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Bulletin & Centennial Catalog | 1982-1983 (August)

Jacksonville State University

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Jacksonville State University

Centennial Catalogue



1982 - 83

1883-1929

Jacksonville State Normal School

1929-1957

Jacksonville State Teachers College

1957-1966

Jacksonville State College

1966-

Jacksonville State University

About the Bulletin

This Bulletin carries an historical theme to mark the centennial celebration of Jacksonville State University. The entire Bulletin of the first session is reproduced to illustrate the vast changes and growth which have occurred during the last 100 years. Photographs used are from the State Normal School years (1883-1929). With the exception of the picture of Hames Hall and the institution's nine presidents (located inside the back cover), the photographs were taken by Russell Brothers Photography of Anniston.

History of Jacksonville State University

On February 22, 1883, the Alabama Legislature created the Jacksonville State Normal School as a two-year college for elementary teacher training. The college was located in a small two-story brick building which had previously housed a private male academy, Grange College, and Calhoun College. The Jacksonville Elementary School now occupies this site. In 1900 the college moved to downtown Jacksonville and occupied the vacated Calhoun County Courthouse building.

By 1908, the college had outgrown its quarters again, so the institution moved back to its original location which had been renovated, expanded, and named Hames Hall. Two dormitories were also constructed.

In 1927 a large appropriation from the Legislature insured the continued existence of the institution. Construction was begun on Bibb Graves Hall and Daugette Dormitory which became the nucleus of the present campus.

In 1929 the institution was promoted to a four year State Teachers College offering the baccalaureate degree. As the college grew, a diversified curriculum began to attract students majoring in fields other than education. By 1957 the institution had progressed to the point where the Legislature changed the name to Jacksonville State College. A masters degree program was initiated with the first master of science in education degrees being awarded in 1959.

Rapid growth through the next few years led the Legislature to elevate the college to Jacksonville State University on November 22, 1966.

CENTENNIAL COMMITTEE

Dr. John Stewart, Chairman

Dr. Ralph Brannen

Mr. Jerry Cole

Mr. Jack Hopper

Mr. Larry Smith

Dr. Shelby Starling

Mr. Marc Angle, SGA

Mr. Bill Morris, SGA

CATALOGUE

OF THE

OFFICERS AND PUPILS

OF THE

State Normal School

AT

JACKSONVILLE, ALABAMA.

FIRST SESSION, 1883-1884.

HOUSTON COLE LIBRARY
JACKSONVILLE STATE UNIVERSITY
JACKSONVILLE, AL 36265

BOARD OF DIRECTORS.

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Jacksonville, Ala.

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FACULTY.

JAMES G. RYALS, JR., M. A. (Univ. Va.), PRESIDENT,
Normal Studies and Foreign Languages.

PROF. W. J. BORDEN,
Mathematics.

MISS ELIZA A. BOWEN,
English Branches.

MRS. IDA J. WOODWARD,
Primary Department.

PUBLIC CLOSING EXERCISES, 1884.

MONDAY, JUNE 16.—Primary Department.

TUESDAY, JUNE 17.—English Branches.

WEDNESDAY, JUNE 18.—Mathematics.

THURSDAY, JUNE 19.—Normal Studies and Foreign Languages.

THURSDAY EVENING.—Final Celebration of the Calhoun Literary Society.

FRIDAY, JUNE 20.—Address by Hon. S. K. McSpadden.

FRIDAY EVENING.—Entertainment by the Young Ladies' of the School.

CATALOGUE OF PUPILS.

First Session—1883-1884.

NAME.	POST OFFICE.	CLASS.
ACKER, W. H.	Lincoln, Ala.	Junior
ADAMS, CLARA	Jacksonville, Ala.	No. 2
ADAMS, CLIFFORD	Jacksonville, Ala.	B, Primary
ADAMS, JESSIE	Jacksonville, Ala.	No. 1
ALEXANDER, JOHNNIE	Jacksonville, Ala.	B, Primary
duALEXANDER, MAMIE	Gadsden, Ala.	No. 2
ANDERSON, EMMA	Coldwater, Ala.	No. 1
ARNOLD, CHARLES N.	Jacksonville, Ala.	No. 2
ARNOLD, IDA	Jacksonville, Ala.	No. 3
ARNOLD, JOS. J.	Jacksonville, Ala.	No. 1
ARNOLD, LIZZIE	Jacksonville, Ala.	No. 3
AYER, W. F. , JR.	Rome, Ga.	Senior
BAGLEY, OSCAR W.	Oxford, Ala.	No. 2
BEAL, WILLIE	Jacksonville, Ala.	D, Primary
BORDEN, BENNIE	Jacksonville, Ala.	No. 3
BORDEN, ERMA	Jacksonville, Ala.	No. 1
BORDEN, NANNIE	Jacksonville, Ala.	Normal
BRENNAN, LIZZIE	Jacksonville, Ala.	No. 1
BROUGHTON, JAS. B.	Jacksonville, Ala.	No. 2
BUCKELEW, FRED W.	DeArmanville, Ala.	No. 1
BUCKELEW, JUDGE C.	DeArmanville, Ala.	No. 2
BUCKELEW, OLIVE	DeArmanville, Ala.	Normal
BUCKELEW, RUBY	DeArmanville, Ala.	B, Primary
CALDWELL, MARY GREER	Jacksonville, Ala.	C, Primary
CLARK, IDA	Jacksonville, Ala.	Normal
CLARK, MAMIE	Jacksonville, Ala.	No. 3
CLARK, NATHAN	Jacksonville, Ala.	B, Primary
CLARK, RAGAN	Jacksonville, Ala.	B, Primary
CLARK, WILLIE H.	Jacksonville, Ala.	No. 3
COBB, MINNIE	Gadsden, Ala.	No. 2
CRAWFORD, FRANK P.	Jacksonville, Ala.	No. 1
CROOK, FLOURNOY	Jacksonville, Ala.	Junior
CROOK, HANNAH	Jacksonville, Ala.	No. 2
CROOK, REYNOLDS	Jacksonville, Ala.	B, Primary
CROOK, S. W. JR.	Alexandria, Ala.	Junior

NAME.	POST OFFICE.	CLASS.
CROOK, WILLIE B.	Jacksonville, Ala.	No. 3
CROSS, MINNIE	Jacksonville, Ala.	No. 2
CROW, CORA	Jacksonville, Ala.	No. 3
CROW, FANNIE	Jacksonville, Ala.	Normal
CROW, GEORGE	Jacksonville, Ala.	D, Primary
CROW, MAMIE	Jacksonville, Ala.	No. 2
DAVENPORT, ALMA	Jacksonville, Ala.	No. 2
DAVENPORT, ANNIE EDNA	Jacksonville, Ala.	D, Primary
DAVENPORT, CLARENCE	Jacksonville, Ala.	Normal
DAVENPORT, CORA	Jacksonville, Ala.	No. 2
DAVENPORT, MAUD	Jacksonville, Ala.	No. 1
DAVIS, DIXIE	Davisville, Ala.	No. 2
DEAN, SAM'L. C.	Alexandria, Ala.	No. 3
DE ARMAN, ALICE	De Armanville, Ala.	B, Primary
DE ARMAN, ARTHUR	De Armanville, Ala.	C, Primary
DE ARMAN, OSCAR E.	Jacksonville, Ala.	No. 3
DE ARMAN, STACY	De Armanville, Ala.	A, Primary
DRISKILL, CORA LEE	Jacksonville, Ala.	C, Primary
DRISKILL, EDWARD W.	Jacksonville, Ala.	Normal
DRISKILL, KATIE	Jacksonville, Ala.	No. 3
DRISKILL, LIZZIE	Jacksonville, Ala.	Normal
DRISKILL, SLATER MAURICE	Jacksonville, Ala.	D, Primary
EASTERWOOD, ENIR	Alexandria, Ala.	No. 1
ERWIN, MARTINEY	Jacksonville, Ala.	No. 3
FARMER, HENRY LEE	Jacksonville, Ala.	No. 1
FARMER, JAMES B.	Jacksonville, Ala.	No. 2
FITZ, ALICE	Jacksonville, Ala.	No. 3
FITZ, HENRY	Jacksonville, Ala.	B, Primary
FITZ, LAWSON A.	Jacksonville, Ala.	No. 3
FORNEY, CARY	Jacksonville, Ala.	B, Primary
FORNEY, IDA	Jacksonville, Ala.	Senior
FORNEY, JOHN C.	Jacksonville, Ala.	No. 3
FRANK, BENNIE	Jacksonville, Ala.	No. 2
FRANK, MAMIE	Jacksonville, Ala.	No. 1
GIDLEY, JAS. L.	Jacksonville, Ala.	No. 2
GIDLEY, MONROE	Jacksonville, Ala.	D, Primary
GIDLEY, RICHARD	Jacksonville, Ala.	A, Primary
GIDLEY, THOS. G.	Jacksonville, Ala.	No. 2
GIDLEY, WALTER	Jacksonville, Ala.	D, Primary
GILES, HATTIE	Jacksonville, Ala.	C, Primary
GILES, JANE	Jacksonville, Ala.	C, Primary
GLASER, EDDIE C.	Germania, Ala.	No. 2

NAME.	POST OFFICE.	CLASS.
GLASER, JULIA	Germania, Ala.	No. 2
GLASER, VAUGHAN	Germania, Ala.	No. 2
GOODLETT, EMMA	Jacksonville, Ala.	B, Primary
GREEN, ANNA LEE	Jacksonville, Ala.	D, Primary
GREER, G. AUTRY	Davisville, Ala.	No. 3
HAMES, EXA	Jacksonville, Ala.	D, Primary
HAMES, JIMMIE	Jacksonville, Ala.	B, Primary
HAMES, JOHNNIE	Jacksonville, Ala.	B, Primary
HAMES, L. G.	Jacksonville, Ala.	Normal
HAMES, LIZZIE	Jacksonville, Ala.	No. 1
HAMMOND, ADDIE	Jacksonville, Ala.	Normal
HAMMOND, FANNIE	Jacksonville, Ala.	No. 3
HAMMOND, KATIE	Jacksonville, Ala.	D, Primary
HAMMOND, PETER L.	Jacksonville, Ala.	No. 1
HAMMOND, SAM'L. E.	Jacksonville, Ala.	No. 2
HARPER, JOHN LEE	Jacksonville, Ala.	No. 3
HENDERSON, JNO. FLOYD	Jacksonville, Ala.	No. 2
HENDERSON, MAMIE	Jacksonville, Ala.	No. 2
HENDERSON, SUNIE MAY	Jacksonville, Ala.	B, Primary
HENDERSON, WILLIE F.	Sulphur Springs, Ala.	No. 2
HILL, TEMPLETON	Jacksonville, Ala.	B, Primary
HOLMESLY, AMANDA	Jacksonville, Ala.	D, Primary
HOLMESLY, JIMMIE	Jacksonville, Ala.	A, Primary
HOLMESLY, JOHNNIE	Jacksonville, Ala.	C, Primary
HOLMESLY, LEE MARTIN	Jacksonville, Ala.	No. 3
HUTCHINSON, FRANK	Jacksonville, Ala.	D, Primary
HUTCHINSON, JOS. PAUL	Jacksonville, Ala.	No. 3
HUTCHINSON, WILLIE	Jacksonville, Ala.	Normal
HYATT, NANNIE	Jacksonville, Ala.	D, Primary
JOHNSON, WILLIE OSSIE	Jacksonville, Ala.	No. 3
JONES, D.	Warrior Station, Ala.	No. 1
JONES, MATTIE	Oxford, Ala.	Normal
JONES, WALTER LEE	Jacksonville, Ala.	Normal
KAUFMAN, ALICE	Jacksonville, Ala.	A, Primary
KAUFMAN, LULA	Jacksonville, Ala.	A, Primary
KAUFMAN, WILLIE	Jacksonville, Ala.	C, Primary
KING, PAUL	Jacksonville, Ala.	No. 1
KIRK, ANNA	White Plains, Ala.	No. 2
KIRK, NORA	White Plains, Ala.	D, Primary
LANDERS, SUDIE	Jacksonville, Ala.	A, Primary
LANDERS, WILLIE	Jacksonville, Ala.	C, Primary
LINDER, MATTIE	Jacksonville, Ala.	Normal

NAME.	POST OFFICE.	CLASS.
MARTIN, WOODSON	Jacksonville, Ala.	B, Primary
MATTHEWS, LENNA	Jacksonville, Ala.	No. 3
MATTHEWS, WHITT	Jacksonville, Ala.	A, Primary
MATTISON, CHESTER	Jacksonville, Ala.	No. 3
MATTISON, JAS. E.	Oxford, Ala.	Junior
MATTISON, LOU E.	Jacksonville, Ala.	Normal
MCCLURKIN, JOSEPH	Oxford, Ala.	No. 2
MCCLUSKEY, ALMA	Jacksonville, Ala.	C, Primary
MCCLUSKEY, EDNA	Jacksonville, Ala.	A, Primary
MCCLUSKEY, FANNIE	Jacksonville, Ala.	D, Primary
McCORMICK, ALICE	Jacksonville, Ala.	A, Primary
McCORMICK, EDDIE	Jacksonville, Ala.	A, Primary
McCORMICK, WILLIE	Jacksonville, Ala.	C, Primary
McCRAW, NEWTON	Alpine, Ala.	No. 2
McGINNIS, CHARLIE	Jacksonville, Ala.	B, Primary
McGINNIS, FLETCHER	Jacksonville, Ala.	B, Primary
McGINNIS, LAWSON C.	Jacksonville, Ala.	No. 3
McGINNIS, VARD A.	Jacksonville, Ala.	No. 3
MCLIN, ANNIE	Holden, Mo.	A, Primary
MEEKS, ALFRED M.	Jacksonville, Ala.	No. 3
MONTGOMERY, BESSIE	Jacksonville, Ala.	No. 3
MONTGOMERY, FLOY	Jacksonville, Ala.	B, Primary
MORAGNE, JOS. H.	Jacksonville, Ala.	No. 1
MORGAN, C. KENDALL	Jacksonville, Ala.	Junior
MORGAN, GEO. C., JR.	Jacksonville, Ala.	No. 2
MORGAN, KITTIE	Jacksonville, Ala.	A, Primary
NABORS, FRENCH, JR.	Montevallo, Ala.	No. 2
NESBIT, DEMPSEY R.	Jacksonville, Ala.	No. 2
NISBET, EDDIE J.	Jacksonville, Ala.	No. 1
NISBET, LILA	Jacksonville, Ala.	No. 1
NISBET, LULA	Jacksonville, Ala.	No. 1
NISBET, NANNIE	Jacksonville, Ala.	No. 3
NISBET, THERESA	Jacksonville, Ala.	No. 3
NISBET, THOS.	Jacksonville, Ala.	No. 3
NISBET, WILLIE	Jacksonville, Ala.	No. 2
NUNNELLY, ADDIE	Jacksonville, Ala.	A, Primary
NUNNELLY, THOS.	Jacksonville, Ala.	B, Primary
PETTIT, MARION C.	Peek's Hill, Ala.	Normal
PETTIT, MATTIE	Peek's Hill, Ala.	No. 1
PRITCHETT, MAMIE	Jacksonville, Ala.	Normal
RAGAN, THOS.	Renfroe, Ala.	Senior
RAMAGNANO, MARY	Jacksonville, Ala.	A, Primary

NAME.	POST OFFICE.	CLASS.
RANDALL, RUTH	Decatur, Ga.	No. 3
RILEY, ELSIE	Jacksonville, Ala.	No. 3
RILEY, JNO. F.	Jacksonville, Ala.	No. 2
ROBERTS, SAM'L. D.	Maple Grove, Ala.	No. 1
ROSS, NANNIE SUE	Jacksonville, Ala.	D, Primary
ROWAN, SLOAN	Jacksonville, Ala.	Junior
RYALS, ROBERT LEE	Cartersville, Ga.	Senior
SCOTT, HENRY S.	Jacksonville, Ala.	No. 2
SCOTT, JNO. ROBERT	Jacksonville, Ala.	No. 3
SCOTT, WALTER J.	Jacksonville, Ala.	No. 1
SCOTT, WM. W.	Jacksonville, Ala.	No. 1
SELLERS, CHARLIE	Jacksonville, Ala.	No. 3
SELLERS, GERTRUDE	Jacksonville, Ala.	No. 3
SELLERS, MATTIE	Jacksonville, Ala.	D, Primary
SELLERS, MINNIE	Jacksonville, Ala.	No. 3
SELLERS, TENIE	Jacksonville, Ala.	Normal
SEWELL, MOSIE	Jacksonville, Ala.	A, Primary
SKELTON, ARTHUR	Jacksonville, Ala.	A, Primary
SKELTON, WM. TRUMAN	Jacksonville, Ala.	No. 2
SMITH, ESTHER	Oxford, Ala.	B, Primary
SMITH, HERBERT	Jacksonville, Ala.	No. 2
*SMITH, IRENE	Jacksonville, Ala.	No. 3
SMYLY, ADONIRAM J.	Jacksonville, Ala.	No. 1
SMYLY, EUCLID	Jacksonville, Ala.	No. 2
SMYLY, FRANK A.	Jacksonville, Ala.	Normal
SMYLY, PEARLIE	Jacksonville, Ala.	No. 3
STEVENSON, ANNIE	Jacksonville, Ala.	A, Primary
STEVENSON, FORNEY C.	Jacksonville, Ala.	No. 3
STEVENSON, LORAIN	Jacksonville, Ala.	C, Primary
STEVENSON, MACON A.	Jacksonville, Ala.	Junior
STOCKDALE, WILLIE	Jacksonville, Ala.	No. 2
SUTTON, JIMMIE T.	Jacksonville, Ala.	No. 3
SWAN, FANNIE LEE	Jacksonville, Ala.	A, Primary
SWAN, LIZZIE	Jacksonville, Ala.	Normal
SWAN, MATTIE	Jacksonville, Ala.	No. 2
TUMLIN, HATTIE	Davisville, Ala.	No. 2
VANSANDT, SALLIE	Jacksonville, Ala.	No. 3
WAKELY, Q.	Germania, Ala.	B, Primary

* Died Nov. 3d, 1883.

JACKSONVILLE, ALABAMA

NAME.	POST OFFICE.	CLASS.
WALKER, ANNIE	Jacksonville, Ala.	No. 3
WARD, CHAS. P.	Jacksonville, Ala.	No. 3
WARD, EMMA	Jacksonville, Ala.	A, Primary
WARD, JACK	Jacksonville, Ala.	B, Primary
WARD, MARY	Jacksonville, Ala.	A, Primary
WARLICK, GEO. HOKE	Jacksonville, Ala.	D, Primary
WATSON, CARRIE	Jacksonville, Ala.	A, Primary
WATSON, HARVEY	Jacksonville, Ala.	D, Primary
WATSON, JOHNNIE	Jenkins P. O., Ala	No. 1
WEAVER, ANDREW	Jacksonville, Ala.	No. 2
WEAVER, AVERY	Jacksonville, Ala.	A, Primary
WEAVER, LIZZIE	Jacksonville, Ala.	Normal
WEAVER, MARY	Jacksonville, Ala.	No. 1
WEAVER, MATTIE R.	Jacksonville, Ala.	Normal
WEAVER, MOLLIE	Jacksonville, Ala.	No. 2
WEAVER, VIRGIL	Jacksonville, Ala.	B, Primary
WHATLEY, LEE	Jacksonville, Ala.	No. 3
WHISENANT, ERNEST S.	Jacksonville, Ala.	No. 2
WHISENANT, IOLA	Jacksonville, Ala.	No. 2
WHISENANT, LUCIE	Jacksonville, Ala.	C, Primary
WHISENANT, PETER F.	Bayport, Fla.	No. 3
WHISENANT, ROSS G.	Jacksonville, Ala.	No. 3
WILKERSON, CHARLIE	Jacksonville, Ala.	C, Primary
WILKERSON, WILLIE	Jacksonville, Ala.	A, Primary
WILLIAMS, AUGUSTUS	Jacksonville, Ala.	D, Primary
WILLIAMS, FORNEY	Jacksonville, Ala.	C, Primary
WILLIAMS, NANNIE	Jacksonville, Ala.	Normal
WILLIAMS, THOS. R.	Jacksonville, Ala.	No. 3
WILSON, ALLIE	Cross Plains, Ala.	Normal
WILSON, HATTIE	Jacksonville, Ala.	D, Primary
WILSON, JOS. H.	Cross Plains, Ala.	No. 3
WOODALL, ARTHUR	Jacksonville, Ala.	A, Primary
WOODALL, WALTER	Jacksonville, Ala.	C, Primary
WOODALL, LILLIE	Germania, Ala.	No. 3
WOODRUFF, CHIVES J.	Jacksonville, Ala.	No. 3
WOODRUFF, LILLIE	Jacksonville, Ala.	No. 2
WOODRUFF, LUCY	Jacksonville, Ala.	A, Primary
WOODRUFF, MAGGIE	Jacksonville, Ala.	A, Primary
WOODRUFF, NORRIS	Jacksonville, Ala.	No. 1
WOODS, CHAS. B. H.	Jacksonville, Ala.	Normal
WOODS, FRANCIS	Jacksonville, Ala.	No. 1
WOODWARD, BESSIE	Jacksonville, Ala.	No. 3

NAME.	POST OFFICE.	CLASS.
WOODWARD, EDWARD G.	Jacksonville, Ala.	Junior
WOODWARD, IDA	Jacksonville, Ala.	B, Primary
WOODWARD, WILLIE	Jacksonville, Ala.	No. 3
WYLY, IDA	Jacksonville, Ala.	No. 2
WYLY, JENNIE	Jacksonville, Ala.	C, Primary
WYLY, SAMUEL	Jacksonville, Ala.	A, Primary

SUMMARY.

Number in Primary Department	87
Number in Intermediate Department	96
Number in Collegiate Department	64
Sum total	247
Number of Normal Pupils	25



This group of State Normal School football players pauses for their picture to be taken sometime during the early 1900's. What appear to be necklaces on several players were actually noseguards.

COURSE OF STUDY.

I.—Primary Department.**CLASS D.**

Object Lessons; Oral Teaching; Chart; Writing and Drawing.

CLASS C.

Object Lessons; Oral Teaching; Orthography; Reading; Writing and Drawing.

CLASS B.

Object Lessons; Lessons in Numbers; Geography; Language; Orthography; Reading; Writing and Drawing.

CLASS A.

Object Lessons; Language Lessons; Arithmetic; Geography; Reading; Spelling; Writing and Drawing.

II.—Intermediate Department.**CLASS No. 3.**

Spelling; Reading; Writing and Drawing; Rudiments of Arithmetic; Elementary Geography; English Composition.

CLASS No. 2.

Spelling; Reading; Writing; Mental and Practical Arithmetic; English Grammar and Composition; Geography and Map Drawing.

III.—Collegiate Department**CLASS No. 1.**

Spelling; Reading; Writing; Mental and Practical Arithmetic; English Grammar and Composition; Physical Geography.

JUNIOR CLASS.

History of the United States; English Composition and Rhetoric; Elementary Algebra; Latin, and German and French optional.

SENIOR CLASS.

English Composition; University Algebra; Geometry; Trigonometry; Latin; Greek; French and German optional.

Normal Professional Course.

[Carried on concurrently with Academic Studies.]

FIRST YEAR.

School Management; Physiology and Hygiene.

SECOND YEAR.

Methods of Instruction; Logic.

THIRD YEAR.

Pedagogic Psychology; Ethics.

At present, the grading is rigorous up to Class No. 3. Beyond that, pupils are classed in the catalogue according to their more advanced studies.

Primary Department.

MRS. IDA J. WOODWARD.

Particular care is given to the work of training the children to *think*; that being the important part of all good teaching. The word-method is largely employed in teaching reading. The oral and written methods are combined in teaching Orthography. Such methods are employed as will best develop and train the faculties of perception, and memory, and invention.

This Department serves as a Model and Training School for the Normal Pupils. Hence, the object will be to employ the most improved and excellent methods in the most thorough and satisfactory way. In practical importance, and as a field for the display of ability and skill in teaching, the primary grades are unrivalled. Special attention will, therefore, be bestowed upon this department.

English Branches.

Miss E. A. BOWEN.

The most important work of the common schools of Alabama for many years must consist in training her whole people to speak and write the English of her educated classes. In the personal education of the Normal Pupils, and their training to teach, special attention will be paid to this. The first year's work has given the teacher in charge of the English Branches a clear understanding of the problem, and a plan has been matured skillfully adapted to the necessities of the case.

The objects in view will be three. First: A careful, patient education in speaking the language correctly. Many studies besides grammar will be made tributary to this by requiring in them clear, distinct topical recitation.

Second: The constant, careful training in the writing of English will also be carried on in many directions besides that of the stated compositions. Frequent written examinations in other studies will also serve this purpose.

Third: There will be an effort to cultivate a taste for good reading. The teachers of the country should be in sympathy with its living thinkers and writers; and a strong effort will be made to create a spirit of progress in intelligence that shall end only with life.

Mathematics.

PROF. W. J. BORDEN.

A high estimate is placed upon the mathematics as a means of education and a rigorous mental discipline. To secure the best results from its use, great care is taken that the pupil may be guarded against the unintelligent acquisition of forms. The attention must be thoroughly roused, and the reasoning powers brought into vigorous action, that the understanding may be cultivated, and the mind trained to close, critical, investigation, and coherent, consecutive thinking. Neatness and clearness in expression, adequacy in explanation, and luminous logical arrangement, are insisted upon, in oral analysis, and elsewhere.

Normal Studies and Foreign Languages.

PROF. JAMES G. RYALS, JR.

The Principles and Methods of Teaching, regarded as a science and a profession, will be thoroughly inculcated. The pupils will be made familiar with the truths and rules thus acquired, by observing their daily application, and by actually carrying them into effect, under the criticism and training of the teacher. This Normal work is, of course, the great purpose of the school.

In the Normal Class, as in the school generally, great importance will be attached to written work. Promotion will largely depend upon it. The papers of the Normal Pupils will be carefully graded, and the standard of excellence rigorously applied.

Latin and Greek, French and German, will be taught to those who desire to prosecute these branches. Here, the most improved and natural methods of instruction will be by preference employed.

Music and Calisthenics.

It is intended to perfect plans for having Vocal Music and Calisthenics taught throughout the school. Instrumental Music will be taught as an extra.

Calhoun Literary Society.

The young men have organized a society, called the Calhoun Literary Society, which, as furnishing opportunity for a training of inestimable value, is heartily commended by the Faculty.

Regulations.

Upon first entering the school, a pupil will be examined in a general way, to ascertain his advancement, that he may be judiciously classed. But, Normal Pupils, to secure admission, must be at least fifteen years of age; must pass satisfactory examinations in spelling, reading, writing,

grammar, history of the United States, geography, and arithmetic; and must sign a promise to teach at least two years in the public schools of the State or pay the tuition due.

Piety will be encouraged, and high moral sentiment fostered, among the pupils. The discipline of the school will be kind but firm. Orderly behavior, prompt discharge of duty, and implicit obedience to lawful authority, will be constantly required of every pupil. It will be sought to create and promote a healthy public sentiment among the pupils.

General Information.

The location of the School, in the mountains of northeast Alabama, is all that could be desired for healthfulness and beauty. Jacksonville is easily accessible by rail; is in the midst of a county which enforces prohibition of the liquor traffic; and is noted for the piety and social refinement of its citizens.

Board may be readily secured at low rates (ten to fifteen dollars per month) in private families.

Rates of Tuition.

Normal Class	Free.
Primary Department75 per month.
Intermediate Department	\$1.50 per month.

Collegiate Department.

Junior Class	\$2.00 per month.
Senior Class	3.00 per month.
Incidental fee for Normal pupils, \$5.00 per term of 10 months, payable in advance.	

All tuitions payable quarterly in advance.

The next session is to begin on Monday, September 1st, 1884.

1917 Student Regulations

1. *Girls may receive young men once per week only, and that on Sunday afternoon and night till ten o'clock.*
2. *No driving, riding or walking with young men except in parties and with chaperons approved by the president. Young men and young ladies may walk from the churches and Christian Associations together to their homes on Sundays, but no where else and at no other time.*
3. *Young ladies must not loiter at the post office, in the stores, or on the street.*
4. *Girls must not remain out too late; they should be in their homes before dark.*
5. *No going out during the week days to anything without the permission of the president, except to prayer meetings, and then only when the boarding house keeper shall take her girls — this means they shall not go or return with young men.*
6. *Girls must not leave town without permission from the president, unless it be under the care of the matron.*
7. *Proper dignity and behavior are required upon all occasions.*

* * * *

Boarding house keepers are expected to see that these rules are obeyed, and when any young lady acts in such a way as to cause concern and anxiety it should be reported to the president privately.

*C. W. Daugette
President*

CATALOGUE
of
Jacksonville
State University
Jacksonville, Alabama

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AND SCHOOLS

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THE AMERICAN COUNCIL ON EDUCATION

THE AMERICAN ASSEMBLY OF COLLEGIATE
SCHOOLS OF BUSINESS

THE COUNCIL OF BACCALAUREATE AND HIGHER DEGREE
PROGRAMS OF THE NATIONAL LEAGUE FOR NURSING

CATALOGUE
1982-1983

One Hundredth Year

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1982

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CALENDAR FOR 1982

UNIVERSITY CALENDAR

FALL SEMESTER 1982-83

- Wed., August 25** Faculty returns/Advisement begins
Dormitories open for occupancy at 10:00* a.m.
First university faculty meeting at 7:30 p.m.
Theron E. Montgomery Building Auditorium.
- Thurs., Fri.,
August 26, 27** Registration and orientation for freshmen, transfer students and those students not already registered.
- Mon., August 30** Classes commencing at 7:30 a.m. Late registration fee charged.
- Fri., September 3** Last day for registration and addition of courses to schedule.
- Mon., September 6** Holiday — Labor Day.
- Thurs., September 23** Last day for dropping courses without academic penalty.
- Wed., October 20** Midterm grades due.
- Sat., October 30** Homecoming game.
- Thurs., November 11** Holiday — Veterans' Day.
- Thurs., Fri.,
November 25, 26** Thanksgiving holidays.
- Mon., November 29** Resumption of classes at 7:30 a.m.
- Wed. thru Wed.,
December 8-15** Semester examinations.
- Wed., December 15** Filing of semester grades for graduating students by 1:15 p.m.
- Thurs., December 16** Filing of all semester grades within twenty-four hours after the last scheduled semester examinations.
- Friday, December 17** Commencement.

1983

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CALENDAR FOR 1983

UNIVERSITY CALENDAR

SPRING SEMESTER 1983

- Wed., January 5** Faculty returns/Advisement begins
Reopening of dormitories for occupancy at 10:00 a.m.*
- Thurs., Fri.,
January 6, 7** Registration (for those students not pre-registered).
- Mon., January 10** Classes commencing at 7:30 a.m. Late registration fee charged.
- Fri., January 14** Last day for registration and addition of courses to schedule.
- Fri., February 4** Last day for dropping courses without academic penalty.
- Tues., February 22** One Hundredth Birthday 1883-1983.
- Wed., March 2** Midterm grades due.
- Fri., March 11** Spring holidays beginning at 5:30 p.m.*
- Mon., March 21** Classes resume at 7:30 a.m.
- Wed. thru Wed.,
April 20-27** Semester examinations.
- Wed., April 27** Filing of semester grades for graduating students by 1:15 p.m.
- Thurs., April 28** Filing of all semester grades within twenty-four hours after the last scheduled semester examination.
- Fri., April 29** Commencement.

MINIMESTER 1983

(Classes meet Monday through Friday)

- Mon., May 2** Faculty returns/Advisement begins
Reopening of dormitories for occupancy, 2:00 p.m.*
- Tues., May 3** Registration (for those students not pre-registered).
- Wed., May 4** Classes commencing at 7:30 a.m. Late registration fee charged.
- Thurs., May 5** Last day for registration and addition of courses to schedule.
- Tues., May 10** Last day for dropping courses without academic penalty.
- Tues., May 31** Semester examinations.
- Wed., June 1** Filing of all grades within twenty-four hours after the last scheduled semester examination.

SUMMER SEMESTER 1983 - UNDERGRADUATE

(Classes meet Monday through Friday)

Wed., June 8	Faculty returns/Advisement begins.
Thurs., June 9	Reopening of dormitories for occupancy, 10:00 a.m.* Registration and orientation for beginning students and for those students not already pre-registered.
Fri., June 10	Classes commencing at 7:30 a.m.
Mon., June 13	Last day for registration and addition of courses.
Fri., June 17	Last day for dropping courses without academic penalty.
Mon., July 4	Holiday.
Fri., July 8	Semester examinations.
Mon., July 11	Filing of all semester grades by 10:00 a.m.

SUMMER SEMESTER II 1983 - UNDERGRADUATE

(Classes meet Monday through Friday)

Mon., July 11	Faculty returns/Advisement begins.
Tues., July 12	Registration (for those students not pre-registered).
Wed., July 13	Classes commencing at 7:30 a.m.
Thurs., July 14	Last day for registration and addition of courses.
Tues., July 19	Last day for dropping courses without academic penalty.
Tues., August 9	Semester examinations.
Wed., August 10	Filing of all semester grades by 1:15 p.m.
Fri., August 12	Commencement.

SUMMER SEMESTER I 1983 - GRADUATE

Wed., June 8	Faculty returns/Advisement begins.
Thurs., June 9	Reopening of dormitories for occupancy, 10:00 a.m.*
Fri., June 10	Registration (for those students not pre-registered). Classes commencing at 7:30 a.m. Classes meet Monday through Thursday as well as Friday, June 17 and Friday, July 1.
Mon., June 13	Last day for registration and addition of courses.
Fri., June 17	Last day for dropping courses without academic penalty.
Mon., July 4	Holiday.
Fri., July 8	Semester examinations.
Mon., July 11	Filing of all semester grades by 10:00 a.m.

SUMMER SEMESTER II 1983 - GRADUATE

Mon., July 11	Faculty returns/Advisement begins.
Tues., July 12	Registration (for those students not pre-registered).
Wed., July 13	Classes commencing at 7:30 a.m. Classes meet Monday through Thursday as well as Friday, July 15 and Friday, July 29.
Thurs., July 14	Last day for registration and addition of courses.
Tues., July 19	Last day for dropping courses without academic penalty.
Tues., August 9	Semester examinations.
Wed., August 10	Filing of all semester grades by 1:15 p.m.
Fri., August 12	Commencement.

*The last meal before holidays will be served in the University dining room at noon on the last day of dismissal for holidays. The first meal after holidays, vacations, or other recesses will be served at breakfast on the day when college activities recommence. One meal will be served in the dining room following the last of the semester examinations at the end of each semester. The University reserves the right to close the dormitories and the dining room between periods of registration and during all holidays, vacations, and other recesses.

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MRS. C. T. FITZPATRICK	Montgomery	Second	1987
PAUL CARPENTER	Ashford	Third	1983
BOBBY N. KENNAMER	Jacksonville	Fourth	1991
CHARLES T. MATHEWS	Ashland	Fourth	1991
MRS. MADGE POOLE	Tuscaloosa	Fifth	1983
GRAVES MUSGROVE	Birmingham	Sixth	1983
C. W. DAUGETTE	Gadsden	Seventh	1987
JAMES D. THORNTON	Huntsville	Eighth	1991

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* As constituted in 1966

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TO BE NAMED *Director of Development*
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FRANCIS CHARLES FARRELL	<i>Admissions Clerk</i>
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MIRIAM HIGGINBOTHAM	<i>Dean of Women</i>
MAYBELL GARDNER	<i>Secretary</i>
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JOY BRINDLE	<i>Secretary, SGA</i>

UNIVERSITY POLICE

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 CHARLES BRINDLE *Police Sergeant*
 GREG DEMPSEY *Police Officer*
 JEFFREY KING *Police Officer*
 JOHN MARQUIS *Police Officer*
 JOHN MAURER *Police Officer*
 ARNER McDANIEL *Police Officer*
 CURTIS ROBERTS *Police Officer*
 DENNIS PARKER *Police Officer*
 STAN PORTER *Police Officer*
 VIRGINIA SARTAIN *Secretary*
 JESSIE WILLIAMS *Police Officer*
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 MARY HOLDER *Nurse*

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CHARLES NUNN *Superintendent of City Schools*

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1982-83

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- BROWN, THOMAS L. (1974) Ph. D., The University of Mississippi
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- BRUER, THOMAS F. (1972) Ph. D., The University of Tennessee
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- McCOOL, EARL CLAYTON (1960) M.Ed., University of Oklahoma
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- McKAY, MITCHELL (1977) M.S., University of Georgia
Director of Laboratory High School
- McMILLAN, MARY EVELYN (1963) Ph.D., University of Alabama
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- McSPADDEN, CLYDE J. (1961) M.A., Peabody College for Teachers
Assistant Professor of Science

- MACRAE, ROBERT A. (1967) M.S., Vanderbilt University
Assistant Professor of Physics
- MAGAW, MILO E. (1961) Ph.D., Vanderbilt University
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- STEWART, JOHN R. (1964) M.A., University of Alabama; LL.D., Jacksonville State University
Director of International House
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Assistant Professor of Instructional Media
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- SUMMEROUR, CHARLES W., III (1971) Ph.D., Mississippi State University
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- TAYLOR, RAYFORD B. (1963) Ph.D., University of Georgia
Associate Professor of History
- THOMAS, MARY MARTHA (1969) Ph.D., Emory University
Associate Professor of History
- THOMPSON, PAUL W. (1974) Ph.D., Duke University
Associate Professor of Economics
- THORNBURG, CHARLOTTE M. (1962) Ed.D., University of Alabama
Professor of Education
- THORNBURG, ROLAND A. (1962) Ed.D., University of Alabama
Professor of Education
- THORNHILL, BONNIE T. (1976) M.S., Medical College of Georgia
Assistant Professor of Nursing
- TONNE, KEITH A. (1980) M.M., Indiana University
Instructor in Music
- TRATHEN, ROBERT (1973) M.B.A., Jacksonville State University
Instructor in Accounting
- TREDAWAY, FLOYD P. (1977) M.S., Auburn University
Instructor in Accounting
- TURNER, JOHN C. (1969) M.S., Jacksonville State University
Instructor, I.M. and Closed Circuit Television
- TURNER, REBECCA (1981) M.S.W., University of Alabama
Instructor in Sociology
- TURNER, WILLIAM, JR. (1978) M.B.A., Alabama A&M University, CPA
Instructor in Accounting
- TUTWILER, ELAINE G. (1977) Ed.D., University of Alabama
Associate Professor of Education
- TYLER, GEORGE TRACY (1981) M.M., University of Northern Colorado
Instructor in Music
- ULINE, CAROL (1978) M.A., Chicago State University
Instructor in Education
- VAN CLEAVE, JOHN T. (1969) Ph.D., Auburn University
Associate Professor of Mathematics
- VINES, WILMA (1978) M.S.N., University of Alabama
Assistant Professor of Nursing
- VINSON, CLARENCE, JR. (1969) Ph.D., University of Alabama
Associate Professor of Science
- WALKER, J. CHARLES (1973) Ph.D., University of Southern Mississippi
Associate Professor of Education
- WALTERS, DAVID L. (1961) M.M., Florida State University; LL.D., Jacksonville State University
Assistant Professor of Music
- WARD, R. CARLTON (1973) M.F.A., University of North Carolina
Assistant Professor of Drama
- WASHINGTON, MARK (1977) M.S., Jacksonville State College
Director of Elementary Laboratory School
- WATTS, ROBERTA O. (1969) M.S. in Nursing, Emory University
Acting Dean, College of Nursing

- WEAR, BETTY (1978) M.S., University of North Carolina
Instructor and Assistant Librarian
- WEAVER, WORDEN (1965) M.A., University of South Carolina
Assistant Professor of History
- WHARTENBY, FRANK LEE (1976) Ph.D., University of North Carolina
Associate Professor of Economics
- WHETSTONE, RAYMOND D. (1978) Ph.D., University of North Carolina
Assistant Professor of Biology
- WHITE, JAMES STEPHEN (1979) Ph.D., Auburn University
Associate Professor of Mathematics
- WHITE, RONALD (1978) Ph.D., Auburn University
Associate Professor of Engineering/Computer Science
- WHITESEL, GEORGE (1975) Ph.D., Michigan State University; A.M.L.S., University of Michigan
Instructor and Assistant Librarian
- WHITTON, STEVEN J. (1973) Ph.D., University of South Carolina
Associate Professor of English
- WIGLEY, WANDA LOU (1972) Ed.S., University of Alabama
Assistant Professor of Special Education
- WILLIAMS, GAYNER DAVIS (1966) M.S., Jacksonville State College
Instructor in English
- WILLIAMS, JIMMIE NELL (1968) M.A. in L.S., George Peabody College for Teachers
Instructor and Assistant Librarian
- WILLIAMS, SUSAN (1977) Ph.D., George Peabody College for Teachers
Associate Professor of Education
- WILSON, BARBARA T. (1974) M.A., University of Alabama
Instructor in Health and Physical Education
- WILSON, CLYDE T. (1971) M.S., Jacksonville State University
Admissions Counselor for Nursing
- WILSON, JERRY B. (1967) Ph.D., Emory University
Associate Professor of Philosophy
- WILSON, RICHARD ALLEN (1977) M.B.A., Memphis State University
Instructor in Marketing
- WINGO, H. CALVIN (1967) Ph.D., University of Georgia
Professor of History
- WINGO, PATRICIA W. (1967) Ph.D., University of Georgia
Professor of History
- WOOD, CPT. KENNETH R. (1981) B.S., Jacksonville State University
Assistant Professor of Military Science
- WOOD, LILA (1976) M.N., Emory University
Assistant Professor of Nursing
- WOODWARD, BASCOM, III (1972) Ed.D., University of Alabama
Vice President For University Services
- WRIGHT, ELSIE L. (1970) Ph.D., University of Alabama
Associate Professor of Psychology
- YEH, PU-SEN (1967) Ph.D., Rutgers University
Associate Professor of Engineering
- YOCUM, VIRGINIA (1971) Ed.D., University of Alabama
Associate Professor of Home Economics
- YOUNGBLOOD, BETTYE S. (1962) Ph.D., University of Alabama
Professor of Chemistry
- YUNKER, GARY (1980) Ph.D., Southern Illinois University
Associate Professor of Psychology
- ZIMMERMAN, JOEL W. (1977) M.M., Wichita State University
Instructor in Music

COMMITTEES OF THE UNIVERSITY 1982-83

1. *Administrative*
Dr. Montgomery
Dr. Reaves
Dr. Woodward
Mr. Hopper
Mr. Rowe
2. *Educational Council*
All Academic Deans
All Department Heads
President of Faculty Senate
3. *Publications Board*
Mr. Hopper
Dr. McMillan
Mrs. Lovett
Mrs. Caver
President of SGA
and two other student
representatives
4. *Athletic Council*
Mr. Cole
Dr. Boozer
Dr. Hope Davis
Mr. Hopper
Dr. Pope
Mr. Rowe
Mr. Larry Smith
Dr. Vinson
5. *Freshman Advisement*
All Academic Deans
Dr. Woodward
Dr. Jerry Smith
Dr. Schmitz
Mr. Meehan
6. *Library*
Dr. Clyde Cox, Chairman
Dr. Childress
Dr. Barry Cox
Mrs. Watts
Mr. Tredaway
7. *Honors Awards*
Dr. Boozer, Chairman
Dr. Woodward
Dr. Allen Smith
Dr. Barker
Mrs. Watts
President of S. G. A.
8. *Scholarship Committee*
Mr. Larry Smith, Chairman
Mrs. Andrews
Mr. Cole
Mrs. Craven
Mr. Hopper
Mrs. Higginbotham
Dr. Calvin Wingo
Mr. Rowe, Adviser
9. *Financial Aid*
Mr. Larry Smith, Chairman
Mr. Hopper
Mr. Prichard
Dr. Schmitz
Dr. Woodward
SGA President
10. *Student Appeals*
Vice-President for University
Services, Chairman
Director of Public Relations
A teaching staff member from
Counseling Services
President (or a teacher-officer)
from JSU-AEA
President (or a teacher-officer)
from Faculty Senate
11. *Admissions Committee*
Dr. Woodward
Dr. Jerry Smith
Mr. Meehan
Dr. Brannen
Mrs. Harvey

MISSION STATEMENT

Jacksonville State University is a state-supported, coeducational institution providing up to six years of study. Its purpose is to provide quality education integrating traditional academic pursuits with career-oriented programs at reasonable costs to its students. In addition, the University attempts to provide service to the community in Northeast Alabama through consulting and research activities and continuing education programs.

Drawing primarily from the Appalachian region, the University makes available educational opportunities to a diverse student population while maintaining academic standards that insure a quality education to those who graduate. This maintenance of high standards is accomplished primarily through inspired teaching, counseling and the promotion of excellence.

Programs at Jacksonville State University are designed to meet the personal, social and cultural needs of the students and prepare them for professional careers. Every effort is made to assist and encourage students through academic advisement, instruction, career planning and preparation to enter the job market.

GOALS

To increase students' performance in the basic skills of reading, communication and mathematics.

To enable students to acquire a depth of knowledge in at least one academic discipline.

To enable students to develop and maintain high standards of performance.

To increase the desire and ability of students to undertake self-directed learning in the areas of personal, social, academic and vocational growth.

To enable students to align interests with abilities through implementation of a Career Development Program.

To enable students to develop job-seeking skills such as resume development and interviewing skills through implementation of a comprehensive career development and placement service.

To provide faculty/student forums to address acknowledged academic/affective needs.

To increase faculty involvement in academic and career advisement to all students.

To provide the faculty with additional resources necessary for continuous improvement in career development and academic advisement.

To provide additional quality academic programs and/or experiences to prepare students for useful careers, satisfying jobs and an appropriate position in society.

To make academic programs more responsive to the changing needs, problems and requirements of society.

To expand existing programs that presently are still in the formative stages of development to accommodate those students desiring to further their education experiences in particular areas.

To expand gradually opportunities for faculty research.

To strengthen Planning, Management and Evaluation, increasing effectiveness of the decision-making process.

To develop and support a data collection, storage and retrieval system, providing information to the decision-making process.

To provide additional academic support services in ways that better insure the effectiveness and efficiency of academic programs.

To increase fiscal resources to the University through additional support from alumni, foundations, federal and other sources.

To broaden and strengthen the visibility of the University and to seek input from the community at large concerning the mission and goals of the University.

To expand gradually community services provided by the University.

To provide flexible modes of instruction to meet the unique needs of individual students having difficulty with traditional methods.

To maintain a reputable standing for the University in the academic world.

To maintain a campus climate in which differences of opinion can be aired openly, candidly and amicably.

To develop competency-based guidelines for courses at both the undergraduate and graduate levels.

GENERAL INFORMATION

INTRODUCTION

Jacksonville State University is a multipurpose institution, located in northeast Alabama, to serve primarily the citizens of that area. It offers the B.A., B.S., B.S. in Education degrees and, in addition, basic engineering and pre-professional training for medicine, law, veterinary medicine, pharmacy and agriculture.

In addition to its undergraduate program, the University offers graduate study in the M.A., M.S., M.S. in Education, M.B.A., and M.P.A. degrees. Detailed information concerning these degrees may be found in the graduate *Bulletin*, published separately.

A summer school is also provided which offers the same quota of courses as does the regular session. During this session credit may be earned toward graduation or may be used in securing, extending or renewing teachers' certificates. The University maintains laboratory schools at both the secondary and the elementary level in which its students are given training in the application of the principles learned in the theory and the subject matter classes.

The Department of the Army operates a Senior Program of General Military Science, Reserve Officers' Training Corps at Jacksonville with either a two- or four-year program of instruction. The first two years, basic course, deal with subjects pertaining to the Army in general, while the advanced course is designed to develop junior officers for the Army. The program is open to male and female students. ROTC courses may be taken for academic credit without incurring any military obligation.

One of the most valuable agencies in the academic life of any university is the library. As such, the library at Jacksonville receives sufficient funds for the purchase of books and materials to keep it adequate for the needs of both undergraduate and graduate students.

The campus itself is located on the northern edge of the city and has had considerable landscaping, which has greatly accentuated its natural beauty. The buildings are located so as to provide maximum accessibility from all parts of the campus.

Students may be admitted to advanced standing by presenting credits from an accredited college or university. Such credits will be accepted as are fair equivalents of the courses offered at this institution.

Counselors in the University Counseling Center are always available to help students with their problems—personal and vocational.

POLICY ON PRIVACY RIGHTS OF STUDENTS

Notification by the University

At least annually the University shall notify its eligible students of its policy on privacy rights of students as follows:

1. Access to records.

(a) Subject to the limitations contained in (b) which follows, the education records of an eligible student shall be accessible to such student. Such right of access shall include: The right to be provided a list of the types of education records which are maintained by the institution and are directly related to students; the right to inspect and review the content of those records; the right to obtain copies of those records, which may be at the expense of the eligible student (but not to exceed the actual cost to the institution of reproducing such copies); the right to a response from the institution to reasonable requests for explanations and interpretations of those records; the right to an opportunity for a hearing to challenge the content of those records; if any material or document in the education records of

a student includes information on more than one student, the right to inspect and review only such part of such material or document as related to such student or to be informed of the specific information contained in such part of such material.

(b) The following materials will not be available to an eligible student: Financial records of the parents of the student or any information contained therein; confidential letters and statements of recommendations, which were placed in the education records prior to January 1, 1975, if such letters or statements are not used for purposes other than those for which they were specifically intended; if the student has signed a waiver of the student's right of access, confidential recommendations (1) respecting admission to any education agency or institution, (2) respecting an application for employment, and (3) respecting the receipt of an honor or honorary recognition.

2. Procedures for granting access.

(a) An eligible student desiring access to his/her education records shall make a request in writing to the appropriate office. Requests concerning: (1) Admissions and Registrar records should be made to the University Registrar; (2) financial records should be made to the Vice President of Business Affairs; (3) financial aid records should be made to the Director of Financial Aid; (4) placement, counseling, disciplinary, health and security records should be made to the Dean of Student Affairs; (5) school and departmental records should be made to the Dean of the appropriate school; (6) employment records should be made to the Director of Personnel.

(b) In the event the records are not produced for inspection as set out above, or there is some question as to the right or duty of the office to produce them for inspection, the matter shall forthwith be submitted to the head of the office involved for determination. An appeal from his decision may be made immediately to the President of the University, who may notify the Records Grievance Committee, if appropriate.

3. Challenges to the content of records.

(a) Any dispute with an eligible student regarding the content of his/her education records will be settled if possible through an informal meeting and discussion with the student.

(b) If the dispute is not settled through the informal meeting and discussion referred to above, either the student or the appropriate official of the University may request a formal hearing on the matter. The hearing shall be conducted and the decision rendered by the Records Grievance Committee appointed by the President. At said hearing the eligible student shall be afforded a full and fair opportunity to present evidence relevant to the issues involved. A decision shall be rendered in writing by the Committee within a reasonable period of time after the conclusion of the hearing, in no case to be more than 15 days.

4. Release of personally identifiable records.

(a) An eligible student may request in writing that directory information not be made accessible to any party except those set forth in (b) below. Any such request shall be made within seven days after the formal registration period ends; this request may not be withdrawn during the semester in which made. Directory information includes the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous education agency or institution attended by the student.

(b) Without the written consent of an eligible student, other educational records shall not be made accessible to any party other than the following: Other University officials and teachers who have a legitimate educational interest in such records; officials of other schools in which the student seeks and intends to enroll; the Comptroller General of the United States; the Secretary of the Office of Education; the U.S. Commissioner of Education; the Director of the National Institute of Education; the Assistant Secretary for Education; authorized state educational authorities; the appropriate authorities in connection with the student's application for or receipt of financial aid; state and local officials or authorities to which such information is specifically required to be reported or disclosed by state law adopted prior to November 19, 1974; organizations conducting

studies for, or on behalf of, educational agencies or institutions for the purpose of developing, validating, or administering predictive tests, administering student aid programs, and improving instruction, if such studies are conducted in such a manner as will not permit the personal identification of students and their parents by persons other than representatives of such organizations, and such information will be destroyed when no longer needed for the purpose for which it is conducted; accrediting organizations in order to carry out their accrediting functions; parents of a dependent student or such parents, as defined in Section 152 of the Internal Revenue Code of 1954; or in compliance with judicial order, or pursuant to any lawfully issued subpoena, upon condition that the students are notified of all such orders or subpoenas in advance of the compliance therewith by the educational institution.

(c) The written consent of the eligible student referred to in (3b) above must be signed by the student, must be dated, shall include a specification of the records to be released, the reason for such release and the names of the parties to whom such records will be released. If requested in such written consent, a copy of the records to be released shall be provided to the eligible student upon payment of the reproduction cost.

(d) The restriction on the release of education records or personally identifiable information contained therein, as set out in (3b) above, shall not prohibit the release of information from the education records of an eligible student to appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health or safety of a student. The factors which should be taken into account in determining whether records may be released under this section include the following: The seriousness of the threat to the health or safety of the student or other persons; the need for such records to meet the emergency; whether the persons to whom such records are released are in a position to deal with the emergency; and the extent to which time is of the essence in dealing with the emergency.

(e) No personal information on a student will be released without a written statement from the University to the party receiving the information that no other party is to have access to such information without the consent in writing of the eligible student.

SOCIAL SECURITY NUMBER

The student's social security number is confidential. The use of the social security number as the student number is voluntary. If the student desires not to use the social security number as a student number he/she may notify, in writing, the Office of Admissions of this intent. Any social security number used as a student number will not be released without the consent, in writing, of the student.

Authority for requesting the disclosure of a student's social security number is in Section 7 (a) (2) of the Privacy Act 1974 (5 U.S.C. 522 a).

Section 504

COMPLIANCE

Jacksonville State University has filed with the Federal Government an Assurance of Compliance with Section 504 of the Rehabilitation Act of 1973 as amended.

The University does not discriminate on the basis of handicap and no qualified handicapped person shall, on the basis of handicap, be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination under any program or activity which receives or benefits from federal financial assistance.

The coordinator of Section 504 for Jacksonville State University is Dr. Bascom Woodward, Jacksonville State University, Jacksonville, Alabama 36265

ADMISSION

Students are admitted at the beginning of each semester. Applications for admission along with the necessary non-refundable application for admission fee of \$10.00 (check or money order made payable to Jacksonville State University) should be submitted to the Office of University Admissions. Applications may be made a year in advance of the expected date of enrollment. A minimum of three months before the beginning of the term is strongly recommended. It is the student's responsibility to see that his/her high school or college credits are submitted in advance of registration.

Students under academic probation at other accredited institutions may petition for admission to this University, provided they are eligible to return to the institution at which they are on probation.

Students under academic suspension at the last institution attended may not be admitted to this institution. They may, however, petition the Admissions Committee for appropriate consideration of their individual situation.

Students under disciplinary probation or suspension at other institutions are not eligible to enroll at this institution.

In addition to the specific requirements set forth below, the Committee on Admissions, acting under the requirements and policies of its governing board, shall consider applicants for admission to the University on the basis of academic preparation, scholastic aptitude, moral character, and mental and emotional stability, and on the basis of the availability of space, instructional personnel and appropriate curricula. The institution, in the name of its governing board, reserves the right to reject by action of its Committee on Admissions the application of any individual whose characteristics or actions are considered detrimental to existing academic standards and programs, or to established social and personal relationships among students and faculty, or to the preservation of peace and order in the University and the University community. All applicants will be notified concerning admission as soon as all their records have been processed.

NONDISCRIMINATION

Jacksonville State University has filed with the Federal Government an Assurance of Compliance with all requirements imposed by or pursuant to Title VI of the Civil Rights Act of 1964 and the Regulation issued thereunder, to the end that no person in the United States shall, on the ground of race, color, sex, handicap, veteran's status, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity sponsored by this institution. Under this Assurance, this institution is committed not to discriminate against any person on the ground of race, color, sex, handicap, veteran's status, or national origin in its admission policies and practices or any other policies and practices of the institution relating to the treatment of students and other individuals, including the provision of services, financial aid and other benefits, and including the use of any building, structure, room, space, materials, equipment, facility or other property. Any person who believes himself/herself, or any specific class of individuals, to be subjected to discrimination prohibited by Title VI of the Act and Regulation issued thereunder may, by himself/herself or a representative, file with the United States Commissioner of Education or with this institution, or both, a written complaint.

HEALTH RECORD REPORT

Applicants for admission must present this form properly completed. The report form may be obtained in the Office of Admissions and Records.

I. Admission to the Freshman Class

A student entering Jacksonville State University, as a first-time freshman must present the following credentials which are used as criteria in determining the applicant's eligibility for admission:

1. Graduation from an accredited high school with a satisfactory record. The high school transcript must show a minimum of fifteen acceptable units from a four-year high school or a minimum of eleven acceptable units from a three-year secondary school which are required for admission. The units offered for admission must include at least three in English and not more than four of the fifteen from the four-year school, nor more than three of the eleven from a three-year school may be in vocational subjects. Students applying for admission are advised to emphasize in their high school programs the following subjects: English, social studies, mathematics, foreign languages, and the natural sciences.
2. Beginning students entering Jacksonville State University for the first time should present their ACT (American College Test) scores or scores from a comparable test (SAT). If they do not have the ACT scores when they enter, it will be necessary to take the test during the freshman year in order to complete admission requirements. The test may be taken on campus, but it is preferable to take it before entering. The test scores are necessary for counseling, placement, and for registration for course work beyond the freshman year.
3. Applicants desiring a National Direct Loan or Federal Nursing Loan must present a composite score of at least 16 on the American College Test (ACT) in order to be eligible. All other applicants are required to take the ACT. College credit may be allowed for high achievement on the examination. See section under ACT.
4. Every prospective student must present the following in support of his/her application for admission:
 - (a) Non-refundable \$10.00 fee, which must accompany the application for admission;
 - (b) Complete high school transcript.
5. Students should not request a transcript from the principal until their grades for the first semester of the senior year have been recorded. Should the principal send a transcript covering that phase of the work, then he/she need only send a supplemental transcript showing the final semester's grades, units earned, and date of graduation.
6. Veterans of the armed forces and others who are not high school graduates but meet certain qualifications of the Committee on Admissions may apply for admission to the freshman class if they can pass the high school level General Education Development Test (G.E.D.) with a score of not less than 35 on each section of the test and if they present a certificate of high school equivalency.
7. High school students planning to apply for admission to Jacksonville State University should, at the beginning of their senior year, contact their high school principal or counselor for information and test applications. The ACT program test is usually given at regional testing centers in October, December, February, May, and August, or at such other times as may be announced. Applicants living in states or areas where the ACT information is not available should request instructions from the Office of Admissions, Jacksonville State University.
8. Foreign students applying for admission to Jacksonville State University as first time freshmen must present scores earned on the TOEFL examination (minimum 500). These scores are a factor in the admissibility of foreign students.

II. Advanced Standing—Transfer Students

A student may be admitted to advanced standing by presenting credits from an approved institution of college or university rank. Credits on which a "C" grade or better has been

earned at other recognized higher education institutions will be accepted for such courses as are fair equivalents of the courses offered at this institution. A grade of "D" in a course presented for transfer will be accepted only if the student's transferred record shows an overall point average of 1.00 out of a possible 3.00 on hours earned. However, a grade of "D" earned in a course taken through correspondence and/or extension is not transferable. Transfer students must ask the Registrar or Dean of the college/colleges previously attended to send a full official statement of his/her credits several weeks in advance of arrival at this university. Failure to do this may cause the student to register for and take a course for which equivalence would have been allowed.

A student may transfer 64 semester (96 quarter) hours from an accredited junior college provided that acceptable grades have been earned. See full explanation under "Credit from Junior Colleges."

Approved extension or correspondence credits on which a "C" grade or better has been earned at other recognized institutions may be used toward graduation if they are on file in the Office of Admissions and Records at least four weeks in advance of graduation and if they meet specific requirements set forth under academic requirements for graduation.

Advanced standing in accordance with that which is recommended by the American Council on Education and in accordance with institutional policy will be given to veterans who apply for it. Veterans desiring such credit must make application to the Office of Admissions and Records by completing appropriate forms and presenting a copy of their discharge or an official statement of educational experiences and training.

Credit From Junior Colleges

Students transferring from a junior college should not earn credit beyond junior classification, 64 semester hours (96 quarter hours). Students transferring from junior colleges may have an unlimited number of hours accepted upon the original transfer to this institution but they will be required to earn a minimum of 64 semester hours at a 4-year institution from the point of transfer from the junior college.

Students are cautioned to note that any credit earned at a senior college or university prior to attendance at a junior college is counted in chronological order to determine the eligibility of junior college work.

Students who are classified as having junior status (64 semester hours) at Jacksonville are not eligible to return to a junior college for additional work.

Correspondence And Extension

Credit obtained through correspondence or extension courses (taught by regular, full-time faculty members) from other accredited colleges or universities, and extension credit for courses from Jacksonville may be counted towards graduation, provided that the total work done through correspondence or extension, or through a combination of both, does not exceed 12 semester hours. * A student may complete up to his/her last nine hours in residence at any accredited 4-year college or by correspondence. Only hours on which a "C" grade or better has been earned will be accepted.

No credit is granted for courses taken through correspondence or extension in the following areas: English composition and grammar, speech, professional education courses, beginning and intermediate foreign language courses, and science courses with required laboratory.

Written approval must be obtained from the appropriate Dean/academic advisor prior to registering for correspondence work.

*Students are encouraged to consult with their advisers about the possibility of earning credit through credit by challenge or CLEP as an alternative to earning credit by correspondence.

III. Admission to the Accelerated Pre-College Program for High School Students

A student may be admitted as an accelerated high school student by meeting the following conditions:

1. Applicants must have earned a "B" average or better in ninth and tenth grade work.
2. Applicants must have completed the tenth grade before enrolling as accelerated students.
3. All applicants must have the written permission of their principal and/or superintendent.
4. All applicants must submit an application to the University as an accelerated student along with the non-refundable application fee of \$10.00.

Accelerated students are subject to all rules and regulations of the University as well as its rights and privileges. Accelerated students may register for any 100 or 200 level course. While enrolled in high school and college the student may take only 6 hours. During each summer semester 7 hours is the maximum load. Accelerated students must maintain a "C" average or better in all attempted college coursework.

COLLEGE CREDIT FOR ACCELERATED STUDENTS WILL BE AWARDED ONLY AFTER THE STUDENT HAS GRADUATED FROM HIGH SCHOOL AND HAS COMPLETED ALL ADMISSION REQUIREMENTS TO JACKSONVILLE STATE UNIVERSITY.

IV. Transient/Special Students

A student who is in good academic standing from an accredited college or university may be admitted to Jacksonville as a special or transient student. A special/transient student must apply for admission and submit the non-refundable \$10.00 application fee. The student must present evidence of his/her academic standing (official transcript or letter of good standing) in support of the application.

Special/transient students will not be considered degree-seeking students at Jacksonville State University but rather taking courses for personal enrichment and/or to transfer to the institution where the degree is being pursued. Transient students planning to transfer Jacksonville credit to another institution should consult the appropriate dean or registrar to determine the acceptability of the Jacksonville work to the institution where the degree is being pursued.

FOREIGN STUDENT ADMISSION POLICY

In addition to the above admission requirements, foreign students, both undergraduate and graduate, who desire admission to Jacksonville State University shall be required to place, as a minimum deposit with the university, an amount equal to the tuition, books, room and meal costs for one year. Said deposit must be made for each year foreign students desire enrollment at Jacksonville State University. This deposit must be made prior to registration for any courses at the University. For the amount of deposit required, foreign students may contact either the Office of Admissions and Records or the University Business Office.

University policy dictates that foreign transfer students have official transcripts from other colleges/universities attended and TOEFL scores (500 minimum) on file in the Office of Admissions and Records before application materials may be submitted. Transfer students from recognized colleges/universities within the United States may have the TOEFL requirement waived. However, before that determination may be made, it will be necessary that official transcripts from each college/university attended be on file in this office showing satisfactory completion of the Freshman English composition sequence.

All applicants will be notified concerning admission as soon as all their records have been processed. A student who wishes to live in a college residence hall must note, however, that a

letter of acceptance does not in itself entitle the applicant to a room. An applicant desiring a room in a residence hall must submit a room reservation request form along with the customary reservation fee to the Director of Housing.

SUGGESTIONS FOR PROSPECTIVE STUDENTS

1. Students wishing to matriculate should send in advance of their arrival an official transcript of their credits in order to facilitate registration and classification.

2. Those applicants who intend to live in a dormitory should not wait to be notified of acceptance but should complete the application for dormitory reservation which is ordinarily included with the regular application forms, and return it along with the required \$20.00 dormitory Reservation Fee to the Business Office without delay.

3. Rooms in the dormitories are provided with bedroom furniture, mirrors, tables, and chairs, but students must furnish bed linen, towels, pillows, curtains, etc.

4. Enough money to cover books should be brought for immediate use. Tuition, fees, and room must be paid by the due date. Meal plans are available from Hopper Cafeteria, food service on campus.

5. Mail addressed to a student in care of Jacksonville State University should specifically indicate the dormitory in which the student resides. In the case of students living off the campus, the local address should always be used.

6. Prospective students are encouraged to study carefully this entire bulletin. If they fail to find all the information desired or if clarification of the statements found herein is needed the student should write the Office of Admissions for additional information.



Twenty five members of the Senior Class of 1910 pose on the front steps of Hames Hall, administration and classroom building for the State Normal School. Six of their classmates were missing when this picture was taken.

TUITION AND FEES, FINANCIAL POLICIES

Jacksonville State University's fees have remained lower than those charged by most other quality institutions in the nation. Small increases are required as costs rise; however, every effort is made to keep fees and charges at a minimum.

PAYMENTS

Students who pre-register during regular registration will be sent a statement of fees due and are allowed to pay a minimum 25% of tuition, fees, and dormitory charges, by approximately seven (7) days before classes begin, to confirm their registration. Students who do not pre-register will receive a statement at the time of registration and must pay a minimum 25% of tuition, fees, and dormitory charges at the Business Office the same day of registration. Statements will be mailed to mailing address on record of all students enrolled at close of registration for balance of account due. Balance is due approximately $\frac{1}{4}$ way into the semester. Accounts may be paid by mail or at the University Business Office (VISA or MasterCard also accepted). Mailing of payment is encouraged.

Students are expected to meet all financial obligations by the appropriate due date. The University reserves the right to deny admission and withhold transcripts of any student who fails to meet promptly his/her financial obligations to the University. It is each student's responsibility to be informed of all registration and fee payment dates, deadlines, and other requirements by referring to the official calendar of events in the catalog, announcements printed in the class schedule booklets, or other information disseminated from time to time. When necessary, students should inform their parents of the deadline dates, and the necessity for meeting them.

Any collection costs or charges for all attorney fees necessary for the collection of any debt to the University will be charged to and paid by the debtor. Questions about charges or refunds should be addressed to the Business Office.

CHECKS

Payment on accounts by check is encouraged. In the event a student presents a check which is not honored by the drawee's bank, there shall be a charge of \$5.00 levied against the student for each returned check. After having two (2) checks returned, privilege of paying by check is forfeited. No counter checks will be accepted. The University is unable to cash personal checks, but will cash money orders or cashiers checks up to \$50.00.

FOREIGN STUDENTS

For those foreign students enrolling with the University there is a requirement for a deposit of \$2,000 for their tuition, fees, and other charges, prior to being admitted to the University.

FEES

The following fees and charges are in effect at this time. However, since the catalog must be published well in advance of the next school year, it is not always possible to anticipate changes. Thus the fee schedule may have to be revised. Every effort will be made to publicize changes as far in advance as possible.

AVERAGE COST PER STUDENT PER 16-WEEK SEMESTER.

The estimated costs listed below are intended only to aid the student in approximating his/her needs for one semester. This schedule does not include laboratory fees charged for credit in music, nursing, home economics and art courses as outlined; for deposits, special services, or materials that the student may require; nor for allowance for books and supplies which may be needed.

Total basic fees (12 or more hours).....	\$350.00**
Room and meals per semester (estimated).....	700.00
ESTIMATED TOTAL.....	\$1,050.00

TUITION**Undergraduate Students:**

12 or more hours	\$350.00**
Less than 12 hours, per hour	30.00**

Out of State Fee:

12 or more hours (Add to resident charge)	\$175.00
Less than 12 hours, per hour (Add to resident charge)	15.00

Graduate Students:

10 or more hours	\$375.00**
Less than 10 hours, per hour	38.00**

Out of State Fee:

10 or more hours (Add to resident charge)	\$187.50
Less than 10 hours, per hour (Add to resident charge)	19.00

**Lab fees in home economics, music, art and nursing charged when applicable. All fees, room and board are due and payable at registration and must be paid by the due date.

ROOM

Dormitory rooms are available. A student's charges for room will be refunded on a prorata basis from the Monday following the official date of leaving the dormitory. *No* refund will be given on room for the last two (2) weeks of the fall and spring. *No* reduction in room charges will be made unless a student enters the dorm two (2) weeks after the semester begins. A minimum of two (2) weeks room charge will be incurred if a student checks out after classes begin. *No* refund is allowed for room during the minimester, and summer semesters.

Rates for rooms are as follows:

Full Semester:

Men's Dormitories	Room Per Semester
Crow Hall	\$225.00 (air conditioned)
Luttrell Hall	225.00 (air conditioned)
Dixon Hall	225.00 (air conditioned)
Glazner Hall	200.00 (not air conditioned)
Logan Hall	200.00 (not air conditioned)
Patterson Hall	200.00 (not air conditioned)
Abercrombie Hall	200.00 (not air conditioned)

Women's Dormitories	Room Per Semester
Sparkman Hall	\$275.00 (suite type, air conditioned)
Rowan Hall	225.00 (air conditioned)
Curtiss Hall	225.00 (air conditioned)
Weatherly Hall	225.00 (air conditioned)
New Dorm	225.00 (air conditioned)
Daugette Hall	200.00 (not air conditioned)
Pannell Hall	200.00 (not air conditioned)

Private rooms are assigned only when available after approval of the housing office at a rate per semester of 1½ times the double occupancy rate. The student has seven (7) days after the Housing Office assigns the private room to pay the private room charge.

There shall be no refund or adjustment in room or dormitory change unless a more expensive choice is made.

University Housing reserves the right to consolidate double-occupancy rooms in which only one student is living. This consolidation will be implemented as soon after registration as possible. University housing reserves the right to close dormitories if available rooms exceed student requests.

Entering freshmen and transfer students who make a housing application for a specific semester must notify the Housing Office on or before the last day of registration to receive a refund of deposit. Returning students should refer to the check-out instruction sheet when checking out of the dormitory for deposit refund information. Deposits paid after refund deadline are not refundable.

If a student moves into a dormitory after registration or moves into a more expensive dormitory after registration, he/she must pay for these costs in the Business Office on date assigned to dormitory.

OTHER FEES AND DEPOSITS

(Required of students only when applicable)

Initial Application for Admission		
Fee (non-refundable)	\$ 10.00	per student
Degree Fee (non-refundable)	\$ 20.00	undergraduate
Degree Fee (non-refundable)	\$ 26.00	graduate
Degree Reprint Fee (undergraduate and graduate)	\$ 4.50	per student per diploma
Late Registration Fee	\$ 5.00	per student
Change in Course Schedule Fee	\$.50	per hour involved
Certificate Fee	\$ 10.00	per student
Transcript of Records	\$ 3.00	each after the first one has been issued
Audit Fee	\$ 65.00	one or more courses
Motor Vehicle Registration Fee	\$ 5.00	per academic year per decal
Delinquent Payment Fee	\$ 25.00	Applicable to those who were confirmed but failed to pay balance by due date.
Nursery School Program	\$115.00	per child per full semester
	\$ 40.00	per child per short semester

SPECIAL LABORATORY FEES

Art 309, 409, 410	\$ 18.00	per course
Home Economics 130-131-330-332-333-334-335 341-352-371		
431-432-433-434-471-472-473	\$ 3.00	per course
232	\$ 6.00	per course
121-122-221-222-323		
422-423-428-442	\$ 7.50	per course
Music 113, 114, 134, 135, 136, 137, 213, 214, 234, 235, 236, 237, 313, 314, 334, 335, 336, 337, 413, 414, 434, 435, 436, 437	\$ 25.00	per course
Music 170, 171, 280, 281, 290, 291	\$ 3.75	per course
Nursing 202, 210, 315, 318, 321, 415, 421, 430	\$ 10.00	per course

OUT-OF-STATE FEES

A student's resident status is determined on a semester-by-semester basis. If a student has attended Jacksonville State University prior to the beginning of the fall semester, 1981, he/she is considered a resident student. For other criteria contact appropriate office, undergraduate students, Office of Admissions and Records; and graduate students, Office of the Dean, College of Graduate Studies.

WITHHOLDING OF CREDITS

Any student who is indebted to the university for any reason at the end of a semester will have his/her grade report for that term and complete academic record withheld until the student's account is settled through the Business Office.

IT IS THE STUDENT'S RESPONSIBILITY TO PAY ALL TUITION AND FEES BY THE DUE DATE REGARDLESS OF WHETHER A BILL IS RECEIVED. IF NOT PAID BY THE DUE DATE, THE STUDENT'S REGISTRATION WILL NOT BE CONFIRMED.

REFUNDS OR CHARGE ADJUSTMENTS**I. WITHDRAWAL:***

Any student who has pre-registered and has paid but does not wish to attend must notify the Career Development and Counseling Services (CDCS) in person prior to the first day of classes to receive a full refund.

Students scheduled to receive financial aid who do not plan to attend a session for which they have pre-registered must notify the Financial Aid Office in writing prior to the first day of classes to cancel their pre-registration and financial aid. Students who fail to notify the Financial Aid Office prior to the first day of classes will be enrolled and subject to academic and financial penalty.

Tuition fees will be refunded as follows after classes have started:

Eighty per cent (80%) of tuition fee if withdrawal from all classes at Jacksonville State University occurs within one (1) week after the close of the registration period. Eighty per cent (80%) of tuition fee if withdrawal from all classes at Jacksonville State University occurs within three days after the close of the registration period for the Mini and Summer terms.

Fifty per cent (50%) of tuition fee if withdrawal from all classes at Jacksonville State University occurs within three (3) weeks after the close of the registration period. Fifty per cent (50%) of tuition fee if withdrawal from all classes at Jacksonville State University occurs within nine days after the close of the registration period for the Mini and Summer terms.

The same percentages apply to refund of laboratory fees. All refunds will be mailed to student's home address. All remaining charges are due and payable upon withdrawal. There is no refund of tuition fees if withdrawal occurs thereafter. The above rules and percentages also apply to graduate students.

Application processing fee of \$10.00 is not refundable. Each student living in university dormitories will be charged the cost of the room rent occurring within the period of withdrawal. (See academic withdrawal section.)

II. CHANGE OF COURSE/S DROP/ADD: *

After classes begin, there shall be no refund or adjustment for dropping of courses if still enrolled in any other class with Jacksonville State University.

1. There will be a tuition adjustment for a change of course prior to the first day of classes.
2. If a student is taking 11 hours or less and adds enough hours to bring him/her to the 12 hour basic rate, he/she must pay the difference between what he/she originally paid and the \$350.00 basic charge for 12 or more hours.
3. If a graduate student adds enough hours to bring him/her to the 10 hour basic rate, he/she must pay the difference between what he/she originally paid and the \$375.00 basic charge for 10 or more hours.

*Students are reminded that the term "DROP" refers to the dropping of part, but not all of the course work in a term; while "WITHDRAWAL" refers to ending enrollment in all classes at JSU for a term.



When the State Normal School outgrew its facilities around 1900, it moved to downtown Jacksonville and occupied the vacant Calhoun County Courthouse (at left), which was renamed Atkins Hall. The Iron Queen Hotel, at right, served as the dormitory, housing male students on one floor, and female students on another. It is interesting the college's first dormitory was co-educational.

STUDENT FINANCIAL AID

Jacksonville State University offers a broad program of financial aid to assist as many deserving students as possible.

All students interested in applying for any of the aid programs should first read the brochure "Financial Aid for Students Attending Jacksonville State University". Available from the Financial Aid Office after January 1 of each year, the brochure is the official policy manual for financial aid and also contains student consumer information. Since the University cannot supply the financial needs of all applicants, students are also urged to investigate outside sources of aid.

Most aid programs are based on the individual need of the applicant without regard to grades, so long as the applicant is not on academic probation. Demonstrated financial need is determined by completing an independent, standardized need analysis form. Beginning with the 1982-83 academic year, Jacksonville State University will utilize the Application for Federal Student Aid (AFSA) as the need analysis for most of its programs of assistance.

The AFSA contains questions pertaining to the student's assets, income, and other resources. Students who are dependent on their parents must also submit information concerning parental income, assets, and certain liabilities.

Once the applicant completes the AFSA, it is to be mailed to the processor in Los Angeles, California. In approximately six weeks the processor sends the applicant a reply in the form of a Student Aid Report (SAR).

The SAR will contain an index number which will be used to determine your eligibility for the Pell Grant, plus campus employment and certain loans if an Application for Financial Aid is also completed. The applicant should send the Student Aid Report to the Financial Aid Office immediately after receiving it unless it needs to be sent back for corrections. There is no charge for submitting the ASFSA need analysis form.

Applicants and their parents are cautioned to complete all forms as honestly and accurately as possible. Any person who knowingly makes false statements and/or misrepresentations is subject to a fine or imprisonment or both under provisions of the United States Criminal Code. Applicants are also reminded that they may be asked to substantiate information they submitted on the need analysis.

Following is a brief description of the different assistance programs:

GRANTS

Grants are gifts based on need and do not have to be repaid, and constitute the majority of assistance awarded to applicants. Students from low and lower middle income families usually qualify for a grant.

All grants are restricted to students who have not yet earned their first baccalaureate degree.

Pell Grants

The Pell Grant (formerly called Basic Grant) is a federal entitlement program and is intended to be the "floor" of a student's financial aid award.

Pell Grants vary from about \$200 to \$1,300 per academic year, depending on the individual need of the applicant. This grant can not pay for more than one-half of the educational costs of the applicant.

To apply, submit an Application for Federal Student Aid as soon as possible after January 1. In approximately six weeks the applicant will receive a Student Aid Report which should be submitted to the Financial Aid Office so the award can be calculated in order to receive a grant.

Eligibility is normally based on prior year income. Under certain circumstances, however, eligibility may be based on current year income. Death of a parent or spouse, separation or divorce, loss of income due to a natural disaster, or unemployment for ten consecutive weeks would allow an applicant to file a Special Conditions Form and base eligibility on current year income. These forms are available in the Financial Aid Office.

Each year the Federal government arbitrarily selects approximately ten percent of Pell Grant applications for "validation". If an asterisk appears next to your eligibility number you must provide the Financial Aid Office with evidence to substantiate the information submitted.

Supplemental Educational Opportunity Grants

Supplemental Grants are provided by the Federal government and are awarded to students of exceptional need. To apply, submit an Application for Federal Student Aid (AFSA) as soon as possible after January 1, 1982, preferably before April 15, 1982. Mail the Student Aid Report to the Financial Aid Office as soon as it is received. The applicant must also submit an Application for Financial Aid to the Jacksonville State University Financial Aid Office as soon as possible after January 1, 1982, preferably before April 15, 1982.

Alabama Student Assistance Program

Undergraduate students who have been residents of Alabama for at least one year prior to the time of making application are eligible to be considered for this grant. All students who submit a Student Aid Report and a Jacksonville State University Application for Financial Aid will be considered for this grant.

LOANS

Students who must borrow money to finance their education should consider the long-term, low interest loans which are available to those who meet the eligibility requirements.

Prospective borrowers are reminded that all loans must be repaid regardless of whether or not they graduate.

National Direct Student Loan

The most popular loan program is the National Direct Student Loan, formally called National Defense Loan. Funds are provided jointly by Jacksonville State University and the Federal Government to students in financial need. Loans range from \$200 to \$1000 per year.

Entering freshmen must make a composite of at least 16 on the ACT or at least 800 on the SAT to be considered for the loan. Students already enrolled must have and maintain a cumulative grade point average of at least 1.0 (C).

While the borrower is enrolled in college there is no interest to pay. Six months after the borrower leaves college, repayment of the loan begins over a period of up to ten years at a rate of 5% per annum on the unpaid balance. Deferment of payment may be granted in some instances for persons in the armed forces, VISTA, the Peace Corps, graduate study, service in the commissioned corps of the U.S. Public Health Service, or internship required to begin professional practice or service. Cancellation of portions of the loan is possible if the borrower teaches in certain schools with a high concentration of low income families, or is employed as a full-time teacher of the handicapped. Borrowers who serve in the armed forces in areas of hostilities may also have portions of their loans canceled.

To apply, submit an Application for Federal Student Aid (ASFA) as soon as possible after January 1, 1982 preferably before April 15, 1982. Mail the Student Aid Report to the Financial Aid Office as soon as it is received. The applicant must also submit an Application for Financial Aid to the Jacksonville State University Financial Aid Office as soon as possible after January 1, 1982, preferably before April 15, 1982.

Federal Nursing Loans

This federal program was created to provide loans to students in need of assistance to pursue a course of study leading to a degree and career in nursing. Funds are provided jointly by Jacksonville State University and the Federal Government, and loans range from \$200 to \$2000 per year.

In order to be considered for the loan, the applicant must be enrolled or accepted for enrollment in the Lurleen B. Wallace College of Nursing.

While the borrower is enrolled in college there is no repayment or interest accrual. Nine months after graduation, the borrower begins repaying the loan at a rate of 6% per annum on the unpaid balance.

Prior to September 29, 1979, all recipients of this loan who worked as a nurse in any public or non-profit hospital were eligible to have most of their loan repayment canceled. This provision has changed. Now all recipients of this loan who agree to work in a designated shortage area of nurses after graduation may have up to 85% of their loan repaid. Details of repayment provisions may be obtained from the Special Services Office in the Theron Montgomery Building.

Should the borrower change course of study and no longer major in nursing, repayment of the loan must begin within nine months.

The application procedure and academic requirements for this loan are identical to those of the National Direct Student Loan.

Guaranteed/Federally Insured Student Loans

Many banks, credit unions, and savings and loan associations cooperate with the Federal Government in making Guaranteed Federally Insured Student Loans.

Eligible students secure this loan from participating lending institutions and the Federal Government pays the interest on the loan and insures it against default while the borrower is enrolled in college.

Six months after the borrower terminates his/her studies, repayment begins to the lending institution at a rate of 9% per annum on the unpaid balance.

The loan is available to students whose family adjusted gross income for the prior year was \$30,000 or less. Those whose income exceeded \$30,000 for the prior year must prove need for the loan.

To apply, first secure a lender for the loan, then contact the Financial Aid Office for the necessary application. It is necessary that the applicant include a copy of his/her family's Federal Income Tax for the prior year to apply for this loan.

Students interested in applying for this loan should allow at least six weeks for the application to be processed. Students who plan to use their loans to confirm their registration should make sure it arrives in time to accomplish this.

Non-Federal Loans

There are a number of good non-federal loans available, and persons who are ineligible for the federal programs should consider one of these if they must borrow to pay their education costs. Contact the Financial Aid Office for details concerning these loans.

CAMPUS EMPLOYMENT

Studies indicate that students may work part-time while attending college without sacrifice to their grades. By working, students are able to contribute to their educational expenses and at the same time gain valuable experience.

College Work-Study

The College Work-Study Program is administered through an agreement between the Federal Government and Jacksonville State University. Those assigned jobs on the program are allowed to work up to 15 hours per week. Checks are issued monthly for work performed.

To apply, submit an Application for Federal Student Aid (AFSA) as soon as possible after January 1, 1982, preferably before April 15, 1982. Mail the Student Aid Report to the Financial Aid Office as soon as it is received. The applicant must also submit an Application for Financial Aid to the Jacksonville State University Financial Aid Office as soon as possible after January 1, 1982, preferably before April 15, 1982.

University Aid Programs

Students who do not qualify for the Work-Study Program because of income are automatically considered for a University Aid job, a non-federal program funded entirely by Jacksonville State University.

The application procedure, rate of pay and number of hours a student may work is identical to the Work-Study Program.

Other Campus Employment

There are a number of other campus jobs available which do not require the applicant to submit a need analysis or Application for Financial Aid. Contact the Financial Aid Office for details.

A Placement Service is also provided to assist students in finding employment in the Jacksonville area. This service is located in the Career Development and Counseling Center.

SCHOLARSHIPS

Scholarships are usually based on an applicant's academic achievement, skill, or ability without regard to financial need.

Entering freshmen from Alabama who score high on the ACT or SAT are encouraged to apply for the Faculty Scholars program. This scholarship pays full tuition costs for the regular academic year and is fully renewable if the recipient maintains a high academic standing. To apply, send a resume to the chairman of the scholarship committee stating the wish to be considered as a Faculty Scholar. Include ACT or SAT results, along with a high school transcript copy. The deadline to apply is April 15. Minimum scores accepted for application are 26 on the ACT or 1230 on the SAT.

Alabama State Nursing Scholarships

Students already enrolled or accepted for admission to the Lurleen B. Wallace College of Nursing are eligible to apply for an Alabama State Nursing Scholarship.

Recipients must have been residents of Alabama at least one year immediately preceding the time of making application, and must work as a nurse in Alabama for one year following graduation. Should the recipient not work as a nurse the scholarship must be repaid, although no interest will be charged.

A total of thirty, \$600 scholarships are awarded each year and are based solely on the applicant's academic achievement and ability. Payment of this scholarship is made to recipients on or after October 1.

To apply, submit an Application for an Alabama State Nursing Scholarship to the Financial Aid Office before April 15.

OTHER PROGRAMS OF ASSISTANCE

Students attend college on a variety of other programs of assistance including:

ROTC

The Army provides ROTC Scholarships on a competitive basis for select college students who are strongly motivated toward an Army career. Four-year scholarships are available for students entering college as freshmen and are awarded prior to college entrance. Three-year scholarships are available to select outstanding cadets completing the MSC I. Two-year scholarships are available to outstanding cadets completing the ROTC Basic Course. Cadets applying for three and two-year scholarships are expected to enroll in Advanced ROTC in their junior year. One year scholarships are available to Advanced ROTC cadets completing MSC III.

Army ROTC scholarships provide free tuition, books, fees, and laboratory expenses. The cadet also receives a non-taxable subsistence allowance of \$100 per month for a maximum of ten months of each school year. The cadet will normally attend a five-week Advanced Camp after the junior year, for which the pay is approximately \$600 plus travel pay.

Advanced cadets not on ROTC scholarships are also paid a non-taxable subsistence allowance of \$100 per month for a maximum of twenty months. These Cadets also attend the five-week Advanced Camp and are paid approximately \$600 plus travel pay.

For further information write: Professor of Military Science, Jacksonville State University, AL 36265.

Veterans Benefits

Veterans may be eligible for assistance through the GI Bill. An office of Veterans Affairs is located on campus to assist these students. For more information write: Veterans Affairs Office, Bibb Graves Hall, Jacksonville State University, Jacksonville, AL 36265.

Social Security

Students whose parents are receiving Social Security may qualify for Social Security benefits to attend college. Those interested in this program should contact their nearest Social Security Office.

Vocational Rehabilitation

Alabama residents who have physical disabilities may be eligible for a special assistance program through the Vocational Rehabilitation Service. Anyone interested in this

program should write: Director of Vocational Rehabilitation, 2129 East South Boulevard, Montgomery, AL 36111. In addition, most counties have Vocational Rehabilitation branch offices, and a representative from this organization visits the Jacksonville State University campus each week. Contact the Financial Aid Office for additional information on arranging an appointment.

Aid to Graduate Students

Graduate students are eligible for the previously mentioned financial aid with the exception of the grant programs.

Several graduate assistantships are also offered each semester. For more information on this program, contact the Vice President for Academic Affairs, Bibb Graves Hall.

Satisfactory Academic Progress

All students will be allowed to receive financial aid during the first two semesters of their freshman year regardless of academic standing. Entering freshmen, however, must have a composite score of 16 or better on the ACT or 800 or better on the SAT to be considered for the loan programs. A student will be considered eligible academically for a loan if he/she maintains at least a cumulative 1.0 grade average on hours earned at the University.

In order to receive an award of financial aid at the end of the second semester in residency a student must have maintained a grade point average of at least 1.0 on a cumulative total of hours earned. In addition, the student may not be on any probation or suspension status.

Students who are on probation or suspension status due to incompletes or have received incompletes, which if removed with a "C" or better would raise their grade point average to a 1.0 on hours earned, may be given an "Extension of Financial Aid." An "Extension of Financial Aid" shall be for one semester only. During this semester, the student must remove all incompletes with passing grades and/or raise their overall grade point average to a 1.0 on hours earned. During this semester full-time students must maintain a course load of not less than 12 hours. Part-time students must maintain a course load of not less than 6 hours. Part-time and full-time status will be based on previous financial aid awards to the student.

All students who have lost their eligibility due to unsatisfactory academic progress (failure to maintain a 1.0 grade average on hours earned) may only raise their grade point average by taking course work on the Jacksonville State University campus. Once a student has raised their cumulative grade point average to a 1.0 on hours earned, the student will be considered for eligibility for financial aid. No transfer work from other colleges or universities will be considered in raising this grade point average for financial aid.

Aid to Foreign Students

All assistance programs administered by the Financial Aid Office are for students who are citizens or permanent residents of the United States.

The University does provide scholarships to foreign students through its International House Program. Those interested in this program should contact the director of the International House.

Enrollment Requirements

All financial aid commitments are contingent upon actual enrollment at Jacksonville State University. Most programs require at least half-time status (six hours) for eligibility,

while the Pell Grant Program requires full time enrollment (twelve hours) for maximum benefits.

All students who receive financial aid who withdraw may have to repay a proportionate amount of assistance disbursed for that term.

PAYMENT OF FINANCIAL AID

All loans, grants and scholarships are credited to each student's account and a check is issued in the Business Office for the balance, if there is one, on the second day of classes.

Checks for campus employment are issued around the fifth of each month for prior month's work in the Personnel Office. Both the Business and Personnel Offices are located on the second floor of Bibb Graves Hall.

CANCELLATION OF FINANCIAL AID

Students who accept their financial aid must notify the Financial Aid Office in writing if they do not plan to attend. Those who have scheduled financial aid and who have pre-registered should be particularly aware of their responsibility to cancel their financial aid prior to the first class day if they do not plan to attend.



Citizens of Jacksonville have opened their homes to students since the college was founded in 1883. This group of boarding house students poses with owners of the home around 1902. The "SNS" pennants identify the students as members of the State Normal School.

ACADEMIC REGULATIONS

GENERAL REQUIREMENTS

To be considered a candidate for graduation the student must:

1. Fulfill the specific requirements for a particular degree as set forth in the following pages.
2. Spend at least two regular semesters and earn a minimum of 32 semester hours residence work at Jacksonville, even though he/she has been admitted to advanced standing or has transferred credits.
3. Pursue the last semester of work in residence at Jacksonville. (see 8b).
4. Have no more than 12 semester hours in extension or correspondence work or in a combination of these.
5. Earn as many quality points as hours of credit earned and attain other standards approved by the faculty.
6. Be expected to complete the general subject requirements for graduation during the freshman and sophomore years in so far as this is possible. In case of deficiencies, students must register for courses which will remove such deficiencies before they will be permitted to elect other courses.
7. Have a minor subject in addition to a major subject for all degrees with the exception of students earning majors in general studies and nursing. However degrees for those seeking teacher certification may require teaching field(s) in lieu of majors/minors.
8. Complete 128 semester hours of university work and must earn as many quality points as hours earned.
 - a. Those entering with advanced standing must earn as many quality points as hours earned at this institution.
 - b. A candidate for graduation, having satisfied all residence requirements but lacking no more than nine hours, may complete requirements by taking the work in residence at a four-year accredited college or university. See regulations concerning transferred credit.
 - c. A student must earn as many quality points as hours earned in his/her major and minor subjects and in the major and minor subjects taken in residence.
 - d. At least 52 semester hours of the credits presented for a degree must be in courses numbered 300 and above.
 - e. No matter what advanced standing the candidate may have been admitted under, or what credits he/she may have transferred, he/she must earn credit at Jacksonville for at least twelve hours of advanced work (courses numbered 300 or above) in his/her major subject or teaching field area and six hours of advanced work (courses numbered 300 or above) in his/her minor subject.
 - f. Military Science courses may be counted as electives in support of other selected degrees. Completion of Military Science 301, 302, 303, 305, 401, and 402 is required of those students who enroll in the advanced ROTC course.
 - g. Students should select their major and minor subjects before the end of their sophomore year or, if a junior or senior transferring from another college, before they register for any work leading to a degree from this institution. The choice of the major and minor fields must be made only after consultation with the professors/advisors in these fields and must have the approval of both the major and the minor professors/advisors. Note: Students pursuing a degree in education usually will need to select their teaching field(s) by the end of their freshman year.
 - h. The student must, before each registration, confer with his/her advisor and secure his/her approval of the choice of courses for the major and minor (or minors), of electives, and of sequences of such courses.

9. Catalogue Requirements and Time Limits: Degree requirements and other University regulations are established by the catalogue current at the time of initial enrollment, and the student is entitled to complete requirements under that catalogue within a five-year period. The student may elect to satisfy requirements under catalogues issued subsequent to the catalogue of entry, provided all requirements of the later catalogue elected are satisfied and the five-year limit on any one catalogue is applied. Students who fail to complete requirements under one catalogue within the five-year period must elect a more recent catalogue in effect when enrolled. Students whose five-year catalogue entitlement expires as a result of discontinued enrollment are subject to the requirements of the catalogue current at the time of reenrollment. Students who transfer to another institution lose entitlement under the catalogue of initial entry and, upon readmission, are governed by the catalogue current at that time.
10. The institution reserves the right to correct, alter, amend or modify any item contained in the catalogue. Any such changes will be shown in the schedule book of classes or in the correction sheet to the schedule book.

STUDENT LOAD

1. The normal student load for those in attendance during the regular session is defined as 16 hours. The maximum load is 21 hours.
2. No student taking practice teaching in any area should schedule more than 18 hours during that semester.
3. Students in good standing in each summer semester are permitted a normal load of 6 hours and the maximum of 7 hours each summer term (maximum of 3 courses each session).
4. The normal and maximum load in the minimester is 6 hours for the student in good standing.
5. Students failing to pass 60% of their work in any semester will be placed on academic probation. Students in this category are advised to reduce their course load to no more than 12 semester hours in the regular session and no more than 3 semester hours in each summer term.
6. Students can find their point average for class standing and honors by dividing the number of hours attempted (all hours for which registered) into the quality points earned.

REGISTRATION

All students must register before being admitted to classes. The procedure of registering and classifying is outlined in the class schedule book. The appropriate Academic Dean and other members of the faculty advise the students in regard to their program of studies. It is urgent that a student register and be classified during the days set apart for that purpose. Any student whose credits are being withheld is not eligible for registration.

Late Entrance. Students late registering after the third day of class (second day in summer school) will not be allowed to register for more than 16 semester hours during the two full length semesters (6 semester hours during each session of summer school) without approval of the appropriate academic Dean.

Students registering after formal registration will be charged a \$5.00 late registration fee. Students will be responsible for class work from the first class meeting and incur normal absences for classes missed.

Auditing Privilege. A person not regularly enrolled in the University may audit courses with the approval of the instructor of the subject, provided there is space available in the class desired.

Auditors must make application for admission and pay the \$10.00 non-refundable application fee as well as the \$65.00 audit fee which covers one or more courses. Auditors are listed on the class roll but do not participate in classroom discussions, take tests or final examinations, or make reports, and will receive no credit or grades.

Regularly enrolled students, taking at least three hours for credit, may audit courses without payment of an audit fee but must secure permission of the instructors concerned.

Graduate students may audit only one graduate course per semester.

Once a student registers in a course as an auditor, he/she may not change his/her status in that course to a credit basis.

CHANGES IN REGISTRATION

No changes in a student's program of studies will be permitted, nor may courses be dropped, later than the published date. All changes must be made through the Admissions and Records Office or the office of the academic dean. See schedule book of classes for specific procedure. No student will be dropped from the class roll until the instructor is officially notified by the Office of University Admissions and Records (see section on withdrawal).

GRADING SYSTEM

The following represents the grading system used by the University and the basis upon which quality points are earned:

A—three quality points per hour (90-100).

B—two quality points per hour (80-89).

C—one quality point per hour (70-79).

D—no quality points (60-69). This grade will not be assigned for EH 101 and 100.

NC—No Credit (0-69). This grade assigned only in English Composition 101 and 100.

F—no quality points (0-59) failing grades may not be removed. Credit may be earned only by retaking course in residence.

I—Incomplete—no quality points.*

W/P—withdrawn passing.

W/F—withdrawn failing (counts as an F).

X—Audit—no credit.

The passing grade is D.

A student may upgrade a final course grade only by repeating the course on the campus at Jacksonville State University.

Transferred grades are accepted according to the letter grade sent by the issuing institution regardless of numerical scale on which the letter grade was based.

* A teacher may give an incomplete to a student who is otherwise passing and who for legitimate reasons (such as missing a final examination because of illness) is unable to complete the prescribed work. An incomplete must be removed within the next term in residence, or within 12 months, whichever occurs first. An incomplete grade is calculated as a failure until the incomplete grade is removed. A faculty member assigning an incomplete grade is responsible for reporting the permanent grade to the Office of Admissions and Records within the aforementioned deadline dates. Students will be notified in writing of the final grade by the Registrar as soon as the incomplete grade has been officially changed by the faculty member. It is the responsibility of the student to initiate contact with the instructor and complete outstanding course work within the specified time.

FINAL GRADES

No grade except Incomplete (I) may be changed after the submitting of final grades except in the case of error or in communication of student's grade to the Office of

Admissions and Records. Within six weeks after the turning in of the grades, a teacher desiring to change a grade other than an incomplete must make written application through the appropriate department head to the Office of Admissions and Records, stating the reason for the error and the need to change.

Students who have not processed an official withdrawal from the University may not petition for grade changes beyond two weeks from the close of that semester.

HONORS

High scholastic attainment in the University will be recognized in the following ways:

1. Dean's List—The names of students carrying 12 or more hours who obtain an average of 3.0 quality points will be published under the caption "Dean's List, Group A."

The names of students carrying 12 or more hours who obtain an average of 2.5 quality points will be published under the caption "Dean's List, Group B."

2. Honors at Graduation

- (a) The phrