
HDL 303-1	*Elementary Education I: Organization and Curriculum* Instructor: Staff A course designed to develop an understanding of the curriculum of the elementary school. Emphasis is placed on the role of the teacher in the design, organization and administration of the elementary school. Major consideration is given to approaches to instructional organization such as multi-age grouping and team teaching as they relate to the curriculum. Prerequisites: HDL 201, PSY 202.	(3)	8:00-9:30	WINN 207
HDL 303-2	*Elementary Education I: Organization and Curriculum* Instructor: Baptiste	(3)	12:30-2:00	DEN 216
Phase IV	Experience and Commitment in Human Development and Learning			
HDL 570-1	*Selected Topics in Human Development and Learning*			
	A. **Living/Learning Styles** Instructor: Staff Prerequisites: HDL 201 and permission of the College of Human Development and Learning. Topics and special problems chosen in relation to human learning ideas, practices, significant movements, or detailed study of models for human learn-	(3)	TBA	

Course No.	Title		Time	Room No.
	ing. Seminars, independent study, and clinical experiences. May be repeated for credit with approval.			
MANAGEMENT				
MGT 622-1	*Information Analysis II* Instructor: Eatman An analytical approach to the management process. Generalized models for decision making will be explored with major emphasis placed on the application of the scientific method to management problems.	(3)	7:00-8:30 am	DEN 202
MATHEMATICS				
MAT 101-1	*Basic Concepts of Mathematics* Instructor: Porterfield Algebraic properties of the real number system; sets, relations, functions; graphing and solution of equations and inequalities; vectors and matrices; polynominal, exponential and logarithmic functions; introduction to computer programming. (Credit not given to students having credit for MAT 103.)	(3)	8:00-9:30	BRND 103
MAT 101-N	*Basic Concepts of Mathematics* Instructor: Allen	(3)	7:40-9:10	BRND 103
MAT 103-1	*Concepts of Mathematics* Instructor: Schurle A study of the real number system including the basic field operations, the order relation and absolute value; solutions of equations and inequalities; sets, functions and relations; graphing; brief treatment of trigonometry. (Credit not given for MAT 101, 103A, 103B where credit is awarded for MAT 103.)	(3)	8:00-9:30	BRND 101
MAT 122-1	*Elements of Statistics* Instructor: Pyles Prerequisite: MAT 101 or 103. An introduction to the principles of statistical measures and hypothesis testing. Mean, variance, standard deviation; confidence intervals; binomial and normal distributions; contingency tables, chi-square test; nonparametric tests including the sign test and rank sum test, the t-test, linear regression, correlation and an introduction to analysis of variance and multiple regression.	(3)	8:00-9:30	BRND 105

Course No.	Title		Time	Room No.
MAT 122-2	*Elements of Statistics* Instructor: Pyles	(3)	10:00-11:30	BRND 104
MAT 122-N	*Elements of Statistics* Instructor: Stavrakas	(3)	7:40-9:10	BRND 104
MAT 122-101	*Elements of Statistics* (SBS) Instructor: Wright	(3)	12:30-2:00	BRND 103
MAT 143-N	*Differential Calculus I* Instructor: Allen Prerequisite: MAT 104 with a grade of C or better. Limits in R^n; continuity of $R^n \to R$ functions; differential calculus of $R \to R^n$ functions; extreme values; concavity; curve sketching; velocity and acceleration, related rates.	(3)	6:00-7:30	BRND 104
MAT 244-1	*Integral Calculus II* Instructor: Porterfield Prerequisite: MAT 144 with a grade of C or better. Multiple integration, iterated integrals, series, improper integrals.	(3)	10:00-11:30	BRND 101
MAT 350-1	*Selected Topics in Algebra* Instructor: Niccolai Prerequisite: Consent of the department. Selected topics from the algebra of groups, rings, fields and linear algebra (suitable for certificate renewal credit.)	(3)	12:30-2:00	BRND 104
MAT 403-1	*Arithmetic in the School* Instructor: Wright Prerequisite: MAT 101 or equivalent. A study of the number systems with emphasis placed upon the basic concepts and meanings, properties of addition, multiplication, inverses, systems of numeration, and a number line appropriate for each grade. (Does not count toward a major in mathematics.)	(3)	4:30-6:00	BRND 103
COMPUTER SCIENCE				
CSC 100-1	*Algorithmic Languages I* Instructor: Niccolai Prerequisite: MAT 101 or 103. An introduction to digital computing techniques through the study of Fortran IV. Various numerical and nonnumerical algorithms will be studied, flow-charted, programmed and documented. Concepts such as computer hardware, computer application areas, etc., will be introduced when appropriate.	(3)	10:00-12:00	SMTH 201

Course No.	Title		Time	Room No.
CSC 100-N	*Algorithmic Languages I* Instructor: Stavrakas	(3)	5:30-7:30	SMTH 201
NURSING				
NUR 102-1	*Ecology of Man* Instructor: Jernigan The focus of the course is directed toward understanding the relationship of the ill person to his family and community. Major health problems and facilities provided by society for meeting health needs will be included in the content.	(3)	11:00-12:30	PE 227
NUR 201-1	*Fundamentals of Nursing I* MF Instructor: Mauldin Prerequisite or corequisite: NUR 102. Study of the basic concepts and principles essential for the nursing care of adults and children. Emphasis is placed on the correlation of principles of nursing with concepts of behavioral and natural sciences.	(4)	8:00-10:30	PE 227
NUR 201-L01	*Fundamentals of Nursing I* TuWTh Instructor: Norris Some laboratory sessions are held in Wesley Nursing Center. Students will wear their nurse uniforms.		7:30-12:30	PE 227
PHILOSOPHY				
PHI 201-1	*Introduction to Philosophy* Instructor: Presler An introduction to some of the basic concepts and problems of philosophy. Typical problems are freedom and determinism, mind-body interaction, the status of moral judgments, and the problem of perception. Readings from the works of representative philosophers, both classical and contemporary.	(3)	12:30-2:00	ROWE 125
PHI 201-2	*Introduction to Philosophy* Instructor: Presler	(3)	10:00-11:30	ROWE 115
PHI 205-1	*Deductive Logic* Instructor: Shumaker A first course in the general principles of deductive logic, both classical and symbolic, with emphasis on the use of formal logic in analysis of ordinary language discourse.	(3)	8:00-9:30	ROWE 125

Course No.	Title		Time	Room No.
PHI 301-1	*Ethics* Instructor: Shumaker A study of the development of ethical thought in ancient and modern times, with special references to present day ethical problems. Readings selected from classical and contemporary sources.	(3)	10:00-11:30	ROWE 125
PHYSICS				
PHY 101-N	*Introductory Physics I* Instructor: Mayes Prerequisite or corequisite: Mathematics 101 or Mathematics 103. Introduction to the fundamental principles of natural phenomena. Topics will be selected from traditional classical subjects (e.g., Neutonian mechanics, electromagnetism) and more recent developments in order to illustrate the logical structure of modern sicence.	(4)	6:00-7:30	KNDY 107
PHY 101-L01	*Laboratory* TuWTh Instructor: Vermillion		2:10-5:00	KNDY 113
PHY 101-LN	*Laboratory* TuWTh Instructor: Vermillion		7:40-10:20	KNDY 113
PHY 222-1	*Waves and Thermal Physicas* Instructor: Mayes Prerequisites: Physics 221 or EM 211; MAT 143 and 144. Fluid mechanics and elastic properties of matter; oscillations and waves in elastic media; sound; heat and an introduction to thermodynamics and the kinetic theory of gases.	(3)	12:30-2:00	SMTH 301
POLITICAL SCIENCE				
PSC 201-1	*Introduction to American Politics* Instructor: McCoy Role of the President, Congress, Supreme Court and national administrative agencies in the American political system. Relationship between the American people and their political institutions with emphasis upon political culture, the electoral process, interest groups, political communication, and the international commitments of the United States.	(3)	8:00-9:30	BRND 102
PSC 201-2	*Introduction to American Politics* Instructor: Brenner	(3)	12:30-2:00	BRND 108

Course No.	Title		Time	Room No.
PSC 203-1	*Introduction to International Politics* Instructor: Jamgotch Analysis of politics among nations: material and psychological sources of national power, the role of law, force, and diplomacy in world politics, problems of peace and disarmament, and international organizations.	(3)	10:00-11:30	DEN 106
PSC 311-1	*The President and Congress* Instructor: McCoy Analysis of the role of the President and Congress in the American political system, and the interrelationships of the two branches in the policy-making arena.	(3)	10:00-11:30	BRND 102
*PSC 317-1	*Law and Society* Instructor: Brenner A study of the relationship between law and society.	(3)	10:00-11:30	BRND 105
PSC 335-1	*Political Violence* Instructor: Backman The emphasis of this course, while drawing on examples from contemporary American and foreign scenes, is on examining manifestations of violent political behavior, such as pathological violence, conspiratorial violence, collective violence, and governmental violence.	(3)	8:00-9:30	BRND 108
PSC 335-2	*Political Violence* Instructor: Backman	(3)	10:00-11:30	BRND 108
*PSC 345-1	*Government and Politics of the Soviet Union* Instructor: Jamgotch The origins of Bolshevism and the substance and role of Marxist-Leninist ideology. The structure and functions of the Communist Party of the Soviet Union (CPSU). The principles of Soviet politics and the instruments of rule. The Soviet political system in transition and its relationship to world communism.	(3)	12:30-2:00	BRND 102
PSC 496-1	*Topics in American Politics* Instructor: Staff An intensive study of a topic in American politics. Topics chosen may vary from semester to semester. A student may take more than one course under this number.	(3)	TBA	

* Open to Graduates and Undergraduates

Course No.	Title		Time	Room No.
PSC 498-1	*Selected Topics in International Relations* Instructor: Staff An intensive study of a topic in international relations. Topics may vary from semester to semester. A student may take more than one course under this number.	(3)	TBA	
PSYCHOLOGY				
PSY 101-1	*General Psychology* Instructor: Sohn Survey of general psychology as a behavior science.	(3)	10:00-11:30	DEN 111
PSY 101-L01	*Laboratory* MW Instructor: Staff	(1)	1:10-4:00	WINN 102
PSY 101-L02	*Laboratory* TuTh Instructor: Staff	(1)	1:10-4:00	WINN 102
PSY 202-1	*Educational Psychology* Instructor: Puttick PSY 201 is suggested prerequisite. The psychology of learning; problems related to concept formation and application of behavior modification techniques to the classroom.	(3)	10:00-11:30	DEN 120
PSY 210-1	*Development Psychology* Instructor: Haskett Prerequisite: PSY 101. A detailed discussion of the principle of psychological change from infancy to old age, with a consideration of genetic, physiological and environment determinants.	(3)	8:00-9:30	WINN 109
PSY 220-1	*Child Psychology* Instructor Haskett Prerequisite: PSY 201. Remedial measures suggested in dealing with early child tendencies which might lead to serious school and personality difficulties. Operant and respondent learning, imitation and language development.	(3)	10:00-11:30	WINN 109
PSY 240-1	*Experimental Psychology* Instructor: Sohn Prerequisite: Psychology 101 and 101 Lab and Math 122. An introduction to the experimental approach to behavior study, including experimental design and the use of statistics in scientific research.	(4)	12:30-2:00	WINN 109

Course No.	Title		Time	Room No.
PSY 240-L01	*Laboratory* TuTh Instructor: Sohn		2:10-5:00	WINN 112
PSY 451-1	*Physiological Psychology* Instructor: Grimsley Prerequisite: PSY 201. The relationship of the physiological systems to integrated behavior. Emphasis on neural aspects of behavior and current studies in reaction to drug and other stimuli.	(3)	10:00-11:30	DEN 202
PSY 490-1	*Individual Research* Instructor: Staff Prerequisite: permission of the department. A course allowing the senior psychology major an opportunity to initiate design, and conduct an original research problem in his area of interest. May be repeated for credit.	(1)	TBA	
PSY 490-2	*Individual Research* Instructor: Staff	(2)	TBA	
PSY 490-3	*Individual Research* Instructor: Staff	(3)	TBA	
PSY 490-4	*Individual Research* Instructor: Staff	(4)	TBA	
RELIGION				
REL 201-1	*Hebrew Religious Thought* Instructor: St. Clair An introduction to the Hebrew religious tradition.	(3)	8:00-9:30	ROWE 134
REL 204-1	*Religion and Contemporary Culture* Instructor: St. Clair An introduction to the critical study of the religious dimension of human existence.	(3)	10:00-11:30	ROWE 134
SOCIOLOGY				
SOC 151-1	*Introduction to Sociology I* Instructor: Staff Introduction to sociology as a discipline, the sociological perspective, and the process of sociological inquiry emphasizing fundamental concepts, principles, and procedures.	(3)	10:00-11:30	MACY 201
SOC 203-1	*Cultural Anthropology* Instructor: Shapiro Introduction to the origins and development of cultures, their structure and functioning in primitive and the simpler	(3)	10:00-11:30	DEN 114

Course No.	Title		Time	Room No.
	modern societies, methods of cultural analysis, and theories of culture.			
SOC 321-1	*Human Ecology* Instructor: Staff Prerequisite: SOC 151. Examination of the patterns and principles of social adjustments to the physical environment, the distribution of communities and institutions, and the dynamics of ecological change.	(3)	12:30-2:00	MACY 201
SOC 325-1	*Urban Sociology* Instructor: Rent Prerequisite: SOC 151. Examination of the origin and development of cities, the ecological and social structure of city and region, the nature and functioning of urban institutions, and the process of urban decay and renewal.	(3)	10:00-11:30	DEN 109
*SOC 355-1	*Sociological Inquiry: Methods of Verification* Instructor: Bertoli Prerequisite: SOC 354 and three semester hours of statistics, or consent of the instructor. Examination and application of research principles and techniques for the verification of sociological propositions, including the formulation of the problem, the design of the research, and the collection, analysis and interpretation of the data.	(4)	8:00-9:30	SMTH 217
*SOC 355-L01	*Laboratory* TuTh Instructor: Bertoli		12:30-2:00	MACY 206
*SOC 456-1	*Seminar in Advanced Sociological Inquiry* Instructor: Rent Prerequisite: SOC 355. Synthesis and utilization of basic sociological principles and the techniques in supervised independent theorization and verification, including the presentation of projects to seminar members and departmental faculty for evaluation and criticism.	(3)	12:30-2:00	WINN 216
*SOC 490A-1	*Seminar: Cultural Anthropology* Instructor: Shapiro Prerequisite: consent of the department. Use of the concept of culture to analyze our own as well as other societies. Students will	(3)	12:30-2:00	WINN 207

* Open to Graduates and Undergraduates.

Course No.	Title		Time	Room No.
	present individual papers; emphasis will be on discussion of readings that will include case studies as well as theoretical materials.			
*SOC 495-1	*Directed Individual Study* Instructor: Staff Prerequisite: consent of the department. Supervised investigation of a sociological problem of special interest to the student. May be repeated for credit. *Students must obtain contract for directed individual study from the sociology department prior to registration.*	(1)	TBA	
*SOC 495-2	*Directed Individual Study* Instructor: Staff	(2)	TBA	
*SOC 495-3	*Directed Individual Study* Instructor: Staff	(3)	TBA	
*SOC 495-4	*Directed Individual Study* Instructor: Staff	(4)	TBA	
SPANISH				
SPA 101-1	*Elementary Spanish* Instructor: McLeod Introduction to Spanish, with emphasis on auditory comprehension, oral production and control of structure.	(4)	8:00-9:30	MACY 207
SPA 101-L01	*Laboratory* Instructor: McLeod		10:00-11:00	MACY 106
SPA 201-1	*Intermediate Spanish* Instructor: Gleaves Prerequisite: SPA 102 or permission of department. Reinforcement and expansion of skill mastery developed in elementary courses on basis of grammar review and conversation.	(4)	12:30-2:00	MACY 207
SPA 201-L01	*Laboratory* Instructor: Gleaves		11:00-12:00	MACY 106
SPA 405-1	*The Golden Age of Spanish Literature II* Instructor: Hopper Prerequisite: two 300-level courses or permission of department. Study of works of the leading dramatists and poets of the period with emphasis on Lope, Tirso de Molina, Ruiz de Alarcon and Calderon. Lectures, discussions and reports on basis of extensive collateral readings. Course conducted in Spanish.	(3)	8:00-9:30	MACY 206

Exam Schedule for First Summer Session

If Class Meeting Time Is:	*The Examination Will Be:*
8:00	8:00 to 11:00, Monday, July 9
10:00	8:00 to 11:00, Tuesday, July 10
12:30	12:30 to 3:30, Monday, July 9
1:30-2:00-2:30	12:30 to 3:30, Tuesday, July 10
6:00	6:00 to 9:00, Monday, July 9
7:30	6:00 to 9:00, Tuesday, July 10

Second Summer Session

Course No.	Title		Time	Room No.
ENGLISH				
ENG 312-1	*Shakespeare* Instructor: Moose Twelve of his major plays from the comedies, tragedies, and histories.	(3)	10:00-11:30	WINN 209
*ENG 401-1	*Modern Literary Criticism* Instructor: McCall Critical theories of the modern schools.	(3)	10:00-11:30	WINN 205
ENG 612-1	*Shakespeare's Tragedies* Instructor: Moose Source materials, textural problems, and stage conventions of selected tragedies, chosen primarily from the period of the great tragedies, illustrating Shakespeare's dramaturgy.	(3)	12:30-2:00	DEN 202
ENG 613-1	*Milton* Instructor: McCall The complete poetry and selections from the prose.	(3)	12:30-2:00	WINN 203
ENG 680-1	*Seminar in English Literature: Modern Fiction* Instructor: Burne Close study of selected fiction from modern England and Europe.	(3)	2:30-4:00	WINN 203
ENG 690-1	*Directed Readings* Instructor: Staff	(3)	TBA	

* Open to Graduates and Undergraduates

Course No.	Title		Time	Room No.
GEOGRAPHY AND EARTH SCIENCES				
*GGY 344-1	*Weather and Climate* Instructor: Bedford A study of the elements and controls of weather and climate; world patterns of climate; and the relationship of climate to man's activity.	(3)	10:00-11:30	SMTH 347
HISTORY				
HIS 361-1	*Britain to 1485* Instructor: Abernathy Survey of British history with emphasis on institutional, cultural, economic, and imperial developments.	(3)	2:30-4:00	DEN 117
HIS 391-1	*History of North Carolina* Instructor: Perzel Emphasis on the colonial developments and on the constitutional, educational, and transportation developments of the antebellum period.	(3)	12:30-2:00	DEN 114
HIS 650A-1	*Crises in Tudor-Stuart England* Instructor: Abernathy Socio-economic religious, political, and constitutional crises in Tudor and Stuart England.	(3)	12:30-2:00	DEN 117
HIS 693-1	*Historiography and Methodology* Instructor: Perzel A study of the historian and his philosophical and methodological approach.	(3)	2:30-4:00	DLTN 018
HUMAN DEVELOPMENT AND LEARNING				
Phase I	Explorations in Human Potential			
HDL 600-1	*Explorations in Human Potential* **A. The Person and School in Urban Society** Instructor: Pleasants	(3)	8:00-9:30	BRND 104
	B. The Facilitation of Meaning Instructor: Antonelli	(3)	8:00-9:30	SMTH 203
	C. Children and Youth Instructor: Powers A course designed to explore in depth the identification, development and release of human potential. Emphasis will be given to	(3)	8:00-9:30	SMTH 204

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Course No.	Title		Time	Room No.
	techniques, relationships, and programs which develop potential. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. The Person and School in Urban Society, B. The Facilitation of Meaning, C. Children and Youth.			
HDL 600-2	*Explorations in Human Potential*			
	A. The Person and School in Urban Society	(3)	10:00-11:30	SMTH 301
	Instructor: Armstrong			
	B. The Facilitation of Meaning	(3)	10:00-11:30	SMTH 203
	Instructor: Antonelli			
	C. Children and Youth	(3)	10:00-11:30	SMTH 226
	Instructor: Staff			
HDL 606-1	*Adjustment Problems, Children and Youth*	(3)	10:00-11:30	SMTH 306
	Instructor: Powers			
	A study of adjustment problems from childhood and adolescence in relation to theorectical postulates and to school problems. Special emphasis is given to problems of behavior and attitudes toward learning and relationships.			
Phase II	Meaning and Growth in Teaching/ Learning Relationships			
HDL 620-1	*Curriculum Theory*			
	A. Meaning and Growth	(3)	8:00-9:30	SMTH 348
	Instructor: Smith			
	B. Creativity and Experiences	(3)	8:00-9:30	MACY 210
	Instructor: Sadoff			
	C. Strategies and Designs	(3)	8:00-9:30	SMTH 301
	Instructor: Armstrong			
	A study of the determinants of curriculum as they relate to facilitation of the transition from theory to practice. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. Meaning and Growth, B. Creativity and Experiences, and C. Strategies and Designs. Emphasis is placed on research and experimentation in the development of theory, processes, materials, and relationships in curriculum design.			

Course No.	Title		Time	Room No.
HDL 620-2	*Curriculum Theory*			
	A. Meaning and Growth Instructor: Smith	(3)	10:00-11:30	SMTH 348
	B. Creativity and Experiences Instructor: Sadoff	(3)	10:00-11:30	MACY 210
	C. Strategies and Designs Instructor: Mork	(3)	10:00-11:30	DLTN 006
HDL 625-1	*Concepts of Teaching and Learning*			
	B. Language Development and Reading Instructor: Staff	(3)	8:00-9:30	SMTH 226
	A course designed to provide the student with an opportunity to critically examine current trends and practices in particular areas such as: A. Integrated Studies, and B. Language Development and Reading.			
HDL 630-1	*Examination and Appraisal of Reading* Instructor: Hackney	(3)	10:00-11:30	SMTH 351
	Aspects of the reading program ranging from readiness to diagnostic and remedial techniques. Current practices and materials used in reading programs are investigated and evaluated. Emphasis will be placed on a flexibility of programs to meet the learning needs of individual students.			
HDL 635-1	*Learning Media, Resources, and Technology* Instructor: Mork	(3)	8:00-9:30	DLTN 006
	The selection, use and evaluation of technological innovations in instructional media will be studied. Laboratory experiences will emphasize media application in the enrichment of the instructional program.			
Phase III	The Helping Relationship			
HDL 660-1	*Behavioral Analysis of Administration* MWTh Instructor: Hackney	(3)	4:30-7:00	MACY 206
	An extensive study of the behavioral components of administrative theory, organization, decision making, and planning for educational development. An appraisal of significant functions, techniques, practices and problems as they relate to the public school systems, to other social institutions, with the system of social and governmental entities.			

Course No.	Title		Time	Room No.
HDL 663-1	*Development Approaches to the Theory and Practices of Guidance* Instructor: Burke	(3)	10:00-11:30	MACY 208
	A study of guidance and counseling as a developmental concept with emphasis upon the philosophical, social, and psychological bases for the helping relationship. Experiences are provided to facilitate the necessary competencies—self-analysis, value judgments, and the creation of relationships needed to facilitate the growth of others toward personhood.			
HDL 663-2	*Developmental Approaches to the Theory and Practices of Guidance* MWTh Instructor: Staff	(3)	4:30-7:00	DLTN 006
HDL 665-1	*Analyzing and Developing Approaches to the Helping Relationships*			
	C. Counseling Instructor: Staff	(3)	10:00-11:30	SMTH 328
	D. Supervision Instructor: Pleasants	(3)	10:00-11:30	MACY 206
	A course designed for the study of ways, means, and concepts of improving instruction, learning, and development through the helping relationship. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. Person to Person Relationships, B. Group Process and Behavior Change, C. Counseling, D. Supervision.			
HDL 665-2	*Analyzing and Developing Approaches to the Helping Relationships* MWTh	(3)	4:30-7:00	SMTH 327
	C. Counseling Instructor: Staff			
Phase IV	Experience and Commitment in Human Development and Learning			
HDL 570-1	*Selected Topics in Human Development and Learning*			
	A. Living/Learning Styles Instructor: Staff	(3)	TBA	Oaklawn School
	C. Developmental Disabilities Instructor: Rollins	(9)	TBA	Oaklawn School
	(June 15-August 16—A special nine week program of study and clinical experiences with children. A cooperative program be-			

Course No.	Title	Time	Room No.
	tween the University and Charlotte-Mecklenburg Schools. Admission only by special approval.) Prerequisites: HDL 201 and permission of the College of Human Development and Learning. Topics and special problems chosen in relation to human learning, ideas, practices, significant movements, or detailed study of models for human learning. Seminars, independent study, and clinical experiences. May be repeated for credit with approval.		
HDL 671-1	*Seminar and Internship in Human Development and Learning* B. **Counseling** (3) Instructor: Burke Prerequisite: Permission of the College of Human Development and Learning. Supervised experiences in observation, involvement, and administrative participation in clinical settings in schools, clinics, learning centers, social agencies, and other centers devoted to human development and learning. Emphasis is given to independent experiences and to experience as a member of a learning team in relation to behavior, behavior analysis, and to the personal and professional growth of the intern in: A. Teaching, B. Counseling, C. Administration, D. Supervision, and E. Leadership. Seminars, held concurrently with the internship experience, are designed to critically analyze behavior, develop materials, to study administrative models, and to examine theory in relation to practice. May be repeated for different experiences.	(June 15- August 16) TBA	
HDL 671-2	*Seminar and Internship in Human Development and Learning* B. **Counseling** (6) Instructor: Burke	(June 15- August 16) TBA	
HDL 672-1	*Problems in Human Development and Learning* (3) Instructor: Staff Prerequisite: Permission of the College of Human Development and Learning. Designed to permit students to conduct action research on selected problems, guided research, and individual project work under the direction of a staff member. This course	TBA	

Course No.	Title		Time	Room No.
	may be repeated for credit with the approval of the College of Human Development and Learning.			
HDL 672-2	*Problems in Human Development and Learning* Instructor: Staff	(6)	TBA	
POLITICAL SCIENCE				
*PSC 301-1	*Political Socialization* Instructor: Fleitas The study of the processes by which the political culture of the society is transmitted, formally and informally, to individual members. The course examines the learning process, the agents of socialization, the content of the learning, and the consequences of political socialization for the functioning of the political system.	(3)	8:00-9:30	DEN 215
*PSC 305-1	*Electoral Behavior* Instructor: Fleitas An examination of the psychological, sociological, and political variables that influence voting behavior and that affect electoral stability and change. The course emphasizes studies derived from survey research.	(3)	10:00-11:30	BRND 103
PSC 496-1	*Selected Topics in American Politics* Instructor: Staff An intensive study of a topic in American Politics. Topics chosen may vary from semester to semester. A student may take more than one course under this number.	(3)	TBA	
PSYCHOLOGY				
*PSY 501-1	*Psychology of Exceptional Children* Instructor: Staff Assessing the exceptional child. Emphasis on current research in several diagnostic categories.	(3)	8:00-9:30	MACY 208
*PSY 502-1	*Adjustment Problems of the Disadvantaged* Instructor: Diamant A seminar concerned with such issues as racial attitudes, prejudice, and poverty. As-	(3)	12:30-2:00	DEN 111

* Open to Graduates and Undergraduates.

Course No.	Title		Time	Room No.
	signed reading and discussion deal with the application of psychological principles to these problems. Contributing lecturers with professional experience with problems of the disadvantaged will participate.			
*PSY 503-1	*Psychology of Mental Retardation* Instructor: Staff An intensive study of the psychological and sociological aspects of mental retardation in relation to adjustment and educational development. Emphasis on current research and diagnostic categories.	(3)	10:00-11:30	MACY 207
*PSY 504-1	*Tests and Measurements* Instructor: Windholz Prerequisite: PSY 201. A survey of psychological and educational measurements in current use. Emphasis will be placed on structure, administration, and application of groups tests. Individual tests such as Stanford Binet, WISC, and WAIS will be reviewed.	(3)	12:30-2:00	DEN 206
*PSY 505	*Advanced Personality Theory* Instructor: Diamant A critical evaluation of the major personality theories including an extensive survey of current research.	(3)	10:00-11:30	DEN 217
*PSY 514-1	*Methods of Student Evaluation* Instructor: Windholz A practical course of construction of teacher-made evaluation procedures. Special emphasis will be given to the reconstruction and item analysis of both essary and restricted response achievement tests.	(3)	10:00-11:30	MACY 205
PSY 490-1	*Individual Research* Instructor: Staff Prerequisite: permission of the department. A course allowing the senior psychology major an opportunity to initiate design, and conduct an original research problem in his area of interest. May be repeated for credit.	(1)	TBA	
PSY 490-2	*Individual Research* Instructor: Staff	(2)	TBA	
PSY 490-3	*Individual Research* Instructor: Staff	(3)	TBA	
PSY 490-4	*Individual Research* Instructor: Staff	(4)	TBA	

* Open to Graduates and Undergraduates.

Course No.	Title		Time	Room No.
RELIGION				
REL 203-1	*Eastern Religions* Instructor: Staff A survey of selected East Asian religions and Islam.	(3)	12:30-2:00	ROWE 134
SOCIOLOGY				
*SOC 372-1	*Sociology of Deviant Behavior* Instructor: Adams Prerequisite: SOC 151. Examination of the forms, causes, consequences, and control of deviant behavior.	(3)	10:00-11:30	SMTH 204
*SOC 372-N	*Sociology of Deviant Behavior* MTuWTh Instructor: Adams	(3)	6:00-8:00	MACY 201
*SOC 490-1	*Topics in Sociology: Adolescence and Youth* Instructor: Goodnight Prerequisite: consent of the department. May be repeated for credit.	(3)	8:00-9:30	MACY 201
*SOC 495-1	*Directed Individual Study* Instructor: Staff Prerequisite: consent of the department. Supervised investigation of a sociological problem of special interest to the student. May be repeated for credit. *Students must obtain contract for directed individual study from sociology department prior to registration.*	(1)	TBA	
*SOC 495-2	*Directed Individual Study* Instructor: Staff	(2)	TBA	
*SOC 495-3	*Directed Individual Study* Instructor: Staff	(3)	TBA	
*SOC 495-4	*Directed Individual Study* Instructor: Staff	(4)	TBA	

* Open to Graduates and Undergraduates.

Exam Schedule for Second Summer Session

If Class Meeting Time Is:	*The Examination Will Be:*
8:00	8:00 to 11:00, Thursday, July 26
10:00	8:00 to 11:00, Friday, July 27
12:30	12:30 to 3:00, Thursday, July 26
1:30-2:00-2:30	12:30 to 3:30, Friday, July 27
6:00	6:00 to 9:00, Thursday, July 26
7:30	6:00 to 9:00, Friday, July 27

Third Summer Session

Course No.	Title		Time	Room No.
ACCOUNTING				
ACC 202-1	*Principles of Accounting* Instructor: Corbett Prerequisite: ACC 201. A study of basic accounting theory; corporate financing and reporting; financial planning; and an introduction to cost accounting.	(3)	8:00-9:30	DEN 115
ACC 202-2	*Principles of Accounting* Instructor: Corbett	(3)	10:00-11:30	DEN 115
ACC 202-3	*Principles of Accounting* Instructor: Whisnant	(3)	12:30-2:00	DEN 115
ACC 202-L01	*Laboratory* M Instructor: Corbett		2:30-4:30	DEN 109
ACC 202-L02	*Laboratory* Tu Instructor: Whisnant		2:30-4:30	DEN 102
ACC 371-1	*Cost Accounting* Instructor: Drucker Prerequisite: ACC 202. A study of cost determination and control. Emphasis will be placed on managerial uses of cost accounting.	(3)	8:00-9:30	DEN 105
ACC 371-L01	*Laboratory* W Instructor: Drucker		2:30-4:30	DEN 102
ACC 375-1	*Intermediate Accounting II* Instructor: Drucker Prerequisite: ACC 374. A continuation of ACC 374 with an emphasis on accounting problems peculiar to corporate and partnership organization and governmental units.	(3)	10:00-11:30	DEN 206
ACC 375-L01	*Laboratory* Th Instructor: Drucker		2:30-4:30	DEN 102

Course No.	Title		Time	Room No.
ARCHITECTURE				
ARC 102-1	*Studio/Seminar* Instructor: Busey and Mitchell Prerequisite: Major in College of Architecture, ARC 101. Non-major, consent of Dean. Development of skill in the synthesis of geophysical determinants inherent in architectural problems in the physical environment. A sequence of related projects in which the student develops an understanding of the relationships between natural phenomena and architecture.	(7)	8:30-11:30 1:30-4:30	ATK 318
ARC 202-1	*Studio/Seminar* Instructor: Newell and Mitchell Prerequisite: Major in College of Architecture, ARC 201. Non-majors, consent of Dean. Development of knowledge and skill in the analysis and synthesis of technological determinants of architectural problems in the physical environment. A sequence of related projects in which the student develops the ability to analyze and use his analyses in understanding the relationships between technological processes, methods, and tools and architecture.	(7)	8:30-11:30 1:30-4:30	ATK 318
BIOLOGY				
BIO 221-1	*Animal Biology* Instructor: Menhinick Prerequisite: Open to majors and non-majors; one course in biology prerequisite for non-majors. The morphology, function, development, phylogeny, and ecology of the principal invertebrate and vertebrate types.	(4)	12:30-2:00	KNDY 214
BIO 221-L01	*Laboratory* TuWTh Instructor: Menhinick		2:10-5:00	KNDY 214
BIO 335-1	*Human Genetics* Instructor: Hildreth Prerequisite: One semester of biology. The inheritance of physical and mental characteristics in man. Effects of mutation, selection, migration, and environment are considered.	(3)	10:00-11:30	KNDY 107
BIO 363-1	*Field Biology* Instructor: Hechenbleikner Prerequisite: Open to students in secondary education and to others with consent of de-	(4)	12:30-2:00	KNDY 120

Course No.	Title	Time	Room No.
	partment. Roles of soils, water, and climate on plant growth and distribution; plant succession and its effect on animal distribution; and identification and life histories of selected plants and animals.		
BIO 363-L01	*Laboratory* TuWTh Instructor: Hechenbleikner	2:10-5:00	KNDY 221
BIO 497-1	*Investigations in Biology* (1-4) Instructor: Staff May be repeated for credit. Prerequisite: Permission of the department. A course designed to allow the senior biology major to initiate a research project in his field of interest.	TBA	
BUSINESS ADMINISTRATION			
BUS 311-1	*Marketing* (3) Instructor: Campbell Prerequisite: ECO 202. Analysis of the activities which direct the flow of goods and services from producers to consumers in modern economic systems; focuses on development of the student's ability to perceive and evaluate marketing problems and policies.	8:00-9:30	DEN 205
BUS 316-1	*Financial Management* (3) Instructor: Walls Prerequisite: ACC 202. Principles and problems of business financing. Particular emphasis on financial planning and control.	8:00-9:30	DEN 102
BUS 316-2	*Financial Management* (3) Instructor: Walls	10:00-11:30	DEN 102
BUS 380-1	*Business Law* (3) Instructor: Williams A study of the legal environment within which business operates, topics covered include contracts, sales, negotiable instruments, agency, partnerships, and corporations.	10:00-11:30	DEN 103
BUS 382-1	*Sales, Credit, and Security Transactions* (3) Instructor: Williams The study of the Uniform Commercial Code. Subjects covered include sale of goods, commercial paper, bank deposits and collections, letters of credit, bulk transfers, documents of title, investment securities and secured transactions.	8:00-9:30	DEN 103

Course No.	Title		Time	Room No.
BUS 400-1	*Industrial Management* Instructor: O'Brien Prerequisite: ECO 202, ACC 202, and MAT 120. The principles underlying the solution of problems in organization and operation of industrial enterprises. Emphasis placed on the management functions of planning, organizing, actuating, and controlling business activity.	(3)	8:00-9:30	DEN 203
BUS 444-1	*Organization Theory* Instructor: Ruhe Prerequisite: ECO 202 and senior standing. An application of traditional and behavioral concepts to business organization and decision making. Primarily a study of the process of decision making in the business organization including the more modern feed back systems of group behavior.	(3)	10:00-11:30	DEN 205
CHEMISTRY				
CHE 102-1	*Principles of Chemistry* Instructor: Cooke Prerequisite: Chemistry 101. Continuation of Chemistry 101.	(4)	12:30-2:00	DEN 109
CHE 102-L01	*Laboratory* TuWTh Instructor: Walsh		8:30-11:20	KNDY 320
CHE 102-L02	*Laboratory* TuWTh Instructor: Cooke		2:10-5:00	KNDY 320
CHE 104-1	*General Chemistry* Instructor: Norman Designed primarily for non-science majors. Prerequisite: Chemistry 103. Continuation of Chemistry 103 including qualitative analysis.	(4)	12:30-2:00	KNDY 309
CHE 104-L01	*Laboratory* TuWTh Instructor: Norman		2:10-5:00	KNDY 309
CHE 232-1	*Organic Chemistry* Instructor: Crosthwaite Prerequisite: Chemistry 231. Continuation of CHE 231.	(4)	12:30-2:00	DEN 103
CHE 232-L01	*Laboratory* TuWTh Instructor: Bush		2:10-5:00	KNDY 310

CREATIVE ARTS

Creative Arts Majors (Art, Music, Theater) must obtain a *registration authorization form* in the Creative Arts office (ROWE 144) before reporting to the Gym for completion of the Registration process.

The following Creative Arts courses are for the *non-major* only. A maximum of six (6) hours may be elected in any session.

IMPORTANT — The INITIAL meeting for *all* sections of the 211, 212 and 213 courses will be held at 8:00 a.m. July 11th, for the third session, in the Rowe Buliding at the office of the faculty member offering the directed project.

CA 211A 011	*Directed Projects — Art*	Instructor: Anderson	(1)	ROWE 107
CA 211A 012	*Directed Projects — Art*	Instructor: Gatewood	(1)	ROWE 220
CA 211A 013	*Directed Projects — Art*	Instructor: Hybel	(1)	ROWE 219
CA 212A 011	*Directed Projects — Art*	Instructor: Anderson	(2)	ROWE 107
CA 212A 012	*Directed Projects — Art*	Instructor: Gatewood	(2)	ROWE 220
CA 212A 013	*Directed Projects — Art*	Instructor: Hybel	(2)	ROWE 219
CA 213A 011	*Directed Projects — Art*	Instructor: Anderson	(3)	ROWE 107
CA 213A 012	*Directed Projects — Art*	Instructor: Gatewood	(3)	ROWE 220
CA 213A 013	*Directed Projects — Art*	Instructor: Hybel	(3)	ROWE 219
CA 211M 021	*Directed Projects — Music*	Instructor: Booth	(1)	ROWE 274
CA 211M 024	*Directed Projects — Music*	Instructor: Gaither	(1)	ROWE 279
CA 212M 021	*Directed Projects — Music*	Instructor: Booth	(2)	ROWE 274
CA 212M 024	*Directed Projects — Music*	Instructor: Gaither	(2)	ROWE 279
CA 213M 021	*Directed Projects — Music*	Instructor: Booth	(3)	ROWE 274
CA 213M 024	*Directed Projects — Music*	Instructor: Gaither	(3)	ROWE 279
CA 211T 032	*Directed Projects — Theater*	Instructor: Beasley	(1)	ROWE 237
CA 212T 032	*Directed Projects — Theater*	Instructor: Beasley	(2)	ROWE 237
CA 213T 032	*Directed Projects — Theater*	Instructor: Beasley	(3)	ROWE 237

Course No.	Title		Time	Room No.
ECONOMICS				
ECO 202-1	*Principles of Economics — Micro* Instructor: Davis Topics considered include the operation of the pricing mechanism of a market economy, the industrial organization of our contemporary capitalistic economy, problems of economic concentration and of agriculture, the theory of income distribution, international economic relationships, and comparative economic systems.	(3)	10:00-11:30	DEN 217
ECO 202-2	*Principles of Economics — Micro* Instructor: Rogers	(3)	12:30-2:00	DEN 216
ECO 305-1	*Industrial Relations* Instructor: Davis Prerequisite: ECO 202. Systematic analysis of the sociological, economic, and political force affecting and affected by the work environment. Special emphasis on market	(3)	8:00-9:30	DEN 216

Course No.	Title		Time	Room No.
	structure, the small group, the legal environment, and union structure.			
ECO 324-1	*Managerial Economics* Instructor: O'Brien Prerequisites: ECO 202, ACC 202, MAT 122, and Computer Science 100. A consideration of economic problems of particular importance to business firms, with a view of using tools of economic analysis in managerial decision making.	(3)	10:00-11:30	DEN 203
ECO 370-1	*Monetary and Fiscal Policy* Instructor: Rogers Prerequisite: Economics 202. An examination of the nature and content of economic behavior of the American economy. This course deals primarily with a critical examination of monetary and fiscal tools and their application with a view toward full employment, economic growth, and price stability.	(3)	10:00-11:30	DEN 216
ENGINEERING				
LE 111-1	*The Man Made World I* Instructor: Bayer Concepts underlying the systems which relate directly to the life of the individual in terms of decision making. Emphasis on scientific ideas which are relevant to the student—which he should understand to participate in the decisions of an age of technology. Specific topics include decision making, optimization, modeling, patterns of change, and computers. This course is open to non-engineering students only.	(3)	10:00-11:30	SMTH 349
LE 390-1	*Special Topics in Environmental Control* Instructor: Bell Prerequisite: Junior standing. Study of a range of environmental problems of interest to the class. The tracing of problem cases to their technological origins, the identification of available, feasible, technological solutions to the specific problems treated. On site inspection of industrial sources of pollution will be made in a series of field trips. Open to non-engineering students; not open to environmental engineering majors.	(3)	8:00-9:30	SMTH 306

Course No.	Title		Time	Room No.
ESM 242-1	*Engineering Mechanics II* Instructor: Norem	(3)	8:00-9:30	SMTH 228
	Prerequisites: ESM 241, MAT 144. The dynamics of systems of particles: Impulse and momentum of a system of particles, moment of momentum, work and kinetic energy of a system of particles. Moments and products of inertia; principal moments of inertia and principal axes. The dynamics of rigid bodies: Euler's equations, work and energy equations of a rigid body, plane motion of a rigid body. Single degree of freedom vibrations.			
EAD 212-1	*Linear Analysis I* Instructor: Wayne	(3)	10:00-11:30	SMTH 227
	Prerequisite: EAD 211. Prerequisite or corequisite: MAT 271. Formulation of equations and the investigation of the transient and steady state solution of these equations with step, pulse and sinusoidal driving functions using classical methods. The vector transform as an introduction to sinusoidal steady state. Sinusoidal steady state and frequency response of networks.			
EAD 413-1	*Nonlinear Analysis* Instructor: Wayne	(3)	8:00-9:30	SMTH 227
	Prerequisite: EE 312. Solutions of nonlinear problems using numerical methods, graphical methods, phase plane plots, analysis of singular points, and analytical techniques. The use of analogs and duals for writing equations. The use of the analog computer and digital computer.			
EGR 252-1	*Basic Engineering Lab II* MWF Instructor: Smith	(1)	2:00-5:00	SMTH 326
	Prerequisite: EGR 251. Prerequisite or corequisite: MAT 271. Continuation of EGR 251, emphasizing use of digital and analog computer techniques.			
EGR 253-1	*Basic Engineering Lab III* MWF Instructor: Smith	(1)	2:00-5:00	SMTH 326
	Prerequisite: PHY 251; prerequisite or corequisite: EAD 211, MAT 271. A laboratory course designed to familiarize the student with experimental equipment and techniques of particular interest to engineers. Designed for students who already have			

Course No.	Title		Time	Room No.
	some laboratory experience, this course will draw from experiments used in EGR 251 and EGR 252 to adequately prepare the student for advanced engineering laboratory work. This course is not available for students with credit for EGR 251 or EGR 252. Lecture and laboratory hours to be arranged.			
ET 371-1	*Engineering Analysis I* Instructor: Mobley Prerequisite: ET 370 and differential and integral calculus. Methods of solving engineering problems which involve the differentiation and integration of algebraic, trigonometic, and logarithmic functions; use of integral tables.	(3)	10:00-11:30	SMTH 228
ECT 311-1	*Analysis of Linear Networks* Instructor: Elliott Prerequisite or corequisite: ET 370. Review of complex numbers and phasor notation. Steady state analysis of electrical networks using Kirchoff's laws; applications of various network theorems; magnetically coupled circuits; three-phase circuits.	(3)	1:00-2:30	SMTH 345
ENGLISH				
ENG 102-1	*English Composition* Instructor: Boger Introductory readings in varieties of literature and intensive practice in critical and expository writing.	(3)	10:00-11:30	WINN 214
ENG 102-2	*English Composition* Instructor: Meyer	(3)	12:30-2:00	WINN 214
ENG 202-1	*Engish Literature* Instructor: Horton Prerequisites: ENG 101 and 102. British literary masterpieces since 1700.	(3)	12:30-2:00	WINN 206
ENG 202-2	*English Literature* Instructor: Boger	(3)	2:30-4:00	WINN 214
ENG 204-1	*Major American Writers* Instructor: Meyer Prerequisites: ENG 101 and 102. Extensive readings in six to eight authors. Recommended for non-English majors who are working for teachers certificates.	(3)	2:30-4:00	WINN 206

Course No.	Title		Time	Room No.
ENG 325-1	*The Romantic Era, 1785-1832* Instructor: Robinson The development of the Romantic movement with emphasis on the works of Wordsworth, Coleridge, and other major poets.	(3)	2:30-4:00	WINN 207
ENG 327-1	*English Literature from 1870-1914* Instructor: Robinson British literature from Walter Pater to the 1st World War.	(3)	10:00-11:30	WINN 206
ENG 423-1	*The Modern British Novel* Instructor: Burne Representative British novels showing the philosophies and techniques affecting British fiction, from Hardy to the present.	(3)	8:00-9:30	WINN 207
*ENG 450-1	*Modern Poetry* Instructor: Grey Chief British and American poets of this century.	(3)	12:30-2:00	DEN 118
*ENG 461-1	*Modern English Grammar* Instructor: Hedges Prerequisite: ENG 331 or 332. A descriptive analysis of the structure of Modern English, with emphasis upon the transformational approach.	(3)	8:00-9:30	WINN 206
ENG 662-1	*Advanced Rhetoric* Instructor: Hedges Prerequisite: ENG 461 or permission of the instructor. The fundamental principles of classical rhetoric and an intense examination of the governing principles of the "new" or descriptive rhetoric.	(3)	10:00-11:30	WINN 207
ENG 680-1	*Seminar in English Literature: Modern Poetry* Instructor: Burne Intensive study of T. S. Eliot, William Butler Yeats, and other 20th century poets.	(3)	12:30-2:00	WINN 207
ENG 690-1	*Directed Reading* Instructor: Staff	(3)	TBA	
FRENCH				
FRE 102-1	*Elementary French* Instructor: Saman Prerequisite: FRE 101, or permission of the department. Continuation of FRE 101.	(4)	8:00-9:30	MACY 204
FRE 102-L01	*Laboratory* Instructor: Saman		10:00-11:00	MACY 106

* Open to Graduates and Undergraduates.

Course No.	Title		Time	Room No.
FRE 202-1	*Intermediate French* Instructor: Slechta Prerequisite: FRE 201, or permission of the department. Review grammar, composition, and conversation, based upon readings in French prose.	(4)	12:30-2:00	MACY 204
FRE 202-L01	*Laboratory* Instructor: Slechta		11:00-12:00	MACY 106
GEOGRAPHY AND EARTH SCIENCES				
GGY 102-1	*World Regional Geography* Instructor: Lord A world regional study which emphasizes the distinctly human responses of man to various geographic situations throughout the world. The nature and development of cultural regions will be studied.	(3)	8:00-9:30	SMTH 217
GLY 102-1	*Earth Science Geology* Instructor: Keller A study of the basic geological principles and processes in earth science; the earth as a planet; treatment of physical processes shaping the earth; earth materials and landforms.	(4)	10:00-11:30	SMTH 248
GLY 102-L01	*Laboratory* TuTh Instructor: Keller		2:00-5:00	SMTH 248
GGY 201-1	*Economic Geography* Instructor: Walcott A study of the location and functioning of economic activity with an emphasis on physical and human geographic factors in analyzing patterns of production, exchange, and consumption.	(3)	12:30-2:00	SMTH 218
*GGY 312-1	*Urban Geography* Instructor: Lord A study of the distribution, internal structure and functions of various types of urban developments.	(3)	12:30-2:00	SMTH 217
*GGY 317-1	*Geography of Transportation Systems* Instructor: Walcott The study of those geographical and human factors which affect the movement of goods and people from place to place. Emphasis will be placed on transportation routes and networks, commodity flow patterns, and the locational implications of freight rates.	(3)	10:00-11:30	SMTH 218

* Open to Graduate and Undergraduates.

Course No.	Title		Time	Room No.
*GGY 341-1	*Physiography of the United States* Instructor: Bedford A study of the physiographic regions of the United States, the genesis and pattern of the major landforms included within each, their distinctive characteristics, and their cartographic interpretation.	(3)	12:30-2:00	SMTH 217
*GGY 450-1	*Special Problems in Geography* Instructor: Staff Permission of department must be obtained and credit hours established in advance. May be repeated for credit. Tutorial study or special research problems.	(1)	TBA	
*GGY 450-2	*Special Problems in Geography* Instructor: Staff	(2)	TBA	
*GGY 450-3	*Special Problems in Geography* Instructor: Staff	(3)	TBA	
*GGY 450-4	*Special Problems in Geography* Instructor: Staff	(4)	TBA	
GERMAN				
GER 102-1	*Elementary German* Instructor: Merrill Prerequisite: GER 101 or permission of the department. Continuation of GER 101.	(4)	8:00-9:30	MACY 205
GER 102-L01	*Laboratory* Instructor: Merrill		10:00-11:00	MACY 106
GER 202-1	*Intermediate German* Instructor: Merrill Prerequisite: GER 201 or permission of the department. Continuation of GER 201. Review grammar, composition, and conversation, based upon readings in German prose.	(4)	12:30-2:00	MACY 205
GER 202-L01	*Laboratory* Instructor: Merrill		11:00-12:00	MACY 106
HEALTH AND PHYSICAL EDUCATION				
HED 101-1	*Health Education* MTuWTh Instructor: Staff A general introductory course. Basic ideas of human anatomy, physiology, and chemistry are applied toward an understanding of human health problems.	(1)	10:00-11:30	PE 229

* Open to Graduates and Undergraduates.

Course No.	Title		Time	Room No.
HED 409-1	*Health Education Laboratory* Instructor: Staff Health instruction, principles of health teaching for the elementary grades.	(3)	3:00-4:30	PE 227
PED 120-1	*Beginning Tennis* Instructor: Kingery The rules, history, basic skills and basic strategy.	(1)	10:00-11:30	Courts
PED 120-2	*Beginning Tennis* Instructor: Kingery	(1)	3:00-4:30	Courts
PED 409-1	*Physical Education Laboratory* Instructor: Staff Physical Education instruction, principles of physical education teaching for the elementary grades.	(3)	8:00-9:30	PE 229
HISTORY				
HIS 101-1	*Modern Western Civilization to 1815* Instructor: Dunkley This course commences with broad survey of ancient and medieval contributions to modern Western civilization and then treats intensively the development of Western civilization from the Renaissance to 1815.	(3)	10:00-11:30	DEN 117
HIS 103-1	*American History I* Instructor: Hall Survey of American history from the earliest times to 1865.	(3)	10:00-11:30	DEN 114
HIS 104-1	*American History II* Instructor: Josephson Survey of American history from 1865 to present.	(3)	8:00-9:30	DEN 11
HIS 313-1	*Russian History from 1917 to the Present* Instructor: Morrill A survey of the development of Soviet Russia, focusing upon the October 1917 Revolution, Lenin's years of rule, Stalin's rise to power, the Five Year Plans, and the years since World War II.	(3)	2:30-4:00	DEN 10
HIS 350-1	*Modern France* Instructor: Dunkley France from the Bourbon Restoration to the resignation of DeGaulle.	(3)	12:30-2:00	DEN 10

Course No.	Title		Time	Room No.
HIS 386-1	*American Foreign Relations, 1901 to the Present* Instructor: Josephson A study of American diplomatic history from the administration of Theodore Roosevelt to the present. Special emphasis will be placed upon the interaction between domestic, economic, political, and social changes and the formulation of American foreign policy.	(3)	10:00-11:30	DEN 118
*HIS 488-1	*American Social and Intellectual History since 1860* Instructor: Hall Continuation of History 487 from the Civil War to the present.	(3)	12:30-1:50	DLTN 018
HIS 694-1	*Readings in History* Instructor: Morrill Coverage of historical periods or topics through individually designed reading programs; scheduled conferences with the staff member. (May be repeated for credit.)	(3)	4:00-5:30	DEN 117

HUMAN DEVELOPMENT AND LEARNING

Phase I Explorations in Human Potential

HDL 201-1	*Introductory Explorations in Human Potential* Instructor: Staff An introductory course in the philosophical foundation of the educative process designed to explore the nature of man, and human potential, in relation to one's system of beliefs, values, and relationships. Emphasis is given to the analysis and development of the student's beliefs, his personhood, and to his role in relationships. Clinical experiences are provided to introduce the student to teaching/learning relationships and to a sociological orientation of growth and the school in modern society. Open to freshmen.	(3)	8:00-9:30	DEN 114
HDL 201-2	*Introductory Explorations in Human Potential* Instructor: Parker	(3)	10:00-11:30	MACY 201
HDL 201-3	*Introductory Explorations in Human Potential* Instructor: Staff	(3)	2:30-4:00	DEN 118

* Open to Graduates and Undergraduates.

Course No.	Title		Time	Room No.
Phase II	Meaning and Growth in Teaching/ Learning Relationships			
HDL 301-1	*Reading and the Language Arts* Instructor: Sapp Emphasis on oral and written communication, with special attention to the teaching of reading; appraisal of current programs and methods. This course required of all students planning to teach on the elementary level. Prerequisites: HDL 201, PSY 202.	(3)	8:00-9:30	DEN 213
HDL 303-1	*Elementary Education I: Organization and Curriculum* Instructor: Pollak A course designed to develop an understanding of the curriculum of the elementary school. Emphasis is placed on the role of the teacher in the design, organization and administration of the elementary school. Major consideration is given to approaches to instructional organization such as multi-age grouping and team teaching as they relate to the curriculum. Prerequisites: HDL 201, PSY 202.	(3)	8:00-9:30	DEN 117
HDL 303-2	*Elementary Education I: Organization and Curriculum* Instructor: Sapp	(3)	10:00-11:30	DEN 213
Phase IV	Experience and Commitment in Human Development and Learning			
HDL 570-1	*Selected Topics in Human Development and Learning* **A. Living/Learning Styles** Instructor: Pollak Prerequisite: HDL 201 and permission of the College of Human Development and Learning. Topics and special problems chosen in relation to human learning, ideas, practices, significant movements, or detailed study of models for human learning. Seminars, independent study, and clinical experiences. May be repeated for credit with approval.	(3)	TBA	TBA
MANAGEMENT				
MGT 662-1	*Administrative Practice II* Instructor: Ruhe The purpose of this course is to develop a student's ability to analyze organizations and plan their evolution. Problems in ad-	(3)	7:00-8:30 am	DEN 202

Course No.	Title		Time	Room No.
	ministrative leadership, marketing, production, and financial organizations are analyzed and simulated.			
MATHEMATICS				
MAT 120-1	*Calculus* Instructor: Johnson Prerequisite: MAT 101 or 103. A brief treatment of basic concepts of differential and integral calculus with applications to business and to the social and life sciences; an introduction to the elements of probability. Samples spaces, events, probability of an event, conditional probability, independent events.	(3)	8:00-9:30	BRND 103
MAT 120-2	*Calculus* Instructor: Embry	(3)	10:00-11:30	BRND 104
MAT 120-N	*Calculus* Instructor: Staff	(3)	6:00-7:30	BRND 105
MAT 122-1	*Elements of Statistics* Instructor: Roth Prerequisite: MAT 101 or 103. An introduction to the principles of statistical measures and hypothesis testing. Mean, variance, standard deviation; confidence intervals; binomial and normal distributions; contingency tables, chi-square test; nonparametric tests including the sign test and rank sum test, the t-test; linear regression, correlation and an introduction to analysis of variance and multiple regression.	(3)	10:00-11:30	BRND 101
MAT 122-2	*Elements of Statistics* Instructor: Staff	(3)	12:30-2:00	BRND 104
MAT 144-1	*Integral Calculus I* Instructor: Embry Prerequisite: MAT 143 with a grade of C or better. The Riemann integral of R→R functions; primitives and antiderivatives; methods of integration; special functions; the integral of $R \rightarrow R^n$ functions; are length; volumes and surfaces of revolution; work; total force.	(3)	8:00-9:30	BRND 105
MAT 144-N	*Integral Calculus I* Instructor: Staff	(3)	6:00-7:30	BRND 104

Course No.	Title		Time	Room No.
MAT 350-1	*Selected Topics in Geometry* Instructor: Staff	(3)	12:30-2:00	BRND 103
	Prerequisite: Consent of the department. Topics selected from Euclidean, non-Euclidean, transformational and objective geometries (suitable for certificate renewal).			
COMPUTER SCIENCE				
CSC 100-1	*Algorithmic Languages I* Instructor: Staff	(3)	10:00-12:00	SMTH 201
	Prerequisite: MAT 101 or 103. An introduction to digital computing techniques through the study of FORTRAN IV. Various numerical and non-numerical algorithms will be studied, flowcharted, programmed and documented. Concepts such as computer hardware, computer application areas, etc., will be introduced when appropriate.			
CSC 201-1	*Computers and Programming* Instructor: Ju	(3)	12:30-2:00	SMTH 201
	Prerequisite: CSC 100. Computer structure; symbolic coding, and assembly systems; macros; program segmentation and linkage; and an introduction to operating systems.			
NURSING				
NUR 202-1	*Fundamentals of Nursing II* MF Instructor: Norris	(4)	8:00-10:30	PE 227
	A continuation of NUR 201.			
NUR 202-L01	*Fundamentals of Nursing II* TuWTh Instructor: Sanders		7:30-12:30	PE 227
	Some laboratory sessions are held in Charlotte Memorial Hospital. Students will wear their nurse uniforms.			
PHILOSOPHY				
PHI 201-1	*Introduction to Philosophy* Instructor: Corkey	(3)	10:00-11:30	ROWE 125
	An introduction to some of the basic concepts and problems of philosophy. Typical problems are freedom and determinism, mind-body interaction, the status of moral judgments, and the problem of perception. Readings from the works of representative philosophers, both classical and contemporary.			

Course No.	Title		Time	Room No.
PHI 205-1	*Deductive Logic* Instructor: Staff A first course in the general principles of deductive logic, both classical and symbolic, with emphasis on the use of formal logic in analysis of ordinary language discourse.	(3)	8:00-9:30	ROWE 125
PHYSICS				
PHY 102-N	*Introductory Physics II* Instructor: Oberhofer Prerequisite: PHY 101. A continuation of PHY 101.	(4)	6:00-7:30	KNDY 107
PHY 102-LN	*Laboratory* TuWTh Instructor: Melton		7:40-10:20	KNDY 113
PHY 231-N	*Electricity and Magnetism* Instructor: Oberhofer Prerequisites: PHY 221 or 222; MAT 244. Electric and magnetic fields in free space and in matter; electrostatic potential and capacitance; trostatic potential and capacitance; elementary circuit theory; electromagnetic induction and inductance; introduction to Maxwell's equations.	(3)	7:40-9:10	SMTH 306
POLITICAL SCIENCE				
PSC 201-1	*Introduction to American Politics* Instructor: Bryant Role of the President, Congress, Supreme Court and national administrative agencies in the American political system. Relationship between the American people and their political institutions with emphasis upon political culture, the electoral process, interest groups, political communication, and the international commitments of the United States.	(3)	8:00-9:30	BRND 101
PSC 201-2	*Introduction to American Politics* Instructor: Dorin	(3)	10:00-11:30	BRND 108
PSC 202-1	*Introduction to Comparative Politics* Instructor: Mundt Political institutions in the contemporary world. An introduction to the concepts of government, the phenomena of conflict, power, order, and authority implicit in the	(3)	12:30-2:00	BRND 108

Course No.	Title		Time	Room No.
	term "government," as well as the various political systems and structures which men have established.			
PSC 322-1	*Contemporary Urban Problems and Policies* Instructor: Lyons A study of selected urban problems, including an analysis of the causes and consequences of governmental policies designed to cope with these problems. Topics of interest would include: crime and law enforcement, poverty and welfare, urban transportation, education, pollution, housing and redevelopment, and urban revenue and expenditure patterns.	(3)	8:00-9:30	BRND 102
PSC 331-1	*The Nature of Political Change* Instructor: Mundt Comparative study of political change with reference to problems of reform, revolution, and nation-building.	(3)	10:00-11:30	BRND 102
*PSC 383-1	*Administrative Behavior* Instructor: Bryant The role of the administrator and public bureaucracy in modern democratic society. Particular attention will be given to the interplay of forces created by executives, legislators, political parties and interest groups.	(3)	10:00-11:30	BRND 105
PSC 496A-1	*American Constitutional Law* Instructor: Dorin Examines the development of American constitutionalism, with a major emphasis on the roles played by the Supreme Court in the emergence of the American political system. Studies the Justices as intellectual personalities engaged in the formulation of national policies. Utilizes Supreme Court decisions and opinions, histories, biographies, and political science analyses to study the evolution of governmental powers and individual rights from colonial America through the end of the Roosevelt Court or Stone Court in 1946.	(3)	12:30-2:00	BRND 102

* Open to Graduates and Undergraduates.

Course No.	Title		Time	Room No.
PSC 496-1	*Selected Topics in American Politics* Instructor: Staff An intensive study of a topic in American politics. Topics chosen may vary from semester to semester. A student may take more than one course under this number.	(3)	TBA	TBA
PSC 497-1	*Selected Topics in Comparative Politics* Instructor: Staff An intensive study of a topic in comparative politics. Topics chosen may vary from semester to semester. A student may take more than one course under this number.	(3)	TBA	TBA
PSC 499-1	*Topics in Public Administration* Instructor: Staff An intensive study of a topic in public administration. Topics chosen may vary from semester to semester. A student may take more than one course under this number.	(3)	TBA	TBA
PSYCHOLOGY				
PSY 101-1	*General Psychology* Instructor: Grimsley Survey of general psychology as a behavioral science.	(3)	8:00-9:30	DEN 109
PSY 101-L01	*Laboratory* MW Instructor: Staff	(1)	1:10-4:00	WINN 102
PSY 101-L02	*Laboratory* TuTh Instructor: Staff	(1)	1:10-4:00	WINN 102
PSY 202-1	*Educational Psychology* Instructor: Puttick PSY 201 is suggested prerequisite. The psychology of learning; problems related to concept formation and application of behavior modification techniques to the classroom.	(3)	10:00-11:30	DEN 109
PSY 220-1	*Child Psychology* Instructor: Fernald Prerequisite: PSY 201. Remedial measures suggested in dealing with early child tendencies which might lead to serious school and personality difficulties. Operant and respondent learning, imitation and language development.	(3)	8:00-9:30	DEN 217

Course No.	Title		Time	Room No.
PSY 230-1	*Adolescent Psychology* Instructor: Fernald PSY 201 is prerequisite. Developmental and psychological characteristics of adolescence. Research methods and familiarity in case study emphasized. School and personality problems studied.	(3)	10:00-11:30	WINN 101
PSY 303-1	*Social Psychology* Instructor: Long Prerequisite: PSY 201. The social behavior of man. Man's behavior in relation to other individuals, groups, and products of culture, both material and nonmaterial. Group dynamics, leadership, the nature of prejudice, the effects of mass communication, public opinion are some of the topics treated.	(3)	8:00-9:30	DEN 106
PSY 480-1	*Research Methods in Physiological Psychology* Instructor: Grimsley Prerequisites: PSY 201 and permission of the instructor. An introduction to current laboratory techniques in physiological psychology, including basis of learning and memory.	(4)	10:00-11:30	WINN 103
PSY 480-L01	*Laboratory* MW Instructor: Grimsley		1:00-3:50	WINN 103
PSY 492-1	*SEMINAR* Instructor: Long Admission by consent of department. A continuation of PSY 491.	(3)	10:00-11:30	DEN 202
RELIGION				
REL 202-1	*Origins of Christianity* Instructor: Witherspoon A study of the emergence of Christianity in its cultural context.	(3)	8:00-9:30	ROWE 134
REL 202-2	*Origins of Christianity* Instructor: Witherspoon	(3)	10:00-11:30	ROWE 134
SOCIOLOGY				
SOC 151-1	*Introduction to Sociology I* Instructor: Frye Introduction to sociology as a discipline, the sociological perspective, and the process of sociological inquiry emphasizing fundamental concepts, principles, and procedures.	(3)	8:00-9:30	BRND 108

Course No.	Title		Time	Room No.
SOC 151-2	*Introduction to Sociology I* Instructor: Forrest	(3)	12:30-2:00	BRND 105
SOC 253-1	*Evolution of Sociological Inquiry* Instructor: Goodnight Prerequisite: SOC 151-152 or the equivalent. Examination of the origins and evolution of fundamental sociological concepts, theories, and research procedures and their contributions to sociological inquiry.	(3)	10:00-11:30	MACY 204
*SOC 354-1	*Sociological Inquiry: Theories and their Construction* Instructor: Wheaton Prerequisite: SOC 253 and three semester hours of logic. Systematic analysis of competing and complementary theories in contemporary sociology and the acquisition and application of the basic skills of theory construction.	(3)	8:00-9:30	MACY 206
*SOC 361-1	*Socialization and Society* Instructor: Wilson Prerequisite: SOC 151. Analysis of the processes of socialization and social interaction and the sociocultural dimension of personality.	(3)	10:00-11:30	DEN 106
*SOC 373-1	*Juvenile Delinquency* Instructor: Wheaton Prerequisite: SOC 151. Analysis of juvenile crime in relation to family, peer group, community, and institutional structures with special attention to theories of delinquency and agencies of delinquency control and treatment.	(3)	10:00-11:30	DEN 105
*SOC 411-1	*Social Stratification: Power, Privileges, and Prestige* Instructor: Wilson Prerequisite: introductory sociology and consent of the instructor. Cross-cultural and comparative analysis of the distributive system of societies focusing upon the explanation in inequality among societies and the variations in power, privilege, and prestige.	(3)	12:30-2:00	DEN 102

* Open to Graduates and Undergraduates.

Course No.	Title		Time	Room No.
*SOC 495-1	*Directed Individual Study* Instructor: Staff Prerequisite: consent of the department. Supervised investigation of a sociological problem of special interest to the student. May be repeated for credit. **Students must obtain contract for directed individual study from sociology department prior to registration.**	(1)	TBA	
*SOC 495-2	*Directed Individual Study* Instructor: Staff	(2)	TBA	
*SOC 495-3	*Directed Individual Study* Instructor: Staff	(3)	TBA	
*SOC 495-4	*Directed Individual Study* Instructor: Staff	(4)	TBA	
*SOC 557-1	*Advanced General Sociology I: Social Structure* Instructor: Forrest Prerequisite: consent of the department. Systematic examination of theories and principles of social structure and organization with special emphasis on role and systems analysis and the segmentation and integration of society.	(3)	10:00-11:30	MACY 206
SPANISH				
SPA 102-1	*Elementary Spanish* Instrutcor: Law Continuation of SPA 101, with greater attention to reading and writing.	(4)	8:00-9:30	MACY 207
SPA 102-L01	*Laboratory* Instructor: Law		10:00-11:00	MACY 106
SPA 202-1	*Intermediate Spanish* Instructor: Law Prerequisite: SPA 201 or permission of the department. Continuation of SPA 201. Extensive practice in oral and written control of the language on basis of readings from Spanish or Spanish-American literature.	(4)	12:30-2:00	MACY 207
SPA 202-L01	*Laboratory* Instructor: Law		11:00-12:00	MACY 106

* Open to Graduates and Undergraduates.

Exam Schedule for Third Summer Session

If Class Meeting Time Is:	*The Examination Will Be:*
8:00	8:00 to 11:00, Wednesday, August 15
10:00	8:00 to 11:00, Thursday, August 16
12:30	12:30 to 3:30, Wednesday, August 15
1:30-2:00-2:30	12:30 to 3:30, Thursday, August 16
6:00	6:00 to 9:00, Wednesday, August 15
7:30	6:00-9:30, Thursday, August 16

NOTES

NOTES

SUMMER SESSION 73 UNIVERSITY OF NORTH CAROLINA

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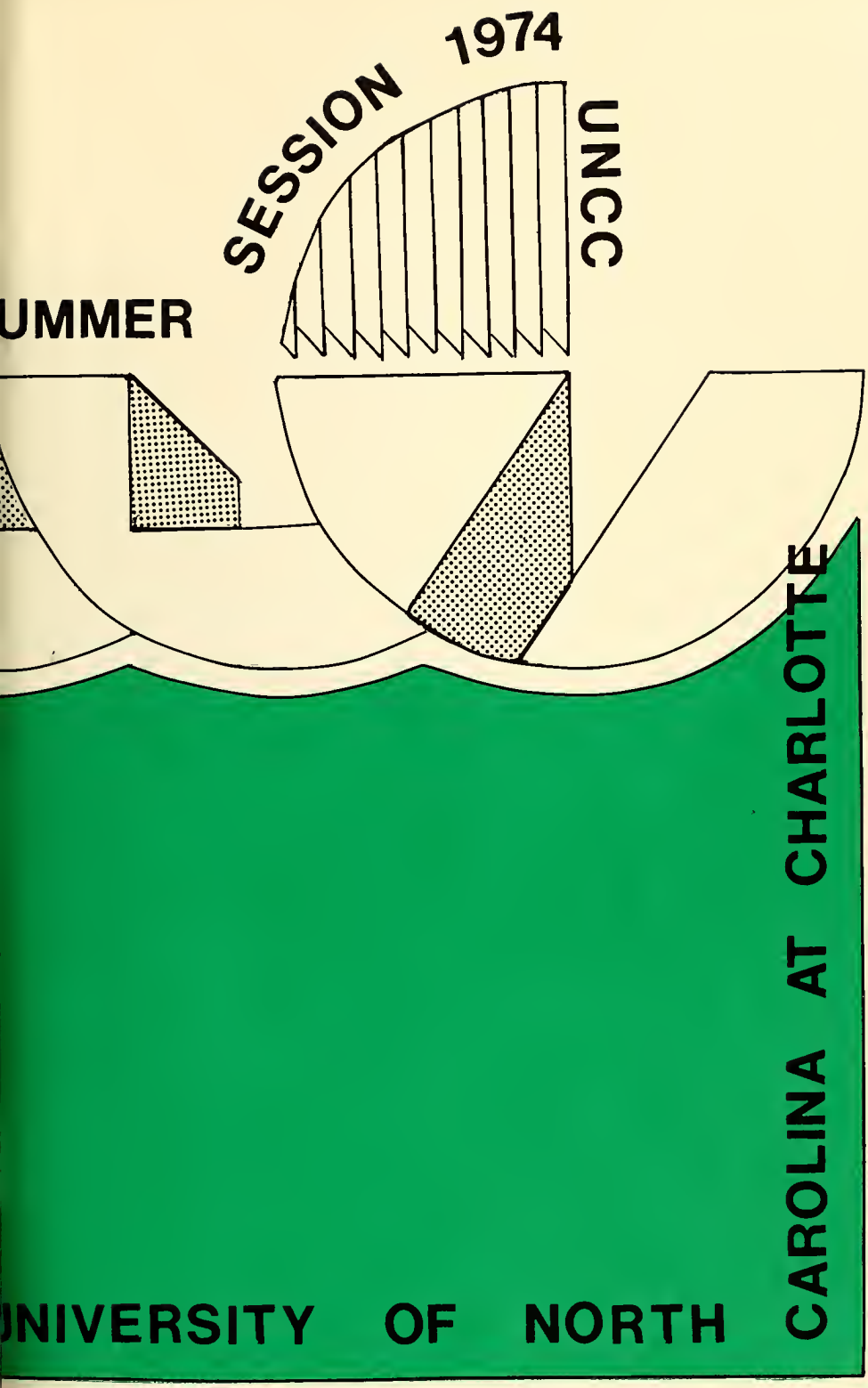
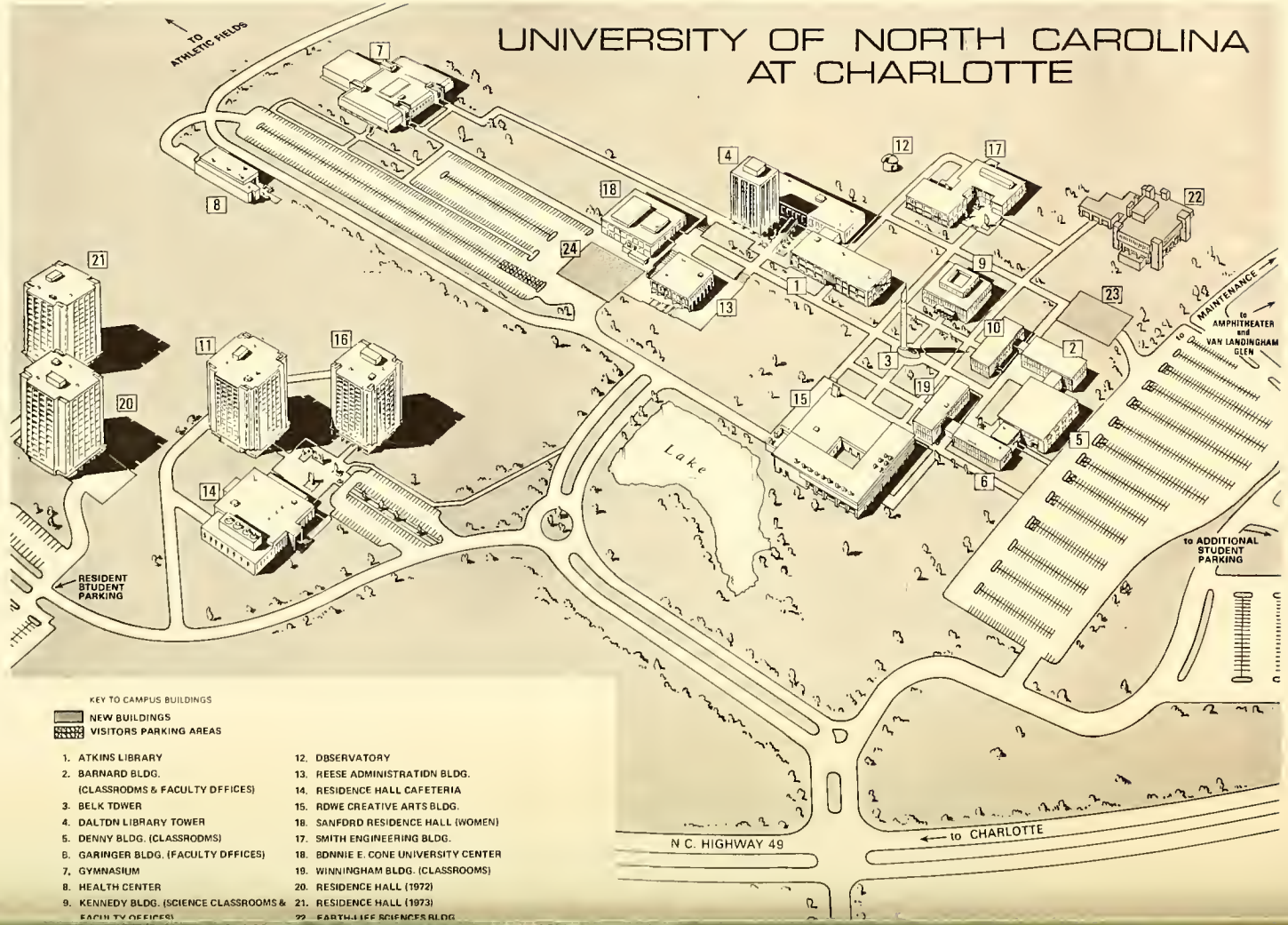

SESSION 1974
UNCC
UMMER
UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

Cover design by Richard Allan High, Student, Department of Creative Arts

The University of North Carolina at Charlotte seeks participants for all its programs from people of all races, creeds, and national origins.



THE UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

Summer Session Application for Transient, Special, and Non-Degree Students

Instructions: Mail completed application to Director of Summer Sessions, University of North Carolina at Charlotte, UNCC Station, Charlotte, North Carolina 28213.

Spacing in Squares: Please print one letter or one number to a square. Leave one blank between words. Abbreviate as necessary to stay within the allotted number of squares.

PLEASE CHECK TYPE OF ADMISSION: Undergraduate ☐ Graduate ☐

[0|1|A]
1

1. Social Security Number ☐☐☐ ☐☐ ☐☐☐☐ 4 12

Your Full Name *(Last Name First)*

2. Name ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ 13 33
3. Sex ☐ 34 M = Male F = Female
4. Marital Status ☐ 35 M = Married S = Single P = Separated W = Widowed D = Divorced
5. Citizenship ☐ 40 Y = U. S. Citizen N = Not a U. S. Citizen
6. Birthday ☐☐ ☐☐ ☐☐ 42 47 Example: July 9, 1954 [0|7] [0|9] [5|4]

[0|3]
1

7. Home Mailing Address. Do not use institutional address.

☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐
13 *Number and Street* 43

City and State *ZIP Code*

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48 68 69 73

Office Use

☐☐☐☐
44 45 47

8. Home Telephone Number ☐☐☐ ☐☐☐☐ Area Code ☐☐☐

(Do not punch)

[0|6]
1

9. Are you a legal resident of North Carolina for tuition purposes? (Consult "Residence Status" in the Summer Session Catalog for explanation of North Carolina law governing residence.)

☐ Y = Yes N = No

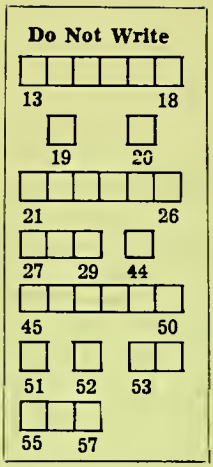
10. In what city, County, and state is your permanent residence?

______________________, ______________________, ______________________

Enter COUNTRY if not a U. S. Citizen. ______________________

11. Proposed Term of Entrance

- ☐ First Summer Session
- ☐ Short Session
- ☐ Eight-Week Summer Session
- ☐ Second Summer Session



12. Prior College Experience — (Include UNCC)

Attended *From*	*To*	*Institution*	*Hours Earned*	*Name of Degree If Grad.*	*Eligible to Return* *Yes*	*No*

13. Have you applied previously for admission to this institution?

☐ Yes ☐ No

14. Have you ever enrolled in UNCC?

☐ Yes ☐ No

CERTIFICATE

I certify that the information supplied herein is true and accurate

Signature _____

Date _____

THIS APPLICATION IS FOR THE 1974 SUMMER TERMS ONLY. APPLICATION TO REGULAR ACADEMIC YEAR MUST BE FILED IN ADDITION.

THE UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

SUMMER SESSION 1974

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GENERAL INFORMATION

The summer session is designed to allow regular students an opportunity to accelerate their college work or to make up deficiencies, to encourage new students to begin their college careers early, to furnish teachers an opportunity to renew their certificates or broaden their general knowledge and skills, and to provide opportunities for persons with specific interests to attend college for short periods of time. The University offers two six-weeks sessions: the First Summer Session running from May 27 through July 2, and the Second Summer Session running from July 8 through August 13. Most course offerings that would be needed by continuing students and visitors from other institutions are available in these two sessions. Teachers will find courses designed for their interest mainly in the six-week term beginning on July 8. It is possible for a student to take the equivalent of one semester's work in these two summer sessions.

The Eight-Week Summer Session beginning on June 17 and ending August 13 is designed to offer courses for which the subject matter requires a more extensive time period. These courses generally require more time for the students to absorb the mass of information necessary for total comprehension. Some Short Session courses also begin on June 17. These courses are special purpose courses and are designed for students who have special needs or problems with scheduled courses of a longer duration. Most Short Session courses meet on two Saturdays in order that the courses may cover sufficient material and still end in as short a period of time as is academically sound.

Grading

Undergraduate:

Reports at the end of each term will be based upon the following grading system:

A	Excellent	D	Passes
B	Good	F	Failed
C	Fair	I	Incomplete

W Official Withdrawal

Graduate:

A	Commendable	
B	Satisfactory	
C	Marginal	
U	Unsatisfactory	(Unsatisfactory work or withdrew while doing marginal or unsatisfactory work)
I	Incomplete	
W	Withdrew	(Withdrew while doing satisfactory or commendable work)

Attendance

Regular attendance in all classes is required.

Courses Offered

NOTE: Please Read with Care.

(1) The administration reserves the right to withdraw courses with insufficient enrollment. Courses may be added if there is sufficient demand.

(2) Semester hour credits for each course are given in parentheses following the name of the course. An N after the course number indicates the course is taught at night. All 500 numbered courses and courses marked with an asterisk are open to graduates and undergraduates; all 600 numbered courses are graduate only.

(3) A three semester hour course in the summer requires three times the daily pace as one during the regular semester. It is expected that each student register for not more than seven semester hours of credit per term.

(4) Courses in the Short Session are scheduled for two Saturdays (unless otherwise designated) in order to cover the most material in the shortest period of time. All other classes meet daily, Monday through Friday, except where specified to the contrary.

(5) The abbreviations used to refer to buildings are:

ATK—Atkins Library	ROWE—Rowe	MACY—Macy
DLTN—Dalton Tower	MEM—Memorial Hospital	SMTH—Smith
KNDY—Kennedy	BRND—Barnard	WINN—Winningham
PE—Physical Education	DEN—Denny	

Library

The University library is open for the use of students from 8:00 a.m. to 11:00 p.m., Monday through Friday; 9:00 a.m. to 5:00 p.m., Saturday; and 2:00 p.m. to 11:00 p.m. on Sunday.

Use of Gym in Summer

All full-time and part-time students may use the recreational spaces in the gymnasium without additional charge. The student's summer school I.D. card will gain him entry into the facility. During unorganized physical recreational periods, facilities will be used on a first come, first served basis. Schedules are posted on bulletin boards about the campus and can be obtained from the Physical Education office.

If a student wishes to have a locker, laundry service, etc., he can acquire them by paying a fee of $3 per summer session at the Business Office. All students taking a course in physical education pay a fee of $6.

Counseling Center

The University Counseling Center, 116 Reese Building, is a psychological service available at no cost to the University community. Staffed by professionally trained counselors and psychologists, the service is designed to assist individuals

in developing a more effective and satisfactory adjustment in college life. Individual counseling is conducted in a private setting and is a confidential relationship between the professional counselor and the individual.

Individuals may receive assistance in resolving personal problems, exploring educational and vocational goals, and developing more effective reading and study skills. Consultation services are available to University groups and agencies.

Professional staff from the Center organizes and conducts groups consisting of from ten to twelve members. Individuals tend to seek participation in such groups in order to find something out about themselves and how they relate to others in a group setting. Such groups usually meet for a period of one and one-half hours on a weekday basis for as long as the group membership determines.

The Counseling Center has a wide range of reference materials available for individuals who use such information in making educational and occupational decisions. Graduate and undergraduate catalogs are available as well as a wide range of materials on such things as specific occupations, reading and study skills, and information on personal growth and development.

Students, faculty or staff are welcome to drop in at any time or simply call (597-2104) if an appointment is desired.

Placement Service

The Placement Office, located in Room 01, Atkins Library, services undergraduates, graduate students, graduating students, and alumni by assisting them in developing their career objectives and in obtaining employment. In so doing, the Placement Office provides counseling and guidance in careers and in job selection and analysis; assists students in the development of interviewing techniques and maintains, for student browsing, files of information on prospective employers, school systems, graduate schools and careers.

Students who wish to earn part of their educational expenses or to gain work experience may register for part-time, full-time, or summer employment off campus. Every effort is made to assist the student who expresses a need for employment and, where possible, to place him in a position relating to his vocational goal.

Degree candidates register with the Placement Office on a voluntary basis early in their graduating year. This enables them to have interviews with on-campus recruiters from business, industry, governmental agencies, and educational systems. Some graduate schools also send representatives to the campus. The credentials filed by graduating students are retained on a permanent basis.

The Placement Office is open from 8:00 a.m. until 5:00 p.m., Monday through Friday.

Bonnie E. Cone University Center

The Cone University Center is the community focal point for all members of the University family: students, faculty, administrators, staff, alumni, and guests.

It provides for the services, conveniences, and amenities needed in the daily life of the members of the University community. Within it is housed the cafeteria, the games room, a lounge, the Little Gallery, a large meeting area, the Student Government office, the student activities office, the media offices, and the campus information center.

Summer session hours:

University Center Cafeteria	7:30 a.m. - 7:00 p.m. Closed on Saturday and Sunday
Cone University Center	7:30 a.m. - 5:30 p.m. Closed on Saturday and Sunday

Student Activities

The Summer Session Program Board is coordinated through the Cone University Center and is responsible for the programming of films, lectures, concerts, and recreational activities which are presented in the Cone University Center, the residence halls, and the Rathskeller. Eight films and three dances as well as several other miscellaneous programs are being planned for the summer months. Four special Rathskeller programs such as coffeehouse entertainment are also being planned. An activities brochure and calendar should be available after mid-March.

The Rathskeller

The Rathskeller is located in the basement of the Dorm Cafeteria. It houses a small snack bar where in the evenings one can enjoy films, concerts, and lectures presented in an informal atmosphere.

Summer session hours:

Rathskeller	5:00 p.m - 1:00 a.m. M-F 12:00 noon - 1:00 a.m. Sat. 1:00 p.m. - 1:00 a.m. Sun.

The Student Health Center

The Student Health Center is open twenty-four hours a day, seven days a week. The physician is in from 9:00 a.m. until 12:00 noon and 2:00 p.m. until 4:30 p.m., Monday through Friday. After hours, the physician is on call for emergencies at all times.

A student coming to the Health Center must present his I.D. card to the receptionist. Only students currently enrolled at UNCC are eligible for care.

Residence Halls

See section titled EXPENSES on page 9.

University Bookstore

The University Bookstore, located in the Atkins Library Annex, is open from 8:00 a.m. through 5:00 p.m., Monday through Thursday, and from 8:00 a.m. until 4:00 p.m. on Friday during the summer session.

Department of Safety and Security

The Department of Safety and Security, located in the basement of the Reese Administration Building, is designed to serve the students, faculty, and staff of the University and to protect their persons and property. Campus Police Officers are commissioned by the Attorney General of North Carolina and have full police powers on campus. Police service to the University community is provided twenty-four hours a day, seven days a week.

The Department also provides a number of other services to the members of the University community such as assistance for minor car troubles and transportation to the Health Center. Guards are assigned to the dormitories for the protection and service of the resident students. In addition to periodic checks of the dorms during the evening and night, the dorm guards have duplicate keys to assist students locked out of their rooms and maintain a petty cash box for change purposes.

Generally, all buildings and all rooms containing valuable property will be locked when not occupied. Entrance to locked rooms during non-class hours may be gained only with the written permission of a faculty member. Campus Security should be contacted to gain entrance into a locked room.

In addition to normal police duties, Security Officers are on campus to offer assistance whenever possible. Ninety percent of the Campus Security Officers are students, either at UNCC or other institutions, and are sympathetic with the problems of students. Some services provided by Security are operating a lost and found, assisting with car trouble (dead batteries, out of gas, etc.), assisting owner in gaining entry into locked vehicles, and delivering emergency messages.

All cars parked on campus must be registered and display a UNCC decal. Meters are available for visitors. Copies of regulations with campus maps are available upon purchasing a decal or a request at the Security Office. Parking regulations are in effect twenty-four hours a day. Temporary permits are available from Security for guests, or for a student's vehicle that is only temporarily on campus, or one used while a registered vehicle is being repaired, etc.

Do not hesitate to contact the Campus Security Office in the event of a problem.

EMERGENCY NUMBERS:

CAMPUS POLICE	597-2200
HEALTH SERVICE	597-2265 (twenty-four hours a day)
OPERATOR	597-2000 (On campus dial "0")
MECKLENBURG CO. POLICE	9-374-2391

ADMISSIONS

Undergraduate

Summer Transient:

The University invites students from other college campuses to take advantage of the summer programs. Transient students are limited in course selection only by the approvals from the respective institutions. The University assumes no responsibility in determining a transient student's course selection.

Enrollment in the summer session in no way obligates the University to continue one's enrollment at the University of North Carolina at Charlotte. Those who seek to transfer must complete the application for undergraduate admission and meet the requirements therein.

Summer applicants receive from the Office of Admissions a letter of acceptance.

Applicants for transient admission must complete the application included in the summer bulletin and submit it with the permission of the proper college official to the Director of Summer Sessions.

Transient students are admitted to the summer session and to the regular academic year. Admission is granted only for one term. Continued enrollment requires an additional application. Credits earned as a transient student may not count toward a degree from the University of North Carolina at Charlotte until regular entrance requirements are met. When a student is admitted, all work taken as a transient will and must apply to the degree.

Freshman Admission:

Applicants for freshman admission must present the following:

(1) Obtain an application from the Office of Admissions and return the completed form to that office.

(2) Include an application fee of $10. *The fee is not refundable.*

(3) Give the Secondary School Record and Recommendation Form to the proper high school officials. Transcripts are acceptable after completion of the junior year. In order to be eligible for admission, you must have completed sixteen acceptable units, thirteen of which must have been in academic areas. In addition, you must have completed courses as required by the degree program for which you apply.

(4) Present satisfactory scores on the Scholastic Aptitude Test of the College Entrance Examination Board. The Admissions Committee will consider SAT scores from any of the national testings. You are responsible for having the official examination scores sent from the Education Testing Service to the Office of Admissions. Hand-written or typed scores cannot be used for official purposes.

(5) Present satisfactory evidence of good character. You are responsible for

requesting the principal or guidance counselor of the secondary school to furnish the Office of Admissions with a recommendation.

(6) Upon conditional admission, complete and return the Medical Admissions Requirement Form to the University Health Center.

(7) Request a supplementary transcript to be sent to the Office of Admissions upon graduation from high school.

Transfer Admission:

Applicants for transfer admission must present the following:

(1) Obtain an application from the Office of Admissions and return the completed form to that office.

(2) Include an application fee of $10. *The fee is not refundable.*

(3) Request official transcripts from all colleges attended be mailed directly to the Office of Admissions.

(4) Give Confidential Statement(s) to proper college official(s). The recommendation is required from each college attended.

(5) Request an official transcript from the high school from which you graduated.

(6) If you are presenting fewer than twenty-four transferable hours, you must meet all freshman entrance requirements as well as those listed for transfer students.

(7) You must present a minimum of an overall C average (2.0 based on the 4.0 scale, according to the UNCC method of computation) on all work attempted at all institutions previously attended.

(8) Junior and senior transfer students must declare an academic major.

(9) Upon conditional admission, complete and return the Medical Admissions Requirement Form to the University Health Center.

Transfer students entering the University after attending a junior or community college will receive no more than sixty-four semester hours of academic credit (sixty-six including two semester hours of required physical education) toward a Bachelor of Arts degree and no more than sixty-eight semester hours of academic credit (seventy including two in required physical education) toward the Bachelor of Science and Bachelor of Science in Engineering degrees.

EXPENSES

The rates for each of the 1973 summer terms are based on the number of semester hours taken by each student and include fees. A student will be assessed for hours taken in each individual session and may not combine hours in two or more sessions for a single unit cost.

For a student taking directed projects in the Creative Arts program, an additional fee of $12.50 will be charged for one to three hours attempted or $25 for four to six hours attempted. For a student enrolled in the BCA program whose total

work load will be in Creative Arts a fee of $22.50 will be charged. These arrangements for payment of BCA fees are only for summer because of the shortness of the summer term.

If a student wishes to have a locker, laundry service, etc., in the Gym, he can acquire them by paying a fee of $3 per session. The fee for those taking a physical education course is $6.

A parking fee of $6 is charged for the summer session. *This fee is applicable for a term if one elects to attend only one term.*

The University reserves the right to make, with the approval of the proper authorities, changes in tuition and fees at any time.

Tuition and General Fees

North Carolina Resident Students:

4 semester hours or less	$ 50.00
5 semester hours or more	$ 75.00

Out-of-State Resident Students:

4 semester hours or less	$175.00
5 semester hours or more	$275.00

Withdrawal and Refund of Fees

A student who officially withdraws from the University on or before the third day of classes in the First Summer Session and in the Final Summer Session and in the Short Summer Term, and by the fourth day after classes begin in the Eight-Week Summer Session will receive a refund of the full amount paid less a registration fee of $10. After the period specified, no refund will be made.

In order to withdraw from summer school, a student should complete a withdrawal form in the Registrar's Office. Students regularly enrolled at UNCC should initiate the withdrawal in the department of their major.

Residence Halls

UNCC offers an exciting residence hall program through its commitment to student development. The underlying objective of the program is the development of a residential atmosphere conducive to the students' interpersonal growth and academic enrichment. Professionally trained Residence Life staff members live in each hall and work with students in the development of a sense of community through programming, advising, and acquainting students with the various resources of the University. In addition, student resident advisors are employed and trained as peer counselors, and serve as close resources for students on each floor.

Residence hall living is a learning laboratory in many respects. Our student-regulated policies are designed to assure the maintenance of this learning environment and develop individual responsibility, allowing for students to make significant choices regarding their life-styles.

The structural make-up of the halls provides an atmosphere complementary to both living and learning. The buildings, while housing a large number of students, are designed to provide for the intimacy of small groups as well as for larger social groupings, through which a meaningful living-learning program can be developed. This is accomplished through the arrangement of bedrooms on a suite basis (six to seven double rooms) and four suites to a floor, all opening into a common lounge area consisting of study and seminar rooms, as well as a social area. Each suite has a bathroom area and bedrooms are a combination study and sleeping space for two students. Each student has his own desk, bureau, bed, and wardrobe; and all facilities are air-conditioned for year-round comfort.

The main floor of each residence hall consists of a reception lobby, lounges, student mail boxes, a concession area, and the Resident Coordinator's office and apartment. The basement floor consists of additional lounge space, a recreational area, student government offices, and a coin-operated laundry area.

Charges for rooms are pro-rata amounts of the regular semester charges and are as follows:

Each student in a double room, each six-week term:	$ 77.00
Single occupancy of a double room, each six-week term:	$115.50

Financial Aid

Regularly enrolled UNCC students may apply for financial aid for the summer sessions. All financial aid—scholarships, grants-in-aid, loans, and work study opportunities—is awarded on the basis of financial need. Summer visitors from other campuses are not eligible for financial assistance.

Information and applications may be secured from:

The Office of Financial Aid
Room 014 Atkins Building
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

GRADUATE STUDIES

Master's Degree Programs

The University of North Carolina at Charlotte currently offers six graduate degree programs: of these, two, the Master of Arts in Education and the Master of Education, are directed primarily to in-service public school teachers in the Metrolina area. A third, the Master of Management, is designed to meet the needs of persons currently employed by business, financial or manufacturing institutions within commuting distance of our campus. The Master of Arts in Geography seeks to prepare professionals in planning, locational analysis, teaching and similar areas of interest. The Master of Science in Biology and Master of Science in Chemistry are both awarded on the basis of research programs emphasizing breadth of training in their respective fields.

Admissions

For admission to graduate study at the University of North Carolina at Charlotte, application must be made on a form supplied by the Director of Graduate Studies and accompanied by the specified application fee, scores on the Aptitude Portion of the Graduate Record Examination or the Miller Analogies Test (for all programs except the Master of Management); three recommendations, an essay describing previous experience and objective in undertaking graduate study, and two official transcripts of all academic work attempted beyond the high school. Scores on the Admission Test for Graduate Study in Business are required with the application for the Master of Management program. Applicants for the Master of Science programs may be admitted on the basis of the Aptitude Portion of the GRE or Miller Analogies Test, but will be required to take the Advanced Graduate Record Examination in field during their first semester in residence. In general, an applicant is expected to have an overall quality point average of 2.5 (on a 4.0 scale) on all work attempted beyond the high school, with an average of 3.0 or better on the major or basic courses prerequisite to the area of proposed graduate study. Applicants for admission to programs leading to the MAED or MED will normally possess a valid North Carolina Class "A" teacher's certificate or be approved in advance.

The minimum number of semester hours required varies from thirty to thirty-six, depending on the degree sought. Additional course work may be required in any program to remedy deficiencies in preparation or to meet specific professional objectives. At least half of the work offered for the degree must be selected from courses open only to graduate students; the other half may be taken from courses open to advanced undergraduates or graduates. Courses open to graduate students only are listed with the numbers 600-699. Courses numbered 500-599 are open to advanced undergraduates and graduates, as are those whose numbers are preceded by an asterisk.

For detailed information concerning the admissions and degree requirements specific to each program consult the 1974-75 *Graduate Catalog,* or contact the Director of Graduate Studies.

EXTENSION AND CONTINUING EDUCATION

The Office of Extension and Continuing Education is designed to give leadership in identifying and meeting adult continuing education needs at the post-secondary level. This office then coordinates the resources and facilities of the University in order to provide the desired educational services.

The primary vehicles of continuing education are in the form of institutes, short courses, workshops, and seminars offered in the early morning and evening hours, on weekends and during the summer, both on and off campus. Such programs are available for non-credit, certificate renewal credit, or regular graduate and undergraduate credit.

Every effort is made to offer a wide variety of continuing education programs or any course in the University curriculum at any suitable place and time for a sufficient number of interested individuals. Requests for information concerning continuing education programs should be directed to:

The Office of Extension and Continuing Education
Institute for Urban Studies and Community Service
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

The offerings in continuing education presently scheduled for the 1974 Summer Session are listed within the section entitled 1974 SUMMER SESSION OFFERINGS.

SPECIAL WORKSHOPS, INSTITUTES, AND SEMINARS

Urban Field Research Workshop:

GGY 602-01 *Advanced Urban Geography* (3)
GGY 450-03 *Special Problems in Geography* (3)

A group of no more than 15 students will be led on an intensive three-week comparative study of the Charlotte and Atlanta urban regions. Involved will be some classroom work but the emphasis will be on field study in both Charlotte and Atlanta, with the week of May 19-25 being spent in the latter city. Students will earn three semester hours credit for the course. Graduate students will register for GGY 602 (Advanced Urban Geography), and undergraduates will register for GGY 450 (Special Problems in Geography). Credit will be earned in the first session of summer. The Course will begin on May 9 and end on May 27. Tuition for three semester hours for in-state students is $50; see page 9 for other tuition costs. In addition, students will share transportation costs, lodging and food costs while in Atlanta. Low cost group arrangements will be obtained if possible but the Atlanta phase is expected to cost each student about $75. Registration will be held in Smith 217 at 9:00 a.m. on Thursday, May 9, 1974. The Course will be taught by Dr. John Catau and Dr. Gerald Ingalls, both Assistant Professors of Geography. Junior standing and consent of the instructors are prerequisites. Preference will be given to students with backgrounds in some area of urban studies. Contact either instructor *prior to May 9* at (704) 597-2293 or at.

Department of Geography and Earth Sciences
The University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

Environmental Studies In-Service Institute:

GGY 605-01 *Environmental Studies (3)*
ES 403-01 *Topics in Environmental Studies (3)*

A National Science Foundation In-Service Institute in Environmental Science for fifty teachers of science is tentatively scheduled for July 17 - August 14. Dr. James W. Clay of the Department of Geography and Earth Sciences will serve as director. Six hours of graduate credit will be granted to those participants who successfully complete the program. Inquiries should be directed to:

Dr. James W. Clay
Department of Geography and Earth Sciences
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213
Phone: (704) 597-2293

The Robert A. Taft Institute of Government Seminar:

PSC 450-01 *The Taft Institute (3)*

The Robert A. Taft Institute of Government and the Political Science Department at the University of North Carolina at Charlotte are co-sponsoring a graduate seminar for thirty-five teachers who have the responsibility for conducting social studies, civics, or government classes. The Institute will be held from June 16 - June 28. Seminar leaders will include congressmen, state legislators, city and county officials, political party officials, members of the governmental bureaucracies, interest group spokesmen, newspaper and television officials, and university professors. The purpose of the seminar will be to explore current changes taking place in American politics. Specific topics examined will include changes in the American two-party system, the increasing independence of the American voter, the impact of ideology on American politics, political polling and campaigning, mass media and public opinion, and political and governmental reform. Teachers selected to participate will receive a grant to cover the cost of tuition and room and board expenses on the campus for a two-

Week period. Three hours of graduate credit (Pass/No Credit) will be granted to those participants who successfully complete the program. Inquiries should be directed to:

Dr. Schley R. Lyons
Department of Political Science
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

The Service-Learning Internship Program in Community Education and Service:

SBS 397-01 *Internship in Community Education and Service (3)*
SBS 398-01 *Seminar in Community Education and Service (3)*

(Please consult the UNCC Undergraduate Catalog for the prerequisites, corequisites, and descriptions of these two courses) The Service-Learning Internship Program in Community Education and Service is designed as an area-wide academic program with credit in the College of Social and Behavioral Sciences. Participants will be selected into the program. The program is serviced through the Institute for Urban Studies and Community Service. The following are the overall objectives of the Internship Program: (1) to identify relationships between the student's academic program and the problems and prospects of modern urban communities; (2) to enable students to become involved in solving problems of the urban community; (3) to provide manpower for governmental and service agencies in local metropolitan communities; (4) to encourage youth to consider careers and/or citizen leadership in urban administration and service; and (5) to establish a closer relationship between institutions of higher education and the Charlotte area communities by making the resources of the college and universities more accessible to the community and by providing a basis for keeping curriculum teaching, and research relevant to the needs of the community and society. Interns will receive six semester hours of academic credit, with grading on a Pass/No Credit basis, for their completion of the program by enrolling in SBS 397-01 and SBS 398-01. The student intern's major department has the option of recognizing this credit as fulfilling departmental requirements and granting permission to repeat for credit. Student interns not regularly enrolled at the University of North Carolina at Charlotte are responsible for arranging for transfer of credit with their home institution. Student interns not regularly enrolled at the University of North Carolina at Charlotte should request in writing to be evaluated by letter grade upon acceptance into the program if a letter grade is required by their home institution. The Pass/No Credit evaluation does not apply against the four courses allowed on a Pass/No Credit option for UNCC students. Inquiries should be directed to:

Mr. Larry G. Owen
Associate Director
Institute for Urban Studies and Community Service
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

The Venture Program

SBS 399-01 *Venture (3)*

An Outward Bound-type of experience which utilizes a wilderness setting and small-group dynamics in order to increase the student's understanding of self-interpersonal relationships, and the environment. The course is action-oriented with one experience building upon another. The emphasis is on an interdisciplinary approach. The program is an experiential learning process which attempts to meet several fundamental needs complementary to the student's education. The student's major department has the option of recognizing this credit as fulfilling department requirements. Evaluation will be on a Pass/No Credit basis which does not apply against the four courses allowed on a Pass/No Credit option for UNCC students. The 1974 SBS Venture course will be open to undergraduate stu-.

dents who are at least rising sophomores. Further information can be obtained by writing to the following:

The Office of the Dean
College of Social and Behavioral Sciences
University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

Applicants should apply to the following:

The Associate Director for Internship Coordination
Institute for Urban Studies and Community Service
The University of North Carolina at Charlotte
UNCC Station
Charlotte, North Carolina 28213

1974 SUMMER SESSION OFFERINGS

The following section is a complete listing of all the courses presently scheduled to be taught in the summer of 1974. The session(s) in which the course is being taught is indicated by the following abbreviations:

I — First Summer Session (May 27 - July 2)
II — Second Summer Session (July 8 - August 13)
S — Short Session (June 17 - July 2)
E — Eight-Week Summer Session (June 17 - August 13)

The section entitled CLASS SCHEDULE BY SESSION will give such information as class time and instructor.

DEPARTMENT OF ACCOUNTING

Sessions in which offered

ACC 201 *Principles of Accounting* (3) I

A study of fundamental accounting principles, with emphasis on managerial uses of accounting data and analysis of financial statements. Lecture and laboratory. The laboratory period is optional unless scheduled for an examination.

ACC 202 *Principles of Accounting* (3) II

Prerequisite: Accounting 201. A study of basic accounting theory, corporate financing and reporting; financial planning; and an introduction to cost accounting. Lecture and Laboratory. The laboratory period is optional unless scheduled for an examination.

ACC 371 *Cost Accounting* (3) I

Prerequisite: Accounting 202. A study of cost determination and control. Emphasis will be placed on managerial uses of cost accounting. Lecture and Laboratory. The Laboratory period is optional unless scheduled for an examination.

ACC 374 *Intermediate Accounting I* (3) I

Prerequisite: Accounting 202. A study of accounting theory and concepts and their application to financial accounting. Lecture and Laboratory. The laboratory period is optional unless scheduled for an examination.

ACC 375 *Intermediate Accounting II* (3) II

Prerequisite: Accounting 374. A continuation of ACC 374 with an emphasis on accounting problems peculiar to corporate and partnership organizations and governmental units. Lecture and Laboratory. The laboratory period is optional unless scheduled for an examination.

COLLEGE OF ARCHITECTURE

ARC 101 *Studio/Seminar* (7) I

Prerequisite: Major in College of Architecture or consent of Dean. Fundamental concepts of objective problem solving as related to the general nature of geophysical, societal, and technological determinants of problems in the physical environment. A sequence of related projects in which the student develops an understanding of the principles of problem solving in architecture.

ARC 102 *Studio/Seminar* (7) II

Prerequisite: Major in College of Architecture, ARC 101. Non-major, consent of Dean. Development of skill in the synthesis of geophysical determinants inherent in architectural problems in the physical environment. A sequence of related projects in which the student develops an understanding of the relationships between natural phenomena and architecture.

ARC 201 *Studio/Seminar* (7) I

Prerequisite: Major in College of Architecture, ARC 102 and ARC 104. Non-major, consent of Dean. Development of the ability to analyze geophysical determinants of architectural problems in the physical environment. A sequence of related projects in which the student develops an ability to analyze relationships between natural phenomena and architecture.

ARC 202 *Studio/Seminar* (7) II

Prerequisite: Major in College of Architecture, ARC 201. Non-majors, consent of Dean. Development of knowledge and skill in the analysis and synthesis of technological determinants of architectural problems in the physical environment. A sequence of related projects in

which the student develops the ability to analyze and use his analyses in understanding the relationships between technological processes, methods, and tools and architecture.

ARC 302 *Studio/Seminar* (7) II

Prerequisite: Major in College of Architecture, ARC 301 and ARC 303. Non-majors, consent of Dean. Use of analysis and synthesis for physical environmental problem solving in rural, urbanizing and urbanized environments.

DEPARTMENT OF BIOLOGY

BIO 101 *Principles of Biology* (4) I

No credit toward a biology major. A course designed to acquaint the student with the fundamental principles of life. Lecture and Laboratory.

BIO 203 *Bacteriology* (3) II

Prerequisite: One semester of biology and one semester of chemistry. No credit toward a biology major. Basic physiology of bacteria and viruses, with emphasis on the pathogens and the epidemiology of microbial diseases.

BIO 203A *Bacteriology Laboratory* (1) II

Prerequisite or corequisite: BIO 203.

BIO 205 *Human Anatomy and Physiology* (3) I

Prerequisite: One semester of biology. No credit toward a biology major. Basic fundamentals of the human body as an integrated unit.

BIO 205A *Human Anatomy and Physiology Laboratory* (1) I

Prerequisite or corequisite: BIO 205.

BIO 221 *Animal Biology* (4) II

Prerequisites: Open to majors and non-majors; one course in biology prerequisite for non-majors. The morphology, function development, phylogeny and ecology of the principle invertebrate and vertebrate types. Lecture and Laboratory.

*BIO 331 *Genetics* (3) II

Prerequisite: One semester of biology. Basic concepts of heredity; principles of classical and molecular genetics.

BIO 335 *Human Genetics* (3) II

Prerequisite: One semester of biology. The inheritance of physical and mental characteristics in man. Effects of mutations, selection, migration and environment are considered.

*BIO 361 *Ecology* (4) I

Prerequisite: BIO 211, 221 and one course in chemistry. Inter-relationships of organisms and their environment. Lecture and Laboratory.

*BIO 395A *Special Topics in Biology* (4) II

Topic: Herpetology
Prerequisite: Bio 221. The biology of amphibians and reptile, systematics, life history, anatomy, behavior, physiology and ecology; emphasis on local species. Lecture and Laboratory.

BIO 497 *Investigations in Biology* (1-4) I, II

May be repeated for credit. Prerequisite: consent of the department. A course designed to

allow Junior and Senior biology majors to initiate research projects in the respective fields of interest.

BIO 695 *Tutorial* (1-4) I, II

Directed study in areas of specialization in Biology and related fields.

BIO 697 *Research and Thesis* (1-8) I, II

THE BLACK STUDIES PROGRAM

BLS 101 *The Black Experience* (3) I

Prerequisite: consent of the instructor. Core course for all students with a keen interest for the personal development of Black awareness. Opportunities for exploration of self definition and development of interpersonal relationship skills which will create and facilitate effective community dialogue and action.

BLS 350 *Topics in Black Studies* (3) I

Prerequisite: consent of the instructor. This course designed to offer special topics not included in other courses and may be repeated for additional credit. Topic A: Community Problems. Topic C: Modern Social History of Afro-Americans.

DEPARTMENT OF BUSINESS ADMINISTRATION

BUS 311 *Marketing* (3) I

Prerequisite: ECO 202. Analysis of the activities which direct the flow of goods and services from producers to consumers in modern economic systems; focuses on development of the student's ability to perceive and evaluate marketing problems and policies.

BUS 316 *Financial Management* (3) I, II

Prerequisite: ACC 202. Principles and problems of business financing. Particular emphasis on financial planning and control.

BUS 380 *Business Law* (3) I, II

A study of the legal environment within which business operates, topics covered include contracts, sales, negotiable instruments, agency, partnerships, and corporations.

BUS 382 *Sales, Credit and Security Transactions* (3) I, II

The study of the Uniform Commercial Code. Subjects covered include sales of goods, commercial paper, bank deposits and collections, letters of credit, bulk transfers, documents of title, investment securities and secured transactions.

BUS 390 *Topics in Business Administration* (3) I

May be repeated for credit. Prerequisite: consent of the department. Topics from the area of Management and Administration. Topic A: Management Science. Topic B: Information Systems.

BUS 400 *Industrial Management* (3) I, II

Prerequisites: ECO 202 and MAT 120. The principles underlying the solution of problems in organization and operation of industrial enterprises. Emphasis placed on the management functions of planning, organizing, actuating and controlling business activity.

Sessions in which offered

BUS 444 *Organizational Theory* (3) I, II

Prerequisites: ECO 202 and senior standing. An application of traditional and behavioral concepts to business organization and decision making. Primarily a study of the process of decision making in the business organization including the more modern feed back systems of good behavior.

MGT 611 *Economic Analysis I* (3) E

A study of the method of economic analysis employed in the examination of the external economic environment of the organization. The economic factors determining changes in national income and levels of economic activity in the nation, region, and industry are considered and analyzed. Analytical concepts and techniques for forecasting general economic and industry activity are developed, and the relevance of such techniques for administration of organizations is examined.

DEPARTMENT OF CHEMISTRY

CHE 101 *Principles of Chemistry* (4) I

Prerequisite or corequisite: MAT 101 or MAT 103. Principles-oriented course for science majors. Fundamental postulates and laws of chemistry; the relationship of atomic structure to physical and chemical properties of the elements. Lecture and Laboratory.

CHE 102 *Principles of Chemistry* (4) II

Prerequisite: CHE 101. Continuation of CHE 101. Lecture and Laboratory.

CHE 103 *General Chemistry* (4) I

Designed primarily for non-science majors. Fundamentals of chemistry and selected topics from inorganic, organic, colloid, nuclear, and biochemistry. Lecture and Laboratory.

CHE 104 *General Chemistry* (4) II

Designed primarily for non-science majors. Prerequisite: CHE 103. Continuation of CHE 103 including qualitative analysis. Lecture and Laboratory.

CHE 231 *Organic Chemistry* (4) I

Prerequisite: CHE 102. Basic theories, principles, and techniques of organic chemistry and their applications to reactions of aliphatic and aromatic compounds and natural products. Lecture and Laboratory.

CHE 232 *Organic Chemistry* (4) II

Prerequisite: CHE 231. Continuation of CHE 231. Lecture and Laboratory.

CHE 690 *Research and Thesis* (4) I, II

Laboratory research for the thesis.

DEPARTMENT OF CREATIVE ARTS

CA 211A *Directed Projects*—Art (1) I, II

Directed projects in art.

CA 212A *Directed Projects — Art* (2) I, II

Directed projects in art.

Sessions in which offered

CA 213A *Directed Projects — Art* (3) I, II
Directed projects in art.

CA 211M *Directed Projects — Music* (1) I, II
Directed projects in music.

CA 212M *Directed Projects — Music* (2) I, II
Directed projects in music.

CA 213M *Directed Projects — Music (3)* I, II
Directed projects in music.

CA 211T *Directed Projects — Theatre* (1) I, II
Directed projects in theatre.

CA 212T *Directed Projects — Theatre (2)* I, II
Directed projects in theatre.

CA 213T *Directed Projects — Theatre* (3) I, II
Directed projects in theatre.

Directed projects are not structured on a class basis. There are no regularly scheduled applied music classes, seminars, etc. However, any student may involve himself in virtually any aspect of the arts offered by the Creative Arts Department on an individually oriented basis. Any non-major interested in pursuing activities in the arts — ceramics, composition, appreciation, history, directing, acting, etc., would enroll in 211, 212, 213, A (art,) M (music,) T (Theatre); 211 (one credit), 212 (two credits), and 213 (three credits). Directed projects are so named in order to leave the focus of study which each student desires on a flexible level.

DEPARTMENT OF ECONOMICS

ECO 201 *Principles of Economics — Macro* (3) I
Topics considered include the scope and methodology of economics as a social science, the measurement of national income, the theory of national income determination, money and banking, and monetary and fiscal policy.

ECO 202 *Principles of Economics — Micro* (3) II
Topics considered include the operation of the pricing mechanism of a market economy, the industrial organization of our contemporary capitalistic economy, problems of economic concentration and of agriculture, the theory of income distribution, international economic relationships, and comparative economic systems.

ECO 305 *Industrial Relations* (3) I, II
Prerequisite: Eco 202. Systematic analysis of the sociological, economic, and political forces affecting and affected by the work environment. Special emphasis on market structure, the small group, the legal environment, and union structure.

ECO 324 *Managerial Economics/Business Policy* (3) I, II
Prerequisites: ECO 202, BUS 202, MAT 122 and CSC 100. A consideration of economic problems of particular importance to business firms, with a view of using tools of economic analysis in managerial decision making.

Sessions in which offered

ECO 370 *Monetary and Fiscal Policy* (3) II

Prerequisite: ECO 201. An examination of the nature and content of economic behavior of the American economy. This course deals primarily with a critical examination of monetary and fiscal tools and their application with a view toward full employment, economic growth, and price stability.

ECO 480 *Industrial Organization and Public Policy* (3) II

Prerequisite: ECO 202. An examination of the characteristics of various types of industries—competitive, oligopolistic, monopolistic, and monopolistically competitive—and of the questions of public policy in dealing with problems created by industrial concentration.

DEPARTMENT OF ENGINEERING ANALYSIS AND DESIGN

EAD 211 *Linear Networks I* (3) I

Prerequisite: MAT 144. Introduction of Kirchoff's current and voltage equations using oriented linear graph techniques. Formulation of cutset and circuit matrices. Terminal equations of network elements. Formulation of the primary and secondary systems of equations by matrix methods. Network theorems and equivalence. Power and energy functions.

EAD 212 *Linear Analysis I* (3) II

Prerequisite: EAD 211. Prerequisite or corequisite: MAT 271. Formulation of equations and the investigation of the transient and steady state solution of these equations with step, pulse and sinusoidal driving functions using Laplace Transformations. The vector transform as an introduction to sinusoidal steady state. Sinusoidal steady state and frequency response of networks.

EAD 414 *Network Synthesis* (3) I

Prerequisite: EAD 312. Positive real functions, their methods of testing. Driving point synthesis of LC, RC and RL networks into Foster and Cauer networks. One terminal pair RLC network synthesis using the Brune and Bott-Duffin methods. Realization of two terminal pair networks by ladders, Cauer networks, lattices and Darlington networks. Approximation methods.

DEPARTMENT OF ENGINEERING SCIENCE, MECHANICS AND MATERIALS

ESM 241 *Engineering Mechanics I* (3) I

Prerequisite: MAT 144. Review of vector algebra; unit vectors, scalar and vector products of vectors. Newton's Laws: the equilibrium of a particle, friction, the equilibrium of systems of particles and of rigid bodies. Center of gravity, center of mass, centroids. The kinematics of a particle: rectangular Cartesian and orthogonal curvilinear coordinates. The kinematics of rigid bodies; relative motion. The dynamics of a particle: Newton's second law, work and kinetic energy, potential energy, work and conservative force fields, impulse and momentum.

ESM 242 *Engineering Mechanics II* (3) II

Prerequisite: ESM 241. Prerequisite or corequisite: MAT 271. The dynamics of systems of particles: impulse and momentum of a system of particles, moment of momentum, work and kinetic energy of a system of particles. Moments and products of inertia; principal moments of inertia and principal axes. The dynamics of rigid bodies: Euler's equations, work and energy equations of a rigid body, plane motion of a rigid body. Single degree of freedom vibrations.

ESM 311 *Thermodynamics I* (3) II

Prerequisites: ESM 241 or PHY 221 and MAT 271. First and second laws of thermodynam-

ics. Work and heat. Thermodynamic probability and entrophy. Ideal and real gases. Nonreactive mixtures of gases. Availability and irreversibility. Vapor and gas power cycles.

ESM 341 *Mechanical Behavior of Solids* (3) I

Prerequisite: ESM 241. The analysis of stresses resulting from the application of forces to deformable solid bodies and the mechanical behavior of materials resulting from these stresses. Stresses produced by axial load, torsion, bending, and combinations of these are analyzed. Elastic and viscoelastic behavior, time and temperature effects upon properties and design applications are considered.

DEPARTMENT OF ENGINEERING TECHNOLOGY

ET 370 *Basic Engineering Analysis* (3) I

Prerequisite: College algebra, trigonometry, and analytic geometry. A course designed to give students intensive practice in the methods of solving engineering problems which require a knowledge of algebra, determinants, trigonometry, and analytic geometry.

ET 371 *Engineering Analysis I* (3) I

Prerequisite: Differential and integral calculus and ET 370. Methods of solving engineering problems which involve the differentiation and integration of algebraic, trigonometric, and logarithmic functions; use of integral tables.

ET 471 *Engineering Analysis II* (3) II

Prerequisite: ET 371. A study of constant coefficient linear differential equations, including non-homogeneous equations; Laplace transforms and the use of Laplace transform tables; applications to the analysis of dynamic systems.

DEPARTMENT OF URBAN AND ENVIRONMENTAL ENGINEERING

LE 311 *Technology in Historical Perspective* (3) I, II

Prerequisite: Junior standing. Selected historical cases in science, applied science, and technology are reviewed to show the impacts that technological advances have had on man's world. Emphasis is placed on the technologies and their effect on man's physical environment rather than on the resulting change in man's viewpoint toward society, economics, or politics. This course is designed for non-engineering students.

LE 390 *Special Topics in Environmental Control* (3) I, II

Prerequisite: Junior standing. Study of a range of environmental problems of interest to the class. The tracing of problem cases to their technological origins; the identification of available, feasible, technological solutions to the specific problems treated. On site inspection of industrial sources of pollution will be made in a series of field trips. Open to non-engineering students; not open to environmental engineering majors.

DEPARTMENT OF ENGLISH

ENG 101 *English Composition* (3) I, II

Introductory readings in varieties of literature and intensive practice in critical and expository writing.

ENG 102 *English Composition* (3) I, II

Introductory readings in varieties of literature and intensive practice in critical and expository

writing. (Note: To complete the general degree requirement of six hours of English, a student combines six one-hour courses numbered 101 or 102; normally, a student takes four courses in literature and two in composition, and normally takes a total of three per semester — totaling 3 s.h. credit.)

ENG 112 *Masterpieces of World Literature II* (3) II

Readings in Medieval, Renaissance, and Modern European literature in translation.

ENG 201 *English Literature* (3) I

Prerequisites: ENG 101 and 102. Intensive study of the masterpieces of British literature in chronological sequence before 1700.

ENG 202 *English Literature* (3) II

Prerequisites: ENG 101 and 102. British literary masterpieces since 1700.

ENG 203 *Masterpieces of Modern Fiction* (3) I, II

Prerequisites: ENG 101 and 102. Readings in selected novels and short stories written since 1850.

ENG 204 *Major American Writers* (3) I

Prerequisites: ENG 101 and 102. Extensive readings in six to eight authors. Recommended for non-English majors who are working for teachers certificates.

ENG 325 *The Romantic Era, 1785 - 1832* (3) II

The development of the Romantic movement with emphasis on the works of Wordsworth, Coleridge, and other major poets.

ENG 327 *English Literature from 1870 - 1914* (3) II

British literature from Walter Pater to the 1st World War.

*ENG 331 *History of the English Language* (3) I

Origins and development of the English language and its present usage.

ENG 332 *Introduction to Modern English* (3) I, II

An introduction to the phonology and grammatical structure of present-day English, with some consideration of word formation, changes in meaning, dialectal differences, and problems of usage.

ENG 342 *American Literature since 1890* (3) I

The chief writers and movements from Howells to the present.

ENG 351 *Literary Criticism through Arnold* (3) I

The major schools and critics.

*ENG 421 *The English Novel before Scott* (3) II

Major writers and traditions, Defoe through Jane Austen.

*ENG 423 *The Modern British Novel* (3) I

Representative British novels showing the philosophies and techniques affecting British fiction, from Hardy to the present.

*ENG 450 *Modern Poetry* (3) II

Chief British and American poets of this century.

Sessions in which offered

*ENG 461 *Modern English Grammar* (3) I

Prerequisite: ENG 331 or 332. A descriptive analysis of the structure of Modern English, with emphasis upon the transformational approach.

*ENG 465 *Social Dialects* (3) I

An introduction to concepts of dialects, predominately in the United States, concentrating on social and class differentiations, and incorporating some field-work experience within an interdisciplinary approach. Morphological, phonological, and syntactic systems will be emphasized. Prerequisite: ENG 332 or 461.

ENG 612 *Shakespeare's Tragedies* (3) II

Source materials, textual problems, stage conventions of selected tragedies, chosen primarily from the period of the great tragedies, illustrating Shakespeare's dramaturgy.

ENG 641 *American Romanticism* (3) I

Major writers of the 1830's, 40's, and 50's, including Hawthorne, Melville, Whitman, Emerson, Thoreau, and the Transcendental movement.

ENG 662 *Advanced Rhetoric* (3) II

Prerequisite: ENG 461 or permission of instructor. The fundamental principles of classical rhetoric and an intense examination of the governing principles of the "new" or descriptive rhetorics.

ENG 680 *Seminar in English Literature* (3) I, II

DEPARTMENT OF FOREIGN LANGUAGES

FRE 101 *Elementary French* (4) I

Fundamentals of French grammar and phonetics, reading, writing, and conversation. Lecture and Laboratory.

FRE 102 *Elementary French* (4) II

Prerequisite: FRE 101, or permission of the department. Continuation of FRE 101. Lecture and Laboratory.

FRE 201 *Intermediate French* (4) I

Prerequisite: FRE 102, or permission of the department. Review grammar, with composition and conversation based upon readings on French culture and civilization. Lecture and Laboratory.

FRE 202 *Intermediate French* (4) II

Prerequisite: FRE 201, or permission of the department. Review grammar, composition and conversation, based upon readings in French prose. Lecture and Laboratory.

GER 101 *Elementary German* (4) I

Fundamentals of German grammar and phonetics, reading and conversation. Lecture and Laboratory.

GER 102 *Elementary German* (4) II

Prerequisite: GER 101 or permission of the department. Continuation of GER 101. Lecture and Laboratory.

Sessions in which offered

GER 201 *Intermediate German* (4) I

Prerequisite: GER 102 or permission of the department. Review grammar, composition, and conversation based upon readings on the culture and civilization of German-speaking countries. Lecture and Laboratory.

GER 202 *Intermediate German* (4) II

Prerequisite: GER 201 or permission of the department. Continuation of 201. Review grammar, composition, and conversation, based upon readings in German prose. Lecture and Laboratory. Students who wish to continue with advanced offerings in German are advised to select GER 202.

SPA 101 *Elementary Spanish* (4) I

Introduction to Spanish with emphasis on auditory comprehension, oral production and control of structure. Lecture and Laboratory.

SPA 102 *Elementary Spanish* (4) II

Continuation of SPA 101, with greater attention to reading and writing. Lecture and Laboratory.

SPA 201 *Intermediate Spanish* (4) II

Prerequisite: SPA 102 or permission of department. Reinforcement and expansion of skill mastery developed in elementary courses on basis of grammar review and conversation. Lecture and Laboratory.

SPA 450 *Selected Readings in Spanish* (3) I

Prerequisite: two 300-level courses or permission of the department. Consideration in depth of a predetermined author or literary movement. Course conducted in Spanish.

DEPARTMENT OF GEOGRAPHY AND EARTH SCIENCE

GGY 102 *World Regional Geography* (3) I

A world regional study which emphasizes the distinctly human responses of man to various geographic situations throughout the world. The nature and development of cultural regions will be studied.

*GGY 302 *Geography of Polar Regions* (3) II

A study of the Arctic and Antarctic regions with particular emphasis on the history of exploration, the physical environment and political significance.

*GGY 303 *Geography of Anglo-America* (3) II

The geographic structure of the United States and Canada with emphasis on both the physical environment and the patterns of human activities.

*GGY 316 *Geography of Tertiary Activity* (3) I

A study of spatial attributes of retail and wholesale activities, service facilities, and financial establishments. Emphasis upon location research and delineation of trade and service areas.

*GGY 319 *Geography of Industrial Activity* (3) II

The analytical study of the principles that affect the geographic distribution of manufacturing activity. Emphasis will be on theory, model building, and the practical application of theory to geographic research. Also covered will be the role of industrial activity in regional development and planning. Although not required, students should generally plan to take GGY 313 first.

Sessions in which offered

*GGY 320 *Geography of Urban Systems* (3) II

Study of the relationships between cities and the historical evolution of urban patterns.

*GGY 321 *Geographic Structure of the City* (3) II

An integrative study of the spatial structure of cities with emphasis on land use patterns and models, transportation systems, residential concentrations, commercial activities, and manufacturing zones.

*GGY 450 *Special Problems in Geography* (1-4) I, II

Permission of department must be obtained and credit hours established in advance. May be repeated for credit. Tutorial study or special research problems. See also the section entitled SPECIAL WORKSHOPS, INSTITUTES, AND SEMINARS on page 13.

GGY 602 *Advanced Urban Geography* (3)

An Urban Field Research Course. See section entitled SPECIAL WORKSHOPS, INSTITUTES, AND SEMINARS on page 13.

GGY 605 *Environment Studies*

see section entitled SPECIAL WORKSHOPS, INSTITUTES, AND SEMINARS on page 13.

ES 102 *Earth Science - Geology* (4) I

A study of the basic geological principles and processes in earth science; the earth as a planet; treatment of physical processes shaping the earth; earth materials and landforms. Lecture and Laboratory.

ES 347 *Global Climates* (3) II

The global pattern of climates and climate producing factors. Climatic effects in relation to man and man's effect upon climate.

*ES 380 *Environmental Geology* (3) I

Prerequisite: GGY 102 or permission of the department. The study of earth processes and rock properties which have direct implications for human activities.

*ES 403 *Topics in Environmental Studies*

see section entitled SPECIAL WORKSHOPS, INSTITUTES, AND SEMINARS on page 13.

ES 651 *Workshop in Geology* (4) S

An intensive workshop in the fundamentals of the geological sciences intended primarily for earth science teachers. Lectures, laboratories, and local field trips. No prerequisites.

DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

HED 409 *Health Education Laboratory* (3) I, II

Prerequisites: HED 101 and HDL 303. Health instruction, principles of health teaching for the elementary grades.

PED 120 *Beginning Tennis* (1) I

The rules, history, basic skills and basic strategy.

PED 409 *Physical Education Laboratory* (3) I, II

Prerequisite: HDL 303. Physical education instruction, principles of physical education teaching for the elementary grades.

DEPARTMENT OF HISTORY

Sessions in which offered

HIS 101 *Modern Western Civilization to 1815* (3) II

This course commences with a broad survey of Ancient and Medieval contributions to Modern Western Civilization and then treats intensively the development of Western Civilization from the Renaissance to 1815.

HIS 102 *Modern Western Civilization from 1815 to the Present* (3) II

Prerequisite: HIS 101. Continuation of HIS 101 with greater emphasis on developments outside the Atlantic community of Western Civilization.

HIS 103 *American History I* (3) I

Survey of American history from the earliest times to 1865.

HIS 104 *American History II* (3) I, II

Survey of American history from 1865 to the present.

HIS 105 *Ancient History* (3) II

From the earliest civilizations until the fourth century A.D.

HIS 109 *History of Latin America I* (3) I

A survey of the cultural, political, and economic developments of Latin America during the colonial period.

HIS 111 *African History I* (3) I

A survey of historical developments in sub-Saharan Africa, North Africa, West Africa, East Africa, and Central Africa.

HIS 302 *The High and Later Middle Ages (1056 A.D. -1349 A.D.)* (3) I

Western Europe from the struggle between the empire and the papacy to the Black Death. A study of the crusades, origin of towns, parliaments, the middle class, universities, the secularization and centralization of governments.

HIS 304 *History of Rome* (3) II

From the beginning of civilization in Italy to 284 A.D.

HIS 350 *Topics in History* (3) I, II

Treatment of a historical topic. (May be repeated for credit.) Topic D: History of Argentina. Topic M: Victorian England. Topic N: France, 987 - 1715. Topic P: World War II. Topic Q: Colonization in the Caribbean (1492-1763).

HIS 361 *Britain to 1485* (3) I

Survey of British history with emphasis on institutional, cultural, economic, and imperial developments.

HIS 374 *America in Crisis, 1824 - 1860* (3) I

A consideration of the new American nation in crisis. Attention is given to the development of nationalism under Jackson, the expansion of the new nation, the growth of sectionalism, and the events leading to secession.

HIS 393 *The Frontier in American History* (3) I

A study of the influence of the moving frontier line on the historical development of the

United States. Emphasis will be placed on the trans-Mississippi Western United States. For comparative purposes some consideration will be given to other world frontiers.

*HIS 492 *Seminar in History* (3) I, II

Prerequisite: consent of the department. An intensive examination of a subject in history to be offered as special circumstances require. (May be repeated for credit.) See each session offered for the topic.

HIS 650 *Topics in History* (3) I

Intensive treatment of a period on a broader survey of a topic, depending on student needs and staff resources. (May be repeated for credit.) Topic: India and Africa: A Cultural Approach (For intermediate and secondary school teachers. Prerequisite: Possession of North Carolina Class "A" Teacher Certificate. The course will focus on the history, geography and culture of India and Africa with attention given to the development of curricular materials that may be used in the classroom. The only registration for this course will take place on the first day of class. Do not preregister.).

HIS 694 *Readings in History* (3) II

Coverage of historical periods or topics through individually designed reading programs; scheduled conferences with a staff member. (May be repeated for credit.)

DEPARTMENT OF HUMAN DEVELOPMENT AND LEARNING

Phase I. Explorations in Human Potential

HDL 201 *Introductory Explorations in Human Potential* (3) I, II

An introductory course in the philosophical foundation of the educative process designed to explore the nature of man, and human potential in relation to one's system of beliefs, values, and relationships. Emphasis is given to the analysis and development of the student's beliefs, his personhood, and to his role in relationships. Clinical experiences are provided to introduce the student to teaching/learning relationships and to a sociological orientation of growth and the school in modern society. Open to freshmen.

HDL 570 *Selected Topics in Human Development and Learning* (3) II

Prerequisite: HDL 201 and permission of the College of Human Development and Learning. Topics and special problems chosen in relation to human learning, ideas, practices, significant movements, or detailed study of models for human learning. Seminars, independent study, and clinical experiences. May be repeated for credit with approval. Topic C: Developmental Disabilities.

HDL 600 *Explorations in Human Potential* (3) I, II, S

A course designed to explore in depth the identification, development and release of human potential. Emphasis will be given to techniques, relationships, and programs which develop potential. The Course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. The Person and School in Urban Society; B. The Facilitation of Meaning; C. Children and Youth.

HDL 606 *Adjustment Problems, Children and Youth* (3) II

A study of adjustment problems from childhood and adolescence in relation to theoretical postulates and to school problems. Special emphasis is given to problems of behavior and attitudes toward learning and relationships.

Phase II. Meaning and Growth in Teaching/Learning Relationships

Sessions in which offered

HDL 301 *Reading and the Language Arts* (3) — I, II

Emphasis on oral and written communication, with special attention to the teaching of reading; appraisal of current programs and methods. This course required for all students planning to teach on the elementary level. Prerequisites: HDL 201 and PSY 202.

HDL 303 *Elementary Education I: Organization and Curriculum* (3) — I, II

A course designed to develop an understanding of the curriculum of the elementary school. Emphasis is placed on the role of the teacher in the design, organization and administration of the elementary school. Major consideration is given to approaches to instructional organization such as multi-age grouping and team teaching as they relate to the curriculum. Prerequisites: HDL 201 and PSY 202.

HDL 570 *Selected Topics in Human Development and Learning* (3) — II

Prerequisite: HDL 201 and permission of the College of Human Development and Learning. Topics and special problems chosen in relation to human learning, ideas, practices, significant movements, or detailed study of models for human learning. Seminars, independent study, and clinical experiences. May be repeated for credit with approval. Topic G: Living/Learning Environments.

HDL 620 *Curriculum Theory* (3) — II

A study of the determinants of curriculum as they relate to facilitation of the transition from theory to practice. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. Meaning and Growth; B. Creativity and Experiences; C. Strategies and Designs. Emphasis is placed on research and experimentation in the development of theory, processes, materials, and relationships in curriculum design.

HDL 625 *Concepts of Teaching and Learning* (3) — II, S

A course designed to provide the student with an opportunity to critically examine current trends and practices in particular areas of the curriculum such as: A. Integrated Studies; B. Language Development and Reading.

HDL 630 *Examination and Appraisal of Reading Instruction* (3) — II

Aspects of the reading program ranging from readiness to diagnostic and remedial techniques. Current practices and materials used in reading programs are investigated and evaluated. Emphasis will be placed on a flexibility of programs to meet the learning needs of individual students.

HDL 635 *Learning Media, Resources, and Technology* (3) — II

The selection, use, and evaluation of technological innovations in instructional media will be studied. Laboratory experiences will emphasize media application in the enrichment of the instructional program.

Phase III. The Helping Relationship

HDL 660 *Behavioral Analysis of Administration* (3) — I, II

An extensive study of the behavioral components of administrative theory, organization, decision making, and planning for educational development. An appraisal of significant functions, techniques, practices and problems as they relate to the public school systems, to other social institutions, with the system of social and governmental entities.

Sessions in which offered

HDL 663 *Developmental Approaches to the Theory and Practice of Guidance* (3) — II

A study of guidance and counseling as a developmental concept with emphasis upon the philosophical, social, and psychological bases for the helping relationship. Experiences are provided to facilitate the necessary competencies — self analysis, value judgments and the creation of relationships needed to facilitate the growth of others toward personhood.

HDL 665 *Analyzing and Developing Approaches to the Helping Relationships* (3) — I, II, S

A course designed for the study of ways, means, and concepts of improving instruction, learning, and development through the helping relationship. The course is organized to be taught by a team giving opportunities for the student to study in depth areas of interest and need such as: A. Person to Person Relationships; B. Group Process and Behavioral Change; C. Counseling; D. Supervision.

Phase IV: Experience and Commitment in Human Development and Learning

HDL 570 *Research in Selected Topics in Human Development and Learning* (3) — I, II, S

Prerequisite: HDL 201 and permission of the College of Human Development and Learning. Topics and special problems chosen in relation to human learning, ideas, practices, significant movements, or detailed study of models for human learning. Seminars, independent study, and clinical experiences. May be repeated for credit with approval. Topic A: Living/Learning Styles. Topic E: Newspaper-in-the-Classroom (A short course for teachers. A thirteen day course designed for teachers and future teachers to study ways to supplement textbooks by using newspapers. The focus will be on techniques in the use of a current everyday text instead of out-of-date materials. Editors, photographers and reports from The Charlotte Observer and The Charlotte News will analyze newsprint as guest lecturers. Teachers who have successfully used newspapers will give demonstrations throughout the course. Preregistration will be by mail only. Other registration will take place only on the first day of class. Further information may be obtained through the Office of Continuing Education, University of North Carolina at Charlotte, UNCC Station, Charlotte, North Carolina 28213.). Topic M: Growth: Infants and Early Years (Designed especially for child care personnel and kindergarten teachers). Topic N: The Middle Years (Designed especially for middle school and junior high school teachers).

HDL 671 *Seminar and Internship in Human Development and Learning* (3) — I, II

Prerequisite: Permission of the College of Human Development and Learning. Supervised experiences in observation, involvement, and administrative participation in clinical settings in schools, clinics, learning centers, social agencies, and other centers devoted to human development and learning. Emphasis is given to independent experiences and to experience as a member of a learning team in relation to behavior, behavior analysis, and to the personal and professional growth of the intern in: B. Counseling.

HDL 672 *Problems in Human Development and Learning* (3-6) — II

Prerequisite: Permission of the College of Human Development and Learning. Designed to permit students to conduct action research on selected problems, guided readings, research, and individual project work under the direction of a staff member. This course may be repeated for credit with the approval of the College of Human Development and Learning.

DEPARTMENT OF MATHEMATICS

Sessions in which offered

MAT 101 *Basic Concepts of Mathematics* (3) — I, II

Algebraic properties of the real number system; sets relations, functions; graphing and solution of equations and inequalities; vectors and matrices; polynomial, exponential and logarithmic functions; introduction to computer programming. (Credit not given to students having credit for MAT 103).

MAT 103 *Concepts of Mathematics* (3) — II

A study of the real number system including the basic field operations, the order relation and absolute value; solutions of equations and inequalities; sets, functions and relations; graphing; brief treatment of trigonometry. (Credit not given for MAT 101, 103A, 103B where credit is awarded for MAT 103).

MAT 104A *Vector Geometry I* (1) — S

Algebra and geometry of vectors; parametric, implicit and explicit descriptions of lines, intersections of lines; dot product, perpendicularity; length and distance.

MAT 104B *Vector Geometry II* (2) — II

Prerequisite: MAT 104A. Vector geometry of planes; parametric, implicit and explicit description of planes, cross-product; algebra of matrices, solution of linear systems by matrices, Gauss-Jordan elimination method; matrix inversion; determinants; conics.

MAT 120 *Calculus* (3) — I, II, E

Prerequisite: MAT 101 or 103. A brief treatment of basic concepts of differential and integral calculus with applications to business and to the social and life sciences; an introduction to the elements of probability. Sample spaces, events; probability of an event, conditional probability, independent events.

MAT 122 *Elements of Statistics* (3) — I, II, E

Prerequisite: MAT 101 and 103. An introduction to the principles of statistical measures and hypothesis testing. Mean, variance, standard deviation; confidence intervals; binominal and normal distributions; contingency tables, chi-square test; nonparametric tests including the sign test and rank sum test, the t-test; linear regression, correlation and an introduction to analysis of variance and multiple regression.

MAT 130 *Elementary School Mathematics I* (3) — I

A logical treatment of the structure of the number system and the basic ideas needed for teaching elementary school mathematics with emphasis on the concepts involved rather than the algorithms. (For elementary teacher candidates only.)

MAT 143 *Differential Calculus I* (3) — I, II

Prerequisite: MAT 103 or equivalent and MAT 104A with a grade of C or better. Limits in R^n; continuity of $R^n \to R$ functions; differential calculus of $R \to R^n$ functions; extreme values; concavity; curve sketching; velocity and acceleration, related rates.

MAT 144 *Integral Calculus I* (3) — I

Prerequisite: MAT 143 with a grade of C or better. The Riemann integral of $R \to R$ functions; primitives and antiderivatives; methods of integration; special functions; the integral of $R \to R^n$ functions; arc length; volumes and surfaces of revolution; work; total force.

MAT 244. *Integral Calculus II* (3) — II

Prerequisite: MAT 104B and MAT 144 with grades of C or better. Multiple integration; iterated integrals, series, improper integrals.

Sessions in which offered

MAT 271 *Differential Equations* (3) E

Prerequisites: MAT 104 and 144 with a grade of C or better. An introduction to the study of differential equations; first order equations; general theory of ordinary linear differential equations; Laplace transform.

MAT 322 *Probability and Statistics I* (3) E

Prerequisite: MAT 244 with a grade of C or better. A first course in a two-semester sequence including continuous probability distributions, random variables, limit theorems, stochastic processes, estimation, and hypothesis testing.

MAT 350 *Topics in Mathematics* (3) I

Topic: Algebra

Prerequisite: consent of the department. This course designed to serve particular needs, not served by other departmental offerings, such as the needs of the National Science Foundation Institute for Teachers.

MAT 403 *Arithmetic in the School* (3) I

Prerequisite: MAT 101 or equivalent. A study of the number systems with emphasis placed upon the basic concepts and meanings, properties of addition, multiplication, inverses, systems of numeration, and number line appropriate for each grade. (Does not count toward a major in mathematics.)

MAT 600 *Foundations of Mathematics* (3) E

Prerequisite: Consent of the department. Sets, logic and axiomatics with examples drawn from algebra and geometry.

MAT 603 *Computer Techniques and Numerical Methods* (3) E

Prerequisite: MAT 601 or consent of the department. A study of digital computer systems, the programming of a digital computer and the use of the computer in the solution of problems by numerical methods.

MAT 606 *Topics in Algebra* (3) E

Prerequisite: MAT 601 or concent of the department. A selection of topics from the classical algebraic structures, including groups, rings, fields, and vector spaces. May be repeated for credit.

CSC 100 *Algorithmic Languages I* (3) I, II

Prerequisite: MAT 101 or 103. An introduction to digital computing techniques through the study of FORTRAN IV. Various numerical and non-numerical algorithms will be studied, flowcharted, programmed and documented. Concepts such as computer hardware, computer application areas, etc. will be introduced when appropriate. Lecture and Laboratory.

CSC 201 *Computers and Programming* (3) II

Prerequisite: CSC 100. Computer structure; symbolic coding, and assembly systems; macros; program segmentation and linkage; and an introduction to operating systems.

COLLEGE OF NURSING

NUR 102 *Ecology of Man I* (3) I

The focus of this course is directed toward understanding the relationship of the ill person to his family and community. Major health problems and facilities provided by society for meeting health needs will be included in the content.

Sessions in which offered

NUR 201 *Fundamentals of Nursing I* (4) I

Prerequisite or corequisite: NUR 102. Study of the basic concepts and principles essential for the nursing care of adults and children. Emphasis is placed on the correlation of principles of nursing with concepts of behavioral and natural sciences. Lecture and Laboratory. (The laboratory will be held at Wesley Nursing Center and Charlotte Memorial Hospital. A practical application of the basic concepts and principles essential for nursing is carried out in a hospital setting.)

NUR 202 *Fundamentals of Nursing II* (4) II

A continuation of Nur 201. Lecture and Laboratory. (The laboratory will be held at Charlotte Memorial Hospital with emphasis on pharmacology and varied specialties in Nursing.)

DEPARTMENT OF PHILOSOPHY

PHI 201 *Introduction to Philosophy* (3) I, II

An introduction to some of the basic concepts and problems of philosophy. Typical problems are freedom and determinism, mind-body interaction, the status of moral judgments, and the problem of perception. Readings from the works of representative philosophers, both classical and contemporary.

PHI 205 *Deductive Logic* (3) I, II

A first course in the general principles of deductive logic, both classical and symbolic, with emphasis on the use of formal logic in analysis of ordinary language discourse.

PHI 301 *Ethics* (3) I

A study of the development of ethical thought in ancient and modern times, with special references to present day ethical problems. Readings selected from classical and contemporary sources.

PHI 350 *Topics* (3) II

May be repeated for additional credit with the approval of the department. Prerequisite: consent of the department. Topics chosen from specific areas in philosophy such as symbolic logic, philosophy of science, freedom and determinism, philosophy in literature, detailed study of significant philosophic movements, or detailed study of the works of individual philosophers. Topic S: Existentialism.

DEPARTMENT OF PHYSICS

PHY 101 *Introductory Physics I* (4) I

Prerequisite or corequisite: MAT 101 or 103. Introduction to the fundamental principles of natural phenomena. Topics will be selected from traditional classical subjects (e.g., Newtonian mechanics, electromagnetism) and more recent developments in order to illustrate the logical structure of modern science. Lecture and Laboratory.

PHY 102 *Introductory Physics II* (4) II

Prerequisite: PHY 101. A continuation of PHY 101. Lecture and Laboratory.

PHY 103 *Astronomy* (4) II

Historical beginnings of astronomy. Motions of celestial bodies. Introduction to space science. The solar system. Optical and radio astronomy. Structure and evolution of stars. Galaxies, cosmology. Lecture and Laboratory.

Sessions in which offered

PHY 222 *Waves and Thermal Physics* (3) I

Prerequisites: PHY 221 or ESM 241; MAT 143 and 144. Fluid mechanics and elastic properties of matter; oscillations and waves in elastic media; sound; heat and an introduction to thermodynamics and the kinetic theory of gases.

PHY 231 *Electricity and Magnetism* (3) II

Prerequisites: PHY 221 or 222; MAT 244. Electric and magnetic fields in free space and in matter; electrostatic potential and capacitance; elementary circuit theory; electromagnetic induction and inductance; introduction to Maxwell's equations.

DEPARTMENT OF POLITICAL SCIENCE

PSC 201 *Introduction to American Politics* (3) I, II

Role of the President, Congress, Supreme Court and national administrative agencies in the American political system. Relationship between the American people and their political institutions with emphasis upon political culture, the electoral process, interest groups, political communication, and the international commitments of the United States.

*PSC 301 *Political Socialization* (3) II

The study of the processes by which the political culture of the society is transmitted, formally and informally, to individual members. The course examines the learning process, the agents of socialization, the content of the learning, and the consequences of political socialization for the functioning of the political system.

*PSC 303 *Public Opinion and the Mass Media* (3) II

The nature and influence of public opinion and the effects of the news media of communications on public opinion and political behavior. The course emphasizes research on the development and content of public opinion and social psychological studies on the process of opinion change.

PSC 309 *Political Parties and Interest Groups* (3) I

Analysis of the role played by political parties and interest groups in the American political system.

*PSC 313 *Judicial Behavior* (3) II

Prerequisites: SOC 201 or 151-152, or PSY 303. Survey of the empirical studies concerning the determinants of the behavior of judges.

PSC 322 *Contemporary Urban Problems and Policies* (3) I

A study of selected urban problems, including an analysis of the causes and consequences of governmental policies designed to cope with these problems. Topics of interest would include: Crime and law enforcement, poverty and welfare, urban transportation, education, pollution, housing and redevelopment, and urban revenue and expenditure patterns.

PSC 341 *Government and Politics of Western Europe* (3) II

Comparative analysis of selected Western European Governments including Great Britain, France, Germany, and Italy.

PSC 347 *Government and Politics of Latin America* (3) II

Comparative study of the political development of Latin American political systems with reference to selected aspects and problems of contemporary politics in the region.

Sessions in which offered

PSC 349 *Government and Politics of East Asia* (3) I

The structure and evolution of political institutions in selected East Asian states. Emphasis upon such topics as nationalism, political modernization, ideology, socioeconomic influences, and the role of Asian nations in world politics.

*PSC 359 *Soviet Foreign Policy* (3) I

The concepts, content, and evolution of Soviet foreign relations, with emphasis upon change and continuity in Russian and Soviet policies. Contemporary problems of Soviet diplomacy with other world powers and with the Marxist-Leninist nations of the Communist international system.

*PSC 383 *Administrative Behavior* (3) II

The role of the administrator and public bureaucracy in modern democratic society. Particular attention will be given to the interplay of forces created by executives, legislators, political parties and interest groups.

*PSC 450 *Taft Institute* (3)

see section entitled SPECIAL WORKSHOPS, INSTITUTES, AND SEMINARS on page 13.

PSC 496 *Selected Topics in American Politics* (3) I, II

An intensive study of a topic in American politics. Topics chosen may vary from semester to semester. A student may take more than one course under this number.

PSC 496A *Topics in American Politics* (3) I

Topic: The Congress

PSC 496B *Topics in American Politics* (3) I

Topic: The Presidency

PSC 497 *Selected Topics in Comparative Politics* (3) I, II

An intensive study of a topic in comparative politics. Topics chosen may vary from semester to semester. A student may take more than one course under this number.

PSC 497A *Selected Topics in Comparative Politics* (3) I

Topic: Communist Politics

PSC 497B *Selected Topics in Comparative Politics* (3) I

Topic: The Politics of China

PSC 498 *Selected Topics in International Relations* (3) I

An intensive study of a topic in international relations. Topics chosen may vary from semester to semester. A student may take more than one course under this number.

PSC 499 *Selected Topics in Public Administration* (3) II

An intensive study of a topic in public administration. Topics chosen may vary from semester to semester. A student may take more than one course under this number.

DEPARTMENT OF PSYCHOLOGY

PSY 101 *General Psychology* (3) I, II

A survey of the field including such topics as learning, emotions, motivation, personality, psychological testing, and abnormal behavior. All psychology majors and those who wish to

apply this course as partial fulfillment of the University science requirement must take PSY 101L during the same semester in which they take PSY 101.

PSY 101L *General Psychology Laboratory* (1) I, II

An introduction to laboratory equipment and procedures. (May not be taken apart from the lecture portion of PSY 101 except by psychology majors who have permission of the department.)

PSY 202 *Educational Psychology* (3) I, II

PSY 101 is suggested prerequisite. The psychology of learning; problems related to concept formation and application of behavior modification techniques to the classroom.

PSY 203 *Psychology of Adjustment* (3) I

Prerequisite: PSY 101. The study of the process of adjustment. Primary consideration given to motivat frustration and conflict, adjustment mechanisms, and psychotherapy.

PSY 210 *Developmental Psychology* (3) I

A detailed discussion of the principles of psychological change from infancy to old age, with a consideration of genetic, physiological and environmental determinants.

PSY 220 *Child Psychology* (3) I

Prerequisite: PSY 101. Psychological development in infancy and childhood, including the development of learning, thought, language, social relations, intelligence, and morality. Remedial measures suggested in dealing with early child tendencies which might otherwise lead to severe academic and social difficulties.

PSY 230 *Adolescent Psychology* (3) I

Prerequisite: PSY 101. Developmental and psychological characteristics of adolescence. Research methods and familiarity in case study emphasized. School and personality problems studies.

PSY 240 *Experimental Psychology* (4) I

Prerequisite: PSY 101 and 101 Lab and Math 122. An introduction to the experimental approach to behavior study, including experimental design and the use of statistics in scientific research. Lecture and Laboratory.

PSY 303 *Social Psychology* (3) II

Prerequisite PSY 101. The social behavior of man. Man's behavior in relation to other individuals, groups, and products of culture, both material and nonmaterial. Group dynamics, leadership, the nature of prejudice, the effects of mass communication, public opinion are some of the topics treated.

PSY 305 *Psychology of Personality* (3) I

Prerequisite: PSY 101. Current personality theories. Consideration given to psychoanalytic, physiological, trait and factor, the perceptual viewpoints in the light of contemporary research.

PSY 307 *Abnormal Psychology* (3) I

Prerequisite: PSY 101. A history of psychopathology. Case studies, differential diagnosis, psychological dynamics of abnormal behavior, including theoretical, clinical, and experimental contributions in the field.

PSY 310 *Comparative Psychology* (3) II

Prerequisite: PSY 101. An introduction to the study of animal and human behavior from a comparative point of view. Emphasis on the classification of behavior patterns as well as the origin and development of these patterns.

Sessions in which offered

PSY 461 *History and Systems of Psychology* (3) II

Prerequisite: PSY 101. Influential psychological systems and their historical antecedents. Emphasis on Gestalt. Psychoanalytic and behavior theory. Evaluation of current existential influence.

PSY 489 *Practicum in Applied Psychology* (1-4) I, II

Prerequisite: Permission of the department. A course allowing junior and senior students the opportunity to work in practical settings related to psychology under the supervision of a faculty member. (May be repeated for credit with departmental permission.)

PSY 490 *Individual Research* (1-4) I, II

Prerequisite: Permission of the department. A course allowing the Senior psychology major an opportunity to initiate, design, and conduct an original research problem in the area of interest. May be repeated for credit.

PSY 492 *Seminar in Social Psychology* (3) II

Prerequisite: Permission of the Instructor. An intensive study at the advanced level of topics of current research and theoretical interest in social psychology.

PSY 495 *Seminar in Developmental Psychology* (3) I

Prerequisite: PSY 101 and permission of the instructor. This seminar is a concentrated examination of current issues and research in the field of developmental psychology. Such topics as the concept of development in historical and current usage, learning, (especially in human infants), development of social relations, intelligence, cognitive abilities, and the acquisition of language will be treated in detail.

PSY 501 *Psychology of Exceptional Children* (3) II

Assessing the exceptional child. Emphasis on current research in several diagnostic categories.

PSY 504 *Tests and Measurements* (3) II

Prerequisite: PSY 101. A survey of psychological and educational measurements in current use. Emphasis will be placed on structure, administration, and application of group tests. Individual tests such as Stanford-Binet, WISC and WAIS will be reviewed.

PSY 505 *Advanced Personality Theory* (3) II

A critical evaluation of the major personality theories including an extensive survey of current research.

DEPARTMENT OF RELIGIOUS STUDIES

REL 201 *Hebrew Religious Thought* (3) I

An introduction to the Hebrew religious tradition from the perspective of its development in the culture of the ancient Near East and from the perspective of its subsequent impact on Western Culture. Analysis of selected Hebrew scriptures in English translation.

REL 202 *Origins of Christianity* (3) II

A study of the emergence of Christianity in its cultural context. Analysis of selected early Christian writings in English translation.

REL 203 *Eastern Religions* (3) I, II

A survey of Hinduism, Buddhism, selected East Asian religions, and Islam. Readings from selected translations of the sacred writings of the East.

Sessions in which offered

SBS 397 *Internship in Community Education and Service* (Service Learning Internship Program) (3)

see section entitled SPECIAL WORKSHOPS, INSTITUTES, AND SEMINARS on page 13.

SBS 398 *Seminar in Community Education and Service* (Service Learning Internship Program) (3)

see section entitled SPECIAL WORKSHOPS, INSTITUTES, AND SEMINARS on page 13.

SBS 399 *Venture* (3)

see section entitled SPECIAL WORKSHOPS, INSTITUTES, AND SEMINARS on page 13.

DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

SOC 151 *Introduction to Sociology I* (3) I, II

Introduction to sociology as a discipline, the sociological perspective, and the process of sociological inquiry emphasizing fundamental concepts, principles, and procedures.

SOC 203 *Cultural Anthropology* (3) I

Introduction to the origins and development of cultures, their structure and functioning in primitive and the simpler modern societies, methods of cultural analysis, and theories of culture.

SOC 210B *Topics in Regional Ethnography* (3) II

Topic: American Indians
Prerequisite: introductory anthropology. May be repeated for credit as the topics vary.

*SOC 354 *Sociological Inquiry: Theories and their Construction* (3) I

Prerequisite: SOC 253 and three semester hours of logic. Systematic analysis of competing and conplementary theories in contemporary sociology and the acquisition and application of the basic skills of theory construction.

*SOC 355 *Sociological Inquiry: Methods of Verification* (4) I

Prerequisite: SOC 354 and three semester hours of statistics or consent of the instructor. Examination and application of research principles and techniques for the verification of sociological propositions, including the formulation of the problem, the design of the research, and the collection, analysis and interpretation of the data. Lecture-discussion and laboratory.

*SOC 361 *Socialization and Society* (3) I

Prerequisite: SOC 151. Analysis of the process of socialization and social interaction and the sociocultural dimension of personality.

*SOC 372 *Sociology of Deviant Behavior* (3) I

Prerequisite: SOC 151. Examination of the forms, causes, consequences, and control of deviant behavior.

SOC 373 *Juvenile Delinquency* (3) II

Prerequisite: SOC 151. Analysis of juvenile crime in relation to family, peer group, community, and institutional structures with special attention to theories of delinquency and agencies of delinquency control and treatment.

*SOC 411 *Social Stratification: Power, Privileges, and Prestige* (3) I

Prerequisite: introductory sociology and consent of the instructor. Cross-cultural and compara-

tive analysis of the distributive system of societies focusing upon the explanation of inequality among societies and the variations in power, privilege, and prestige.

*SOC 432 *Seminar in Contemporary American Family Systems* (3) S

Prerequisites: Introductory sociology and consent of instructor. Analysis of the development of modern American family systems, their relationship to American society, and their contributions to personality development with special emphasis on conceptual frameworks for family analysis.

*SOC 456 *Seminar in Advanced Sociological Inquiry* (3) II

Prerequisite: SOC 355. Synthesis and utilization of basic sociological principles and techniques in supervised independent theorization and verification, including the presentation of projects to seminar members and departmental faculty for evaluation and criticism.

SOC 490A *Topics in Sociology* (4) II

Topic: Sociological Measurement, with measurement lab. Prerequisite: consent of the department. Examination of specialized sociological topics selected by students and faculty.

*SOC 490B *Topics in Sociology* (3) S

Topic: Semi-Cultural Anthropology. Prerequisite: consent of the department. Examination of specialized sociological topics selected by students and faculty.

*SOC 490C *Topics in Sociology* (3) II

Topic: Adolescence and Youth. Prerequisite: consent of the department. Examination of specialized sociological topics selected by students and faculty.

*SOC 490D *Topics in Sociology* (3) II

Topic: The Sociology of Education. Prerequisite: consent of the department. Examination of specialized sociological topics selected by students and faculty.

*SOC 495 *Directed Individual Study* (1-4) I, II

Prerequisite: consent of the department. Supervised investigation of a sociological problem of special interest to the student. May be repeated for credit.

CLASS SCHEDULE BY SESSION

with the summer calendar
and the final examination schedules
also listed for each session

First Summer Session Calendar

May 26	Sunday	Residence halls open.
May 27	Monday	Registration
		Last day to register without a late penalty of $5.
May 28	Tuesday	Classes begin.
May 29	Wednesday	Last day to register or add a course.
May 30	Thursday	Last day to withdraw from or drop a course with refund.
June 11	Tuesday	Last day to drop a course without grade evaluation.
June 26	Wednesday	Last day to drop a course.
June 28	Friday	Last day of classes.

First Summer Session Final Examination Schedule

If Class Meeting Time Is:	The Examination Will Be:
8:00	Monday, July 1, 8:00-11:00
9:45	Tuesday, July 2, 8:00-11:00
11:30	Monday, July 1, 12:30-3:30
1:10, 1:15, 2:00	Tuesday, July 2, 12:30-3:30
3:00	Monday, July 1, 6:00-9:00 p.m.
4:45, 6:00, 7:40	Tuesday, July 2, 6:00-9:00 p.m.

First Summer Session Class Schedule

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
DEPARMENT OF ACCOUNTING						
ACC 201-01	*Principles of Accounting*	(3)		8:00- 9:30	Higgins	DEN 217
ACC 201-02	*Principles of Accounting*	(3)		9:45-11:15	Higgins	DEN 217
ACC 201-L01	*Principles of Accounting Laboratory*	(0)	W	2:00- 4:00	Higgins	DEN 109
ACC 371-01	*Cost Accounting*	(3)		8:00- 9:30	Hinson	DEN 114
ACC 371-02	*Cost Accounting*	(3)		11:30- 1:00	Hinson	DEN 114
ACC 371-L01	*Cost Accounting Laboratory*	(0)	T	2:00- 4:00	Hinson	DEN 109
ACC 374-01	*Intermediate Accounting I*	(3)		8:00- 9:30	Turner	DEN 118
ACC 374-02	*Intermediate Accounting I*	(3)		9:45-11:15	Turner	DEN 118
ACC 374-L01	*Intermediate Accounting I Laboratory*	(0)	M	2:00- 4:00	Turner	DEN 109
COLLEGE OF ARCHITECTURE						
ARC 101-01	*Studio/Seminar*	(7)		8:30- 4:00	Searl	ATK 318
ARC 201-01	*Studio/Seminar*	(7)		8:30- 4:00	Marchant	ATK 318
DEPARTMENT OF BIOLOGY						
BIO 101-01	*Principles of Biology*	(4)		11:30- 1:00	Johnson	KNDY 221
BIO 101-L01	*Principles of Biology Laboratory*	(0)	TWTh	9:00-10:50	Johnson	KNDY 221
BIO 101-L02	*Principles of Biology Laboratory*	(0)	TWTh	1:10- 3:00	Staff	KNDY 221
BIO 205-01	*Human Anatomy and Physiology*	(3)		11:30- 1:00	Hogan	KNDY 220
BIO 205A-L01	*Human Anatomy and Physiology Laboratory*	(1)	TWTh	1:10- 4:00	Hogan	KNDY 220
BIO 361-01	*Ecology*	(4)		11:30- 1:00	Menhinick	KNDY 214
BIO 361-L01	*Ecology Laboratory*	(0)	TWTh	1:10- 4:00	Menhinick	KNDY 214
BIO 497-01	*Investigations in Biology*	(1-4)	TBA	TBA	Staff	—
BIO 695-01	*Tutorial*	(1-4)	TBA	TBA	Staff	—
BIO 697-01	*Research and Thesis*	(1-8)	TBA	TBA	Staff	—
THE BLACK STUDIES PROGRAM						
BLS 101-01	*The Black Experience*	(3)		9:45-11:15	Maxwell	WINN 204
BLS 350A-01	*Topics in Black Studies* Topic: Community Problems	(3)		9:45-11:15	Ford	WINN 211
BLS 350C-01	*Topics in Black Studies* Topic: Modern Social History of Afro-Americans	(3)		11:30- 1:00	Maxwell	WINN 204
DEPARTMENT OF BUSINESS ADMINISTRATION						
BUS 311-01	*Marketing*	(3)		8:00- 9:30	Geurin	DEN 102
BUS 311-02	*Marketing*	(3)		9:45-11:15	Geurin	DEN 102
BUS 316-01	*Financial Management*	(3)		9:45-11:15	O'Brien	DEN 215
BUS 316-02	*Financial Management*	(3)		11:30- 1:00	O'Brien	DEN 215
BUS 380-01	*Business Law*	(3)		9:45-11:15	Trosch	DEN 205
BUS 382-01	*Sales, Credit and Security Transactions*	(3)		8:00- 9:30	Trosch	DEN 205
BUS 390A-01	*Topics in Business Administration,* Topic: Management Science	(3)		9:45-11:15	Conrad	DEN 206

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
BUS 390B-01	*Topics in Business Administration,* Topic: Information Systems	(3)		8:00- 9:00	Eatman	DEN 213
BUS 400-01	*Industrial Management*	(3)		8:00- 9:30	Conrad	DEN 206
BUS 400-02	*Industrial Management*	(3)		9:45-11:15	Eatman	DEN 213
BUS 444-01	*Organization Theory*	(3)		8:00- 9:30	Ruhe	DEN 215

DEPARTMENT OF CHEMISTRY

CHE 101-01	*Principles of Chemistry*	(4)		11:30- 1:00	DuBois	DEN 109
CHE 101-L01	*Principles of Chemistry Laboratory*	(0)	TWTh	1:15- 4:05	DuBois	KNDY 320
CHE 103-01	*General Chemistry*	(4)		11:30- 1:00	Norman	DEN 106
CHE 103-L01	*General Chemistry Laboratory*	(0)	TWTh	8:00-10:50	Jones	KNDY 320
CHE 103-L02	*General Chemistry Laboratory*	(0)	TWTh	1:15- 4:05	Norman	KNDY 309
CHE 231-01	*Organic Chemistry*	(4)		11:30- 1:00	Gibson	DEN 103
CHE 231-L01	*Organic Chemistry Laboratory*	(0)	TWTh	8:00-10:50	Jones	KNDY 310
CHE 231-L02	*Organic Chemistry Laboratory*	(0)	TWTh	1:15- 4:05	Gibson	KNDY 310
CHE 690-L01	*Research and Thesis*	(4)	TBA	TBA	Staff	KNDY 308

DEPARTMENT OF CREATIVE ARTS

Creative Arts Majors

Creative Arts Majors (Art, Music, Theatre, Creative Writing) must obtain **a registration authorization form** in the Creative Arts Office (Rowe 144) before reporting to the Gymnasium for completion of the Registration process.

Non-Majors

The following Creative Arts courses are for the **Non-Major only.** A maximum of six (6) hours may be elected in any session.

Directed Projects are not structured on a class basis. There are no regularly scheduled applied music classes, seminars, etc. However, any student may involve himself in virtually any aspect of the arts offered by the Creative Arts Department on an individually oriented basis. Any non-major interested in pursuing activities in the arts—ceramics, composition, appreciation, history, directing, acting, etc., would enroll in 211, 212, 213, A (art), M (music), T (theatre); 211 (one credit), 212 (two credits), and 213 (three credits). Directed projects are so named in order to leave the focus of study which each student desires on a flexible level.

IMPORTANT—The INITIAL meeting of all sections of the 211, 212, and 213 courses will be held at 8:00 a.m., May 28 for the first session, in the Rowe Building in the office of the faculty members offering the directed projects.

CA 211A 011	*Directed Projects—Art*	(1)	—	—	Anderson	ROWE 107
CA 211A 016	*Directed Projects—Art*	(1)	—	—	Hill	ROWE 241
CA 211A 019	*Directed Projects—Art*	(1)	—	—	Bringle	ROWE 266
CA 212A 011	*Directed Projects—Art*	(2)	—	—	Anderson	ROWE 107
CA 212A 016	*Directed Projects—Art*	(2)	—	—	Hill	ROWE 241
CA 212A 019	*Directed Projects—Art*	(2)	—	—	Bringle	ROWE 266
CA 213A 011	*Directed Projects—Art*	(3)	—	—	Anderson	ROWE 107
CA 213A 016	*Directed Projects—Art*	(3)	—	—	Hill	ROWE 241
CA 213A 019	*Directed Projects—Art*	(3)	—	—	Bringle	ROWE 266
CA 211M 022	*Directed Projects—Music*	(1)	—	—	Dailey	ROWE 258
CA 211M 025	*Directed Projects—Music*	(1)	—	—	Benjamin	ROWE 282
CA 211M 027	*Directed Projects—Music*	(1)	—	—	Turner	ROWE 289

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
CA 212M 022	*Directed Projects—Music*	(2)	—	—	Dailey	ROWE 258
CA 212M 025	*Directed Projects—Music*	(2)	—	—	Benjamin	ROWE 282
CA 212M 027	*Directed Projects—Music*	(2)	—	—	Turner	ROWE 289
CA 213M 022	*Directed Projects—Music*	(3)	—	—	Dailey	ROWE 258
CA 213M 025	*Directed Projects—Music*	(3)	—	—	Benjamin	ROWE 282
CA 213M 027	*Directed Projects—Music*	(3)	—	—	Turner	ROWE 289
CA 211T 033	*Directed Projects—Theatre*	(1)	—	—	Staff	ROWE 244
CA 212T 033	*Directed Projects—Theatre*	(2)	—	—	Staff	ROWE 244
CA 213 033	*Directed Projects—Theatre*	(3)	—	—	Staff	ROWE 244
DEPARTMENT OF ECONOMICS						
ECO 201-01	*Principles of Economics—Macro*	(3)		8:00- 9:30	Stone	DEN 203
ECO 201-02	*Principles of Economics—Macro*	(3)		9:45-11:15	Stone	DEN 203
ECO 201-03	*Principles of Economics—Macro*	(3)		11:30- 1:00	Rogers	DEN 203
ECO 305-01	*Industrial Relations*	(3)		9:45-11:15	Rogers	DEN 216
ECO 324-01	*Managerial Economics/ Business Policy*	(3)		9:45-11:15	Ruhe	BRND 103
DEPARTMENT OF ENGINEERING ANALYSIS AND DESIGN						
EAD 211-01	*Linear Networks I*	(3)		9:45-11:15	Wayne	SMTH 228
EAD 414-01	*Network Synthesis*	(3)		8:00- 9:30	Wayne	SMTH 228
DEPARTMENT OF ENGINEERING SCIENCE, MECHANICS, AND MATERIALS						
ESM 241-01	*Engineering Mechanics I*	(3)		8:00- 9:30	Norem	SMTH 227
ESM 341-01	*Mechanical Behavior of Solids*	(3)		1:15- 2:45	Norem	SMTH 227
DEPARTMENT OF ENGINEERING TECHNOLOGY						
ET 370-01	*Basic Engineering Analysis*	(3)		11:30- 1:00	Phelps	SMTH 327
ET 371-01	*Engineering Analysis I*	(3)		8:00- 9:30	Priebe	SMTH 327
DEPARTMENT OF URBAN AND ENVIRONMENTAL ENGINEERING						
LE 311-01	*Technology in Historical Perspective*	(3)		9:45-11:15	Coleman	SMTH 203
LE 390-01	*Special Topics in Environmental Control*	(3)		8:00- 9:30	Bell	SMTH 203
DEPARTMENT OF ENGLISH						
ENG 101-01	*English Composition*	(3)		8:00- 9:30	Shapiro	WINN 203
ENG 101-02	*English Composition*	(3)		11:30- 1:00	Boger	WINN 203
ENG 102-01	*English Composition*	(3)		9:45-11:15	Meyer	WINN 203
ENG 201-01	*English Literature*	(3)		9:45-11:15	Petrakis	WINN 214
ENG 201-02	*English Literature*	(3)		1:15- 2:45	Boger	WINN 206
ENG 203-01	*Masterpieces of Modern Fiction*	(3)		8:00- 9:30	McCall	WINN 206
ENG 204-01	*Major American Writers*	(3)		11:30- 1:00	Meyer	WINN 206
ENG 331-01	*History of the English Language*	(3)		9:45-11:15	Varnas	WINN 208
ENG 332-01	*Introduction to Modern English*	(3)		1:15- 2:45	Varnas	WINN 208
ENG 342-01	*American Literature Since 1890*	(3)		11:30- 1:00	Shapiro	WINN 208
ENG 351-01	*Literary Criticism Through Arnold*	(3)		9:45-11:15	McCall	WINN 206
ENG 423-01	*The Modern British Novel*	(3)		8:00- 9:30	Petrakis	WINN 214
ENG 461-01	*Modern English Grammar*	(3)		11:30- 1:00	Hedges	WINN 214

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
ENG 465-01	*Social Dialects*	(3)		1:15- 2:45	Hedges	WINN 214
ENG 641-01	*American Romanticism*	(3)		1:15- 2:45	Mason	WINN 203
ENG 680-01	*Seminar in English Literature*	(3)		9:45-11:15	Burne	WINN 216
DEPARTMENT OF FOREIGN LANGUAGES						
FRE 101-01	*Elementary French*	(4)		9:45-11:15	Saman	MACY 210
FRE 101-L01	*Elementary French Laboratory*	(0)		11:30-12:20	Saman	MACY 106
FRE 201-01	*Intermediate French*	(4)		9:45-11:15	Rose	MACY 207
FRE 201-L01	*Intermediate French Laboratory*	(0)		11:30-12:20	Rose	MACY 106
GER 101-01	*Elementary German*	(4)		9:45-11:15	Merrill	MACY 206
GER 101-L01	*Elementary German Laboratory*	(0)		11:30-12:20	Merrill	MACY 107
GER 201-01	*Intermediate German*	(4)		9:45-11:15	Gabriel	MACY 205
GER 201-L01	*Intermediate German*	(0)		11:30-12:20	Gabriel	MACY 107
SPA 101-01	*Elementary Spanish*	(4)		11:30- 1:00	Gleaves	MACY 207
SPA 101-L01	*Elementary Spanish Laboratory*	(0)		10:30-11:20	Gleaves	MACY 106
SPA 450-01	*Selected Readings in Spanish*	(3)		1:15- 2:45	Gleaves	MACY 207
DEPARTMENT OF GEOGRAPHY AND EARTH SCIENCES						
GGY 102-01	*World Regional Geography*	(3)		9:45-11:15	Catau/ Ingalls	SMTH 217
GGY 316-01	*Geography of Tertiary Activity*	(3)		8:00- 9:30	Lord	SMTH 218
GGY 450-01	*Special Problems in Geography*	(1)	TBA	TBA	Staff	—
GGY 450-02	*Special Problems in Geography*	(2)	TBA	TBA	Staff	—
GGY 450-03	*Special Problems in Geography*	(3)	TBA	TBA	Staff	—
GGY 450-04	*Special Problems in Geography*	(4)	TBA	TBA	Staff	—
ES 102-01	*Earth Science Geology*	(4)		8:00- 9:30	Keller	SMTH 217
ES 102-L01	*Earth Science Geology Laboratory*	(0)	TW	2:00- 5:00	Staff	SMTH 245
ES 380-01	*Environmental Geology*	(3)		11:30- 1:00	Keller	SMTH 217
DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION						
PED 120-01	*Beginning Tennis*	(1)		1:15- 2:45	Kingery	PE 222 & Courts
PED 120-02	*Beginning Tennis*	(1)		3:00- 4:30	Kingery	PE 222 & Courts
PED 409-01	*Physical Education Laboratory*	(3)		9:45-11:15	Tillotson	PE 025
HED 409-01	*Health Education Laboratory*	(3)		8:00- 9:30	Dawson	PE 227
DEPARTMENT OF HISTORY						
HIS 103-01	*American History I*	(3)		8:00- 9:30	Perzel	DEN 115
HIS 104-01	*American History II*	(3)		9:45-11:15	Robbins	DEN 117
HIS 109-01	*History of Latin America I*	(3)		8:00- 9:30	Johnson	DEN 105
HIS 111-01	*African History I*	(3)		1:15- 2:45	Patterson	DEN 114
HIS 302-01	*The High and Later Middle Ages (1056 A.D.-1349 A.D.)*	(3)		11:30- 1:00	Wrigley	DEN 118
HIS 350D-01	*Topics in History*, Topic: History of Argentina	(3)		9:45-11:15	Johnson	DEN 105
HIS 350M-01	*Topics in History*, Topic: Victorian England	(3)		1:15- 2:45	Abernathy	DEN 117
HIS 361-01	*Britain to 1485*	(3)		11:30- 1:00	Abernathy	DEN 117
HIS 374-01	*America in Crisis, 1824-1860*	(3)		11:30- 1:00	Robbins	DEN 115
HIS 393-01	*Frontier in American History*	(3)		9:45-11:15	Perzel	DEN 115

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
HIS 492-01	*Seminar in Medieval Urban History*	(3)		1:15- 2:45	Wrigley	DEN 118
HIS 650-01	*Topics in History,* Topic: India and Africa: A Cultural Approach	(3)		9:45- 1:00	Patterson/ White	DEN 114
DEPARTMENT OF HUMAN DEVELOPMENT AND LEARNING						
Phase I. Explorations in Human Potential						
HDL 201-01	*Introductory Explorations in Human Potential*	(3)		8:00- 9:00	Holland	MACY 204
HDL 201-02	*Introductory Explorations in Human Potential*	(3)		9:45-11:15	Staff	SMTH 218
HDL 201-03	*Introductory Explorations in Human Potential*	(3)		11:30- 1:00	Lueder	MACY 205
HDL 600C-N	*Explorations in Human Potential:* Topic: *Children and Youth*	(3)	MWTh	6:00- 8:30	Holland	MACY 204
Phase II. Meaning and Growth in Teaching/Learning Relationships						
HDL 301-01	*Reading and the Language Arts*	(3)		9:45-11:15	Rippy	MACY 208
HDL 301-02	*Reading and the Language Arts*	(3)		1:15- 2:45	Rippy	MACY 208
HDL 303-01	*Elementary Education I: Organization and Curriculum*	(3)		8:00- 9:30	Baptiste	MACY 206
HDL 303-02	*Elementary Education I: Organization and Curriculum*	(3)		11:30- 1:00	Baptiste	MACY 206
Phase III. The Helping Relationship						
HDL 660-N	*Behavioral Analysis of Administration*	(3)	MWTh	6:00- 8:30	Lueder	MACY 205
HDL 665C-N	*Analysis and Developing Approaches to the Helping Relationships,* Topic: Counseling	(3)	MWTh	6:00- 8:30	Mankinen	MACY 206
Phase IV. Experience and Commitment in Human Development and Learning						
HDL 570A-01	*Selected Topics in Human Development and Learning,* Topic: Living/Learning Styles	(3)	TBA	TBA	Staff	—
HDL 671B-01	*Seminar and Internship in Human Development and Learning,* Topic: Counseling	(3)	TBA	TBA	Mankinen	TBA
DEPARTMENT OF MATHEMATICS						
MAT 101-01	*Basic Concepts of Mathematics*	(3)		8:00- 9:30	Stewart	BRND 105
MAT 120-01	*Calculus*	(3)		9:45-11:15	Stewart	BRND 105
MAT 122-01	*Elements of Statistics*	(3)		8:00- 9:30	Roth	BRND 104
MAT 122-02	*Elements of Statistics*	(3)		9:45-11:15	Allen	BRND 104
MAT 130-01	*Elementary School Mathematics I*	(3)		3:00- 4:30	Wright	BRND 105
MAT 143-01	*Differential Calculus I*	(3)		8:00- 9:30	Allen	BRND 103
MAT 144-01	*Integral Calculus I*	(3)		11:30- 1:00	Roth	BRND 104
MAT 350-01	*Topics in Mathematics,* Topic: Algebra	(3)		1:15- 2:45	Staff	BRND 104
MAT 403-01	*Arithmetic in the School*	(3)		4:45- 6:15	Wright	BRND 105
CSC 100-01	*Algorithmic Languages I*	(3)		9:45-11:45	Staff	SMTH 201
CSC 100-N	*Algorithmic Languages I*	(3)		6:00- 8:00	Staff	SMTH 201

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
COLLEGE OF NURSING						
NUR 102-01	*Ecology of Man I*	(3)		1:15- 2:45	Caddell	PE 229
NUR 201-01	*Fundamentals of Nursing I*	(4)	MF	8:00-10:30	Norris	PE 229
NUR 201-L01	*Fundamentals of Nursing I Laboratory*	(0)	TWTh	7:30-11:30	Staff/Norris	—
DEPARTMENT OF PHILOSOPHY						
PHI 201-01	*Introduction to Philosophy*	(3)		9:45-11:15	Presler	ROWE 125
PHI 205-01	*Deductive Logic*	(3)		8:00- 9:30	Lincourt	WINN 208
PHI 205-02	*Deductive Logic*	(3)		9:45-11:15	Shumaker	ROWE 125
PHI 301-01	*Ethics*	(3)		11:30- 1:00	Shumaker	ROWE 125
DEPARTMENT OF PHYSICS						
PHY 101-N	*Introductory Physics I*	(4)		6:00- 7:30	Oberhofer	KNDY 107
PHY 101-L01	*Introductory Physics I Laboratory*	(0)	TWTh	2:10- 5:00	Vermillion	KNDY 113
PHY 101-LN	*Introductory Physics I Laboratory*	(0)	TWTh	7:40-10:20	Vermillion	KNDY 113
PHY 222-01	*Waves and Thermal Physics*	(3)		11:30- 1:00	Oberhofer	SMTH 301
DEPARTMENT OF POLITICAL SCIENCE						
PSC 201-01	*Introduction to American Politics*	(3)		8:00- 9:30	McCoy	BRND 101
PSC 309-01	*Political Parties and Interest Groups*	(3)		9:45-11:15	McCoy	BRND 101
PSC 322-01	*Contemporary Urban Problems and Policies*	(3)		8:00- 9:30	Lyons	BRND 102
PSC 349-01	*Government and Politics of East Asia*	(3)		8:00- 9:30	Lewis	DEN 106
PSC 359-01	*Soviet Foreign Policy*	(3)		11:30- 1:00	Jamgotch	BRND 101
PSC 496A-01	*Selected Topics in American Politics,* Topic: The Congress	(3)		9:45-11:15	Arrington	BRND 102
PSC 496B-01	*Selected Topics in American Politics,* Topic: The Presidency	(3)		11:30- 1:00	Arrington	BRND 102
PSC 497A-01	*Selected Topics in Comparative Politics,* Topic: Communist Politics	(3)		9:45-11:15	Jamgotch	DEN 106
PSC 497B-01	*Selected Topic in Comparative Politics,* Topic: The Politics of China	(3)		11:30- 1:00	Lewis	BRND 105
PSC 496-01	*Selected Topics in American Politics*	(3)	TBA	TBA	Staff	—
PSC 497-01	*Selected Topics in Comparative Politics*	(3)	TBA	TBA	Staff	—
PSC 498-01	*Selected Topics in International Relations*	(3)	TBA	TBA	Staff	—
DEPARTMENT OF PSYCHOLOGY						
PSY 101-01	*General Psychology*	(3)		9:45-11:15	Grimsley	DEN 103
PSY 101-L01	*General Psychology Lab*	(1)	MW	1:15- 4:00	Wroten	WINN 102
PSY 101-L02	*General Psychology Lab*	(1)	TTh	1:15- 4:00	Wroten	WINN 102
PSY 202-01	*Educational Psychology*	(3)		11:30- 1:00	Toner	WINN 101
PSY 203-01	*Psychology of Adjustment*	(3)		8:00- 9:30	Selby	WINN 101

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
PSY 210-01	*Developmental Psychology*	(3)		9:45-11:15	Haskett	WINN 109
PSY 220-01	*Child Psychology*	(3)		9:45-11:15	Lamal	WINN 207
PSY 230-01	*Adolescent Psychology*	(3)		8:00- 9:30	Haskett	WINN 109
PSY 240-01	*Experimental Psychology*	(4)		11:30- 1:00	Sohn	WINN 109
PSY 240-L01	*Experimental Psychology Lab*	(0)	TTh	1:00- 4:00	Sohn	WINN 107
PSY 305-01	*Psychology of Personality*	(3)		9:45-11:15	Calhoun	WINN 205
PSY 307-01	*Abnormal Psychology*	(3)		9:45-11:15	Selby	WINN 101
PSY 489-01	*Practicum in Applied Psychology*	(1)	TBA	TBA	Staff	—
PSY 489-02	*Practicum in Applied Psychology*	(2)	TBA	TBA	Staff	—
PSY 489-03	*Practicum in Applied Psychology*	(3)	TBA	TBA	Staff	—
PSY 489-04	*Practicum in Applied Psychology*	(4)	TBA	TBA	Staff	—
PSY 490-01	*Individual Research*	(1)	TBA	TBA	Staff	—
PSY 490-02	*Individual Research*	(2)	TBA	TBA	Staff	—
PSY 490-03	*Individual Research*	(3)	TBA	TBA	Staff	—
PSY 490-04	*Individual Research*	(4)	TBA	TBA	Staff	—
PSY 495-01	*Seminar in Developmental Psychology*	(3)		1:15- 2:45	Toner	WINN 216

DEPARTMENT OF RELIGIOUS STUDIES

REL 201-01	*Hebrew Religious Thought*	(3)		8:00- 9:30	St. Clair	ROWE 134
REL 201-02	*Hebrew Religious Thought*	(3)		9:45-11:15	St. Clair	ROWE 134
REL 203-01	*Eastern Religions*	(3)		11:30- 1:00	Meyer	ROWE 134

DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

SOC 151-01	*Introduction to Sociology*	(3)		9:45-11:15	Forrest	MACY 201
SOC 203-01	*Cultural Anthropology*	(3)		8:00- 9:30	Ferraro	MACY 201
SOC 354-01	*Sociological Inquiry: Theories and their Construction*	(3)		11:30- 1:00	Cook	MACY 201
SOC 355-01	*Sociological Inquiry: Methods of Verification*	(4)		9:45-11:15	Lance	MACY 204
SOC 355-L01	*Sociological Inquiry: Methods of Verification Laboratory*	(0)	TTh	11:30- 1:00	Lance	MACY 204
SOC 361-01	*Socialization and Society*	(3)		9:45-11:15	Wilson	SMTH 204
SOC 372-01	*Sociology of Deviant Behavior*	(3)		11:30- 1:00	Adams	SMTH 204
SOC 372-N	*Sociology of Deviant Behavior*	(3)	MTWTh	6:00- 8:00	Adams	SMTH 204
SOC 411-01	*Social Stratification: Power, Privileges, and Prestige*	(3)	—	1:15- 2:45	Wilson	SMTH 204
SOC 495-01	*Directed Individual Study*	(1)	TBA	TBA	Staff	—
SOC 495-02	*Directed Individual Study*	(2)	TBA	TBA	Staff	—
SOC 495-03	*Directed Individual Study*	(3)	TBA	TBA	Staff	—
SOC 495-04	*Directed Individual Study*	(4)	TBA	TBA	Staff	—

Second Summer Session Calendar

July 8	Monday	Registration. Last day to register without a late penalty of $5.
July 9	Tuesday	Classes begin.
July 10	Wednesday	Last day to register or add a course.
July 11	Thursday	Last day to withdraw from or drop a course with refund.
July 22	Monday	Last day to drop a course without grade evaluation.
August 7	Wednesday	Last day to drop a course
August 9	Friday	Last day of classes.

Second Summer Session Final Examination Schedule*

If Class Meeting Time Is:	The Examination Will Be:
8:00	Monday, August 12, 8:00-11:00
9:45	Tuesday, August 13, 8:00-11:00
11:30	Monday, August 12, 12:30-3:30
1:10, 1:15, 2:00	Tuesday, August 13, 12:30-3:30
3:00	Monday, August 12, 6:00-9:00 p.m.
4:45, 6:00, 7:40	Tuesday, August 13, 6:00-9:00 p.m.

*Teachers who must report to work during a regular scheduled examination period may arrange with their instructors for an alternate examination time.

Second Summer Session Class Schedule

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
DEPARTMENT OF ACCOUNTING						
ACC 202-01	*Principles of Accounting*	(3)		8:00- 9:30	Williamson	DEN 217
ACC 202-02	*Principles of Accounting*	(3)		9:45-11:15	Williamson	DEN 217
ACC 202-L01	*Principles of Accounting Laboratory*	(0)	W	2:00- 4:00	Williamson	DEN 109
ACC 375-01	*Intermediate Accounting II*	(3)		9:45-11:15	Drucker	DEN 206
ACC 375-02	*Intermediate Accounting II*	(3)		11:30- 1:00	Drucker	DEN 206
ACC 375-L01	*Intermediate Accounting II Laboratory*	(0)	T	2:00- 4:00	Drucker	DEN 109
COLLEGE OF ARCHITECTURE						
ARC 102-01	*Studio/Seminar*	(7)		8:30- 4:00	Searl	ATK 318
ARC 202-01	*Studio/Seminar*	(7)		8:30- 4:00	Marchant	ATK 318
ARC 302-01	*Studio/Seminar*	(7)		8:30- 4:00	Anderson	ATK 318
DEPARTMENT OF BIOLOGY						
BIO 203-01	*Bacteriology*	(3)		11:30- 1:00	Travis	KNDY 215
BIO 203A-L01	*Baceteriology Laboratory*	(1)	TWTh	1:10- 4:00	Travis	KNDY 215
BIO 203A-L02	*Bacteriology Laboratory*	(1)	TWTh	8:30-11:20	Staff	KNDY 215
BIO 221-01	*Animal Biology*	(4)		11:30- 1:00	Graul	KNDY 214
BIO 221-L01	*Animal Biology Laboratory*	(0)	TWTh	1:10- 4:00	Graul	KNDY 214
BIO 221-L02	*Animal Biology Laboratory*	(0)	TWTh	8:30-11:20	Staff	KNDY 214
BIO 331-01	*Genetics*	(3)		9:45-11:15	Ostrowski	KNDY 107
BIO 335-01	*Human Genetics*	(3)		8:00- 9:30	Ostrowski	KNDY 107
BIO 395A-01	*Special Topics in Biology* Topic: Herpetology	(4)		11:30- 1:00	Butts	KNDY 201
BIO 395A-L01	*Special Topics in Biology Herpetology Laboratory*	(0)	TWTh	1:10- 4:00	Butts	KNDY 201
BIO 497-01	*Investigations in Biology*	(1-4)	TBA	TBA	Staff	—
BIO 695-01	*Tutorial*	(1-4)	TBA	TBA	Staff	—
BIO 697-01	*Research and Thesis*	(1-8)	TBA	TBA	Staff	—
DEPARTMENT OF BUSINESS ADMINISTRATION						
BUS 316-01	*Financial Management*	(3)		8:00- 9:30	Walls	DEN 206
BUS 380-01	*Business Law*	(3)		9:45-11:15	Williams	DEN 102
BUS 382-01	*Sales, Credit and Security Transactions*	(3)		8:00- 9:30	Williams	DEN 102
BUS 400-01	*Industrial Management*	(3)		8:00- 9:30	Barnes	DEN 205
BUS 444-01	*Organization Theory*	(3)		8:45-11:15	Barnes	DEN 205
DEPARTMENT OF CHEMISTRY						
CHE 102-01	*Principles of Chemistry*	(4)		11:30- 1:00	Staff	DEN 109
CHE 102-L01	*Principles of Chemistry Laboratory*	(0)	TWTh	1:15- 4:05	Staff	KNDY 320
CHE 104-01	*General Chemistry*	(4)		11:30- 1:00	Norman	DEN 106
CHE 104-L01	*General Chemistry Laboratory*	(0)	TWTh	8:00-10:50	Rillema	KNDY 320
CHE 104-L02	*General Chemistry Laboratory*	(0)	TWTh	1:15- 4:05	Norman	KNDY 309
CHE 232-01	*Organic Chemistry*	(4)		11:30- 1:00	Walsh	DEN 105
CHE 232-L01	*Organic Chemistry Laboratory*	(0)	TWTh	1:15- 4:05	Walsh	KNDY 310
CHE 690-L01	*Research and Thesis*	(4)	TBA	TBA	Staff	—

DEPARTMENT OF CREATIVE ARTS

Creative Arts Majors

Creative Arts Majors (Art, Music, Theatre, Creative Writing) must obtain a **registration authorization form** in the Creative Arts Office (Rowe 144) before reporting to the Gymnasium for completion of the Registration process.

Non-Majors

The following Creative Arts courses are for the **Non-Major only.** A maximum of six (6) hours may be elected in any session.

Directed Projects are not structured on a class basis. There are no regularly scheduled applied music classes, seminars, etc. However, any student may involve himself in virtually any aspect of the arts offered by the Creative Arts Department on any individually oriented basis. Any non-major interested in pursuing activities in the arts—ceramics, composition, appreciation, history, directing, acting, etc., would enroll in 211, 212, 213, A (art), M (music), T (theatre); 211 (one credit), 212 (two credits), and 213 (three credits). Directed projects are so named in order to leave the focus of study which each student desires on a flexible level.

IMPORTANT—The INITIAL meeting of **all** of the 211, 212, and 213 courses will be held at 8:00 a.m., July 9, for the Second session, in the Rowe Building in the office of the faculty member offering the directed project.

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
CA 211A 014	*Directed Projects—Art*	(1)	—	—	Mason	ROWE 114
CA 211A 018	*Directed Projects—Art*	(1)	—	—	Soellner	ROWE 268
CA 211A 015	*Directed Projects—Art*	(1)	—	—	Young	ROWE 218
CA 212A 014	*Directed Projects—Art*	(2)	—	—	Mason	ROWE 114
CA 212A 018	*Directed Projects—Art*	(2)	—	—	Soellner	ROWE 268
CA 212A 015	*Directed Projects—Art*	(2)	—	—	Young	ROWE 218
CA 213A 014	*Directed Projects—Art*	(3)	—	—	Mason	ROWE 114
CA 213A 018	*Directed Projects—Art*	(3)	—	—	Soellner	ROWE 268
CA 213A 015	*Directed Projects—Art*	(3)	—	—	Young	ROWE 218
CA 211M 026	*Directed Projects—Music*	(1)	—	—	Mosley	ROWE 293
CA 211M 030	*Directed Projects—Music*	(1)	—	—	Reid	ROWE 267
CA 212M 026	*Directed Projects—Music*	(2)	—	—	Mosley	ROWE 293
CA 212M 030	*Directed Projects—Music*	(2)	—	—	Reid	ROWE 267
CA 213M 026	*Directed Projects—Music*	(3)	—	—	Mosley	ROWE 293
CA 213M 030	*Directed Projects—Music*	(3)	—	—	Reid	ROWE 267
CA 211T 035	*Directed Projects—Theatre*	(1)	—	—	Beasley	ROWE 235
CA 212T 035	*Directed Projects—Theatre*	(2)	—	—	Beasley	ROWE 235
CA 213T 035	*Directed Projects—Theatre*	(3)	—	—	Beasley	ROWE 235

DEPARTMENT OF ECONOMICS

ECO 202-01	*Principles of Economics—Micro*	(3)	8:00- 9:30	Liner	DEN 203
ECO 202-02	*Principles of Economics—Micro*	(3)	9:45-11:15	Liner	DEN 203
ECO 305-01	*Industrial Relations*	(3)	9:45-11:15	Davis	DEN 213
ECO 324	*Managerial Economics/ Business Policy*	(3)	11:30- 1:00	Walls	DEN 205
ECO 370-01	*Monetary and Fiscal Policy*	(3)	8:00- 9:30	Davis	DEN 213
ECO 480-01	*Industrial Organization and Public Policy*	(3)	11:30- 1:00	Jorgensen	DEN 203

DEPARTMENT OF ENGINEERING ANALYSIS AND DESIGN

EAD 212-01	*Linear Analysis I*	(3)	11:15-12:45	Seevers	SMTH 228

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
DEPARTMENT OF ENGINEERING SCIENCE, MECHANICS, AND MATERIALS						
ESM 242-01	*Engineering Mechanics II*	(3)		8:00- 9:30	Crippen	SMTH 227
ESM 311-01	*Thermodynamics II*	(3)		8:00- 9:30	Kim	SMTH 301
DEPARTMENT OF ENGINEERING TECHNOLOGY						
ET 471-01	*Engineering Analysis II*	(3)		9:45-11:15	Bromm	SMTH 327
DEPARTMENT OF URBAN AND ENVIRONMENTAL ENGINEERING						
LE 311-01	*Technology in Historical Perspective*	(3)		9:45-11:15	Coleman	SMTH 203
LE 390-01	*Special Topics in Environmental Control*	(3)		8:00- 9:30	Bell	SMTH 203
DEPARTMENT OF ENGLISH						
ENG 101-01	*English Composition*	(3)		8:00- 9:30	Davis	WINN 203
ENG 102-01	*English Composition*	(3)		8:00- 9:30	Grey	WINN 216
ENG 102-02	*English Composition*	(3)		9:45-11:15	Robinson	WINN 203
ENG 112-01	*Masterpieces of World Literature II*	(3)		11:30- 1:00	Brashear	WINN 216
ENG 202-01	*English Literature*	(3)		9:45-11:15	McGavran	WINN 214
ENG 202-01	*English Literature*	(3)		11:30- 1:00	Watson	WINN 208
ENG 203-01	*Masterpieces of Modern Fiction*	(3)		1:15- 2:45	Burne	WINN 214
ENG 325-01	*The Romantic Era, 1785-1832*	(3)		8:00- 9:30	McGavran	WINN 214
ENG 327-01	*English Literature from 1870-1914*	(3)		1:15- 2:45	Robinson	WINN 206
ENG 332-01	*Introduction to Modern English*	(3)		9:45-11:15	Davis	WINN 216
ENG 421-01	*The English Novel Before Scott*	(3)		1:15- 2:45	Brashear	WINN 216
ENG 450-01	*Modern Poetry*	(3)		11:30- 1:00	Grey	WINN 214
ENG 612-01	*Shakespeare's Tragedies*	(3)		9:45-11:15	Moose	WINN 206
ENG 662-01	*Advanced Rhetoric*	(3)		8:00- 9:30	Watson	WINN 208
ENG 680-01	*Seminar in English Literature*	(3)		11:30- 1:00	Moose	WINN 206
DEPARTMENT OF FOREIGN LANGUAGES						
FRE 102-01	*Elementary French*	(4)		9:45-11:15	Slechta	MACY 210
FRE 102-L01	*Elementary French Laboratory*	(0)		11:30-12:20	Slechta	MACY 106
FRE 202-01	*Intermediate French*	(4)		11:30- 1:00	Bush	MACY 210
FRE 202-L01	*Intermediate French Laboratory*	(0)		10:30-11:20	Bush	MACY 106
GER 102-01	*Elementary German*	(4)		8:00- 9:30	Reimer	MACY 205
GER 102-L01	*Elementary German Laboratory*	(0)		10:30-11:20	Reimer	MACY 107
GER 202-01	*Intermediate German*	(4)		1:15- 2:45	Reimer	MACY 205
GER 202-L01	*Intermediate German Laboratory*	(0)		11:30-12:20	Reimer	MACY 107
SPA 102-01	*Elementary Spanish*	(4)		11:30- 1:00	McLeod	MACY 207
SPA 102-L01	*Elementary Spanish Laboratory*	(0)		10:30-11:20	McLeod	MACY 106
SPA 201-01	*Intermediate Spanish*	(4)		9:45-11:15	McLeod	MACY 207
SPA 201-L01	*Intermediate Spanish*	(0)		11:30-12:20	McLeod	MACY 106
DEPARTMENT OF GEOGRAPHY AND EARTH SCIENCES						
GGY 302-01	*Geography of Polar Regions*	(3)		9:45-11:15	Stuart	SMTH 217
GGY 303-01	*Geography of Anglo-America*	(3)		11:30- 1:00	Walcott	SMTH 217
GGY 319-01	*Geography of Industrial Activity*	(3)		9:45-11:15	Walcott	SMTH 218
GGY 320-01	*Geography of Urban Systems*	(3)		8:00- 9:30	Ingalls	SMTH 217
GGY 321-01	*Geographic Structure of the City*	(3)		11:30- 1:00	Catau	SMTH 218

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
GGY 450-01	*Special Problems in Geography*	(1)	TBA	TBA	Staff	—
GGY 450-02	*Special Problems in Geography*	(2)	TBA	TBA	Staff	—
GGY 450-03	*Special Problems in Geography*	(3)	TBA	TBA	Staff	—
GGY 450-04	*Special Problems in Geography*	(4)	TBA	TBA	Staff	—
ES 347-01	*Global Climates*	(3)		8:00- 9:30	Bedford	SMTH 218
DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION						
HED 409-01	*Health Education Laboratory*	(3)		8:00- 9:30	Bastian	PE 227
PED 409-01	*Physical Education Laboratory*	(3)		3:00- 4:30	Murphy	PE 222
DEPARTMENT OF HISTORY						
HIS 101-01	*Modern Western Civilization to 1815*	(3)		11:30- 1:00	Boucher	DEN 118
HIS 102-01	*Modern Western Civilization from 1815 to the Present*	(3)		9:45-11:15	Dunkley	DEN 118
HIS 104-01	*American History II*	(3)		9:45-11:15	Josephson	DEN 114
HIS 105-01	*Ancient History*	(3)		9:45-11:15	Ploger	DEN 117
HIS 304-01	*History of Rome*	(3)		8:00- 9:30	Ploger	DEN 117
HIS 350N-01	*Topics in History,* Topic: France, 987-1715	(3)		11:30- 1:00	Dunkley	DEN 117
HIS 350P-01	*Topics in History,* Topic: World War II	(3)		8:00- 9:30	Morrill	DEN 115
HIS 350Q-01	*Topics in History,* Topic: Colonization in the Caribbean (1492-1763)	(3)		1:15- 2:45	Boucher	DEN 118
HIS 492-01	*Seminar in Recent American Radicalism*	(3)		8:00- 9:30	Josephson	DEN 114
HIS 694-01	*Readings in History*	(3)		9:45-11:15	Morrill	DEN 115
DEPARTMENT OF HUMAN AND DEVELOPMENT AND LEARNING						
Phase I. Explorations in Human Potential						
HDL 201-01	*Introductory Explorations in Human Potential*	(3)		8:00- 9:30	Staff	MACY 206
HDL 201-02	*Introductory Explorations in Human Potential*	(3)		11:30- 1:00	Pasternak	MACY 206
HDL 201-N	*Introductory Explorations in Human Potential*	(3)	MWTh	6:00- 8:30	Staff	MACY 204
HDL 570C-01	*Selected Topics in Human Development and Learning,* Topic: Developmental Disabilities	(3)		9:45-11:15	Rollins	MACY 208
HDL 600A-01	*Explorations in Human Potential,* Topic: The Person and School in Urban Society	(3)		9:45-11:15	Pleasants	MACY 206
HDL 600A-N	*Explorations in Human Potential,* Topic: The Person and School in Urban Society	(3)	MWTh	6:00- 8:30	Pasternak	MACY 206
HDL 600B-01	*Explorations in Human Potential,* Topic: The Facilitation of Meaning	(3)		9:45-11:15	Antonelli	ATK 06

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
HDL 600B-02	*Explorations in Human Potential,* Topic: The Facilitation of Meaning	(3)		8:00- 9:30	Antonelli	ATK 06
HDL 600C-01	*Explorations in Human Potential,* Topic: Children and Youth	(3)		9:45-11:15	Bransky	SMTH 226
HDL 600C-N	*Explorations in Human Potential* Topic: Children and Youth	(3)	MWTh	6:00- 8:30	Powers	MACY 205
HDL 606-01	*Adjustment Problems, Children and Youth*	(3)		11:30- 1:00	Powers	MACY 205
Phase II. Meaning and Growth in Teaching/Learning Relationships						
HDL 301-01	*Reading and the Language Arts*	(3)		9:45-11:15	Roberts	SMTH 227
HDL 301-02	*Reading and the Language Arts*	(3)		1:15- 2:45	Staff	ATK 06
HDL 303-01	*Elementary Education I: Organization and Curriculum*	(3)		11:30- 1:00	Rollins	MACY 208
HDL 303-N	*Elementary Education I: Organization and Curriculum*	(3)	MWTh	6:00- 8:30	Staff	MACY 207
HDL 570G-01	*Selected Topics in Human Development and Learning,* Topic: Living/Learning Environments	(3)		11:30- 1:00	Rowland	SMTH 301
HDL 620A-01	*Curriculum Theory,* Topic: Meaning and Growth	(3)		9:45-11:15	Mork	SMTH 228
HDL 620A-02	*Curriculum Theory,* Topic: Meaning and Growth	(3)		11:30- 1:00	Smith	SMTH 327
HDL 620B-01	*Curriculum Theory,* Topic: Creativity and Experiences	(3)		9:45-11:15	Rowland	SMTH 301
HDL 620B-02	*Curriculum Theory,* Topic: Creativity and Experiences	(3)		11:30- 1:00	Bransky	SMTH 226
HDL 620C-01	*Curriculum Theory,* Topic: Strategies and Designs	(3)		9:45-11:15	Sadoff	SMTH 325
HDL 620C-02	*Curriculum Theory,* Topic: Strategies and Designs	(3)		11:30- 1:00	Sadoff	SMTH 325
HDL 625B-01	*Concepts of Teaching and Learning,* Topic: Language Development and Reading	(3)		11:30- 1:00	Roberts	SMTH 227
HDL 630-01	*Examination and Appraisal of Reading*	(3)		11:30- 1:00	Hackney	SMTH 203
HDL 635-01	*Learning Media, Resources, and Technology*	(3)		8:00- 9:30	Mork	MACY 207
Phase III. The Helping Relationship						
HDL 660-N	*Behavioral Analysis of Administration*	(3)	MWTh	6:00- 8:30	Hackney	SMTH 203
HDL 663-01	*Developmental Approaches to the Theory and Practices of Guidance*	(3)		9:45-11:15	Burke	SMTH 331
HDL 663-N	*Developmental Approaches to the Theory and Practices of Guidance*	(3)	MWTh	6:00- 8:30	Irons	SMTH 331
HDL 665C-01	*Analyzing and Developing Approaches to the Helping Relationships.* Topic: Counseling	(3)		11:30- 1:00	Irons	SMTH 331

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
HDL 665D-01	*Analyzing and Developing Approaches to the Helping Relationships,* Topic: Supervision	(3)		11:30- 1:00	Pleasants	ATK 06
Phase IV. Experience and Commitment in Human Development and Learning						
HDL 570A-01	*Selected Topics in Human Development and Learning,* Topic: Living/Learning Styles	(3)	TBA	TBA	Staff	—
HDL 671B-01	*Seminar and Internship in Human Development and Learning,* Topic: Counseling	(3)	TBA	TBA	Burke	TBA
HDL 672-01	*Problems in Human Development and Learning*	(3)	TBA	TBA	Smith	—
HDL 672-02	*Problems in Human Development and Learning*	(6)	TBA	TBA	Smith	—
DEPARTMENT OF MATHEMATICS						
MAT 101-01	*Basic Concepts of Mathematics*	(3)		9:45-11:15	Staff	BRND 105
MAT 103-01	*Concepts of Mathematics*	(3)		8:00- 9:30	Staff	BRND 103
MAT 104B-01	*Vector Geometry II*	(2)		9:45-11:15	Schell	BRND 103
MAT 120-01	*Calculus*	(3)		8:00- 9:30	Staff	BRND 105
MAT 122-01	*Elements of Statistics*	(3)		8:00- 9:30	Reiter	BRND 104
MAT 122-02	*Elements of Statistics*	(3)		11:30- 1:00	Quinn	BRND 104
MAT 143-01	*Differential Calculus I*	(3)		9:45-11:15	Quinn	BRND 104
MAT 244-01	*Integral Calculus II*	(3)		9:45-11:15	Schurle	BRND 108
CSC 100-01	*Algorithmic Languages I*	(3)		11:30- 1:30	Staff	SMTH 201
CSC 201-01	*Computers and Programming*	(3)		1:15- 2:45	Ju	SMTH 203
COLLEGE OF NURSING						
NUR 202-01	*Fundamentals of Nursing II*	(4)	MF	8:00-10:30	Norris	PE229
NUR 202-L01	*Fundamentals of Nursing II Laboratory*	(0)	TWTh	7:30-11:30	Staff/ Norris	—
DEPARTMENT OF PHILOSOPHY						
PHI 201-01	*Introduction to Philosophy*	(3)		9:45-11:15	Cook	ROWE 125
PHI 205-01	*Deductive Logic*	(3)		8:00- 9:30	Toenjes	ROWE 125
PHI 205-02	*Deductive Logic*	(3)		9:45-11:15	Fishman	WINN 208
PHI 205-03	*Deductive Logic*	(3)		11:30- 1:00	Cook	WINN 109
PHI 350S-01	*Topics,* Topic: Existentialism	(3)		11:30- 1:00	Toenjes	ROWE 125
DEPARTMENT OF PHYSICS						
PHY 102-N	*Introductory Physics II*	(4)		6:00- 7:30	Mayes	KNDY 107
PHY 102-LN	*Introductory Physics II Laboratory*	(0)	TWTh	7:40-10:20	Staff	KNDY 113
PHY 103-N	*Astronomy*	(4)		6:00- 7:30	Oberhofer	KNDY 120
PHY 103-LN	*Astronomy Laboratory*	(0)	TWTh	7:40-10:20	Staff	KNDY 119
PHY 231-N	*Electricity and Magnetism*	(3)		4:30- 6:00	Melton	SMTH 306
DEPARTMENT OF POLITICAL SCIENCE						
PSC 201-01	*Introduction to American Politics*	(3)		9:45-11:15	Brenner	BRND 102
PSC 301-01	*Political Socialization*	(3)		9:45-11:15	Fleitas	BRND 101

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
PSC 303-01	*Public Opinion and the Mass Media*	(3)		8:00- 9:30	Fleitas	BRND 101
PSC 313-01	*Judicial Behavior*	(3)		11:30- 1:00	Brenner	BRND 102
PSC 341-01	*Government and Politics of Western Europe*	(3)		11:30- 1:00	Kyle	BRND 101
PSC 347-01	*Government and Politics of Latin America*	(3)		9:45-11:15	Kyle	DEN 105
PSC 383-01	*Administrative Behavior*	(3)		8:00- 9:30	Bryant	DEN 105
PSC 383-02	*Administrative Behavior*	(3)		11:30- 1:00	Bryant	DEN 114
PSC 496-01	*Selected Topics in American Politics*	(3)	TBA	TBA	Staff	—
PSC 497-01	*Selected Topics in Comparative Politics*	(3)	TBA	TBA	Staff	—
PSC 499-01	*Selected Topics in Public Administration*	(3)	TBA	TBA	Staff	—
DEPARTMENT OF PSYCHOLOGY						
PSY 101-01	*General Psychology*	(3)		9:45-11:15	Maitland	WINN 207
PSY 101-L01	*General Psychology Lab*	(1)	MW	1:15- 4:00	Staff	WINN 102
PSY 202-01	*Educational Psychology*	(3)		8:00- 9:30	Puttick	WINN 101
PSY 303-01	*Social Psychology*	(3)		9:45-11:15	Long	WINN 101
PSY 310-01	*Comparative Psychology*	(3)		9:45-11:15	Grimsley	DEN 103
PSY 461-01	*History and Systems of Psychology*	(3)		11:30- 1:00	Grimsley	DEN 103
PSY 489-01	*Practicum in Applied Psychology*	(1)	TBA	TBA	Staff	—
PSY 489-02	*Practicum in Applied Psychology*	(2)	TBA	TBA	Staff	—
PSY 489-03	*Practicum in Applied Psychology*	(3)	TBA	TBA	Staff	—
PSY 489-04	*Practicum in Applied Psychology*	(4)	TBA	TBA	Staff	—
PSY 490-01	*Individual Research*	(1)	TBA	TBA	Staff	—
PSY 490-02	*Individual Research*	(2)	TBA	TBA	Staff	—
PSY 490-03	*Individual Research*	(3)	TBA	TBA	Staff	—
PSY 490-04	*Individual Research*	(4)	TBA	TBA	Staff	—
PSY 492-01	*Seminar in Social Psychology*	(3)		11:30- 1:00	Long	DEN 202
PSY 501-01	*Psychology of Exceptional Children*	(3)		8:00- 9:30	Diamant	WINN 109
PSY 504-01	*Tests and Measurements*	(3)		9:45-11:15	Windholz	WINN 205
PSY 505-01	*Advanced Personality Theory*	(3)		9:45-11:15	Diamant	WINN 109
DEPARTMENT OF RELIGIOUS STUDIES						
REL 202-01	*Origins of Christianity*	(3)		9:45-11:15	Witherspoon	ROWE 134
REL 202-02	*Origins of Christianity*	(3)		11:30- 1:00	Witherspoon	ROWE 134
REL 203-01	*Eastern Religions*	(3)		8:00- 9:30	Staff	ROWE 134
DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY						
SOC 151-01	*Introduction to Sociology I*	(3)		8:00- 9:30	Goodnight	MACY 201
SOC 210B-01	*Topics in Regional Ethnography* Topic: American Indians	(3)		9:45-11:15	Bonney	MACY 201
SOC 373-01	*Juvenile Delinquency*	(3)		8:00- 9:45	Michalowski	SMTH 204
SOC 456-01	*Seminar in Advanced Sociological Inquiry*	(3)		9:45-11:15	Rent	MACY 205
SOC 490A-01	*Topics in Sociology,* Topic: Sociological Measurement	(4)		9:45-11:15	Bertoli	MACY 204

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
SOC 490A-L01	*Topics in Sociology* Measurement Laboratory	(0)	T	8:00- 9:30	Bertoli	MACY 204
SOC 490A-L02	*Topics in Sociology* Measurement Laboratory	(0)	Th	8:00- 9:30	Bertoli	MACY 204
SOC 490C-01	*Topics in Sociology,* Topic: Adolescence and Youth	(3)		1:15- 2:45	Goodnight	MACY 204
SOC 490D-01	*Topics in Sociology,* Topic: The Sociology of Education	(3)		11:30- 1:00	Hayes	MACY 204
SOC 495-01	*Directed Individual Study*	(1)	TBA	TBA	Staff	—
SOC 495-02	*Directed Individual Study*	(2)	TBA	TBA	Staff	—
SOC 495-03	*Directed Individual Study*	(3)	TBA	TBA	Staff	—
SOC 495-04	*Directed Individual Study*	(4)	TBA	TBA	Staff	—

Short Session Calendar

June 17	Monday	Registration. First day of classes.
June 18	Tuesday	Last day to register.
June 19	Wednesday	Last day to withdraw from or drop a course with refund.
June 21	Friday	Last day to drop a course without grade evaluation.
June 22	Saturday	Scheduled class day.
June 29	Saturday	Scheduled class day.
July 1	Monday	Last day to drop a course.
July 3	Wednesday	Last day of classes and/or final examinations.

Short Session Class Schedule

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
DEPARTMENT OF GEOGRAPHY AND EARTH SCIENCES						
ES 651-01	*Workshop in Geology*	(4)	M-F	9:00-11:30 1:00- 4:00	Jarrell	SMTH 248
DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION						
PED 409-01	*Physical Education Laboratory*	(3)	M-F	8:30-12:30	Tillotson	PE 025
DEPARTMENT OF HUMAN DEVELOPMENT AND LEARNING						
Phase I. Explorations in Human Potential						
HDL 600B-1	*Explorations in Human Potential,* Topic: The Facilitation of Meaning	(3)		9:00-12:00	Antonelli	KNDY 120
Phase II. Meaning and Growth in Teaching/Learning Relationships						
HDL 625A-01	*Concepts of Teaching and Learning,* Topic: Integrated Studies	(3)		9:00-12:00	Parker	KNDY 207
Phase III. The Helping Relationship						
HDL 665A-01	*Analyzing and Developing Approaches to the Helping Relationships,* Topic: Person to Person Relationships	(3)		9:00-12:00	Chase	ATK 06
HDL 665B-01	*Analyzing and Developing Approaches to the Helping Relationships,* Topic: Group Process and Behavioral Change	(3)		9:00-12:00	Irons	SMTH 226
HDL 665D-01	*Analyzing and Developing Approaches to the Helping Relationships,* Topic: Supervision	(3)		9:00-12:00	Pleasants	SMTH 328
Phase IV. Experience and Commitment in Human Development and Learning						
HDL 570E-01	*Selected Topics in Human Development and Learning,* Topic: Newspaper-in-the-Classroom	(3)	M-F	9:00-12:30	Wilson	SMTH 348

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
HDL 570M-01	*Selected Topics in Human Development and Learning,* Topic: Growth: Infants and Early Years (Designed especially for child care personnel and kindergarten teachers)	(3)		9:00-12:00	Rowland	SMTH 331
HDL 570N-01	*Selected Topics in Human Development and Learning,* Topic: The Middle Years (Designed especially for middle school and junior high school teachers)	(3)		9:00-12:00	Smith	SMTH 345
DEPARTMENT OF MATHEMATICS						
MAT 104A-01	*Vector Geometry I*	(1)	M-F	9:45-11:15	Schell	BRND 108
DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY						
SOC 432-01	*Seminar in Contemporary American Family Systems*	(3)		9:45-12:45	Roberts	DEN 202
SOC 490B-01	*Topics in Sociology,* Topic: Semi-Cultural Anthropology	(3)		1:15- 4:15	Dubisch	MACY 201

Eight-Week Summer Session Calendar

June 17	Monday	Registration. Last day to register without a late penalty of $5.
June 18	Tuesday	Classes begin.
June 19	Wednesday	Last day to register or add a course.
June 21	Friday	Last day to withdraw from or drop a course with refund.
July 3	Wednesday	Last day to drop a course without grade evaluation.
July 4-5	Thursday-Friday	Holidays—No Classes.
August 6	Tuesday	Last day to drop a course.
August 9	Friday	Last day of classes.

Eight-Week Summer Session Final Examination Schedule*

If Class Meeting Time Is:	The Examination Will Be:
8:00	Monday, August 12, 8:00-11:00
9:45	Tuesday, August 13, 8:00-11:00
11:30	Monday, August 12, 12:30-3:30
1:10, 1:15, 2:00	Tuesday, August 13, 12:30-3:30
3:00	Monday, August 12, 6:00-9:00 p.m.
4:45, 6:00, 7:40	Tuesday, August 13, 6:00-9:00 p.m.

*Teachers who must report to work during a regular scheduled examination period may arrange with their instructors for an alternate examination time.

Eight-Week Summer Session Class Schedule

Course and Section No.		Sem Hrs	Days	Time	Instructor	Building and Room No.
DEPARTMENT OF BUSINESS ADMINISTRATION (courses for the M.S. in Management)						
MGT 611-N	*Economic Analysis I*	(3)	TTh	6:00- 8:10	Jorgensen	DEN 202
DEPARTMENT OF MATHEMATICS						
MAT 120-N	*Calculus*	(3)	MWTh	6:00- 7:30	Staff	BRND 105
MAT 122-N	*Elements of Statistics*	(3)	MWTh	6:00- 7:30	Malmgren	BRND 104
MAT 271-01	*Differential Equations*	(3)	MWF	8:00- 9:30	Lucas	BRND 106
MAT 322-01	*Probability and Statistics I*	(3)	MWF	11:30- 1:00	Malmgren	BRND 103
MAT 600-01	*Foundations of Mathematics*	(3)	MWF	9:45-11:15	Johnson	BRND 106
MAT 603-01	*Computer Techniques and Numerical Methods*	(3)	MWF	11:30- 1:00	Goodrum	BRND 106
MAT 606-01	*Topics in Algebra*	(3)	MWF	1:15- 2:45	Hedstrom	BRND 103

NOTES

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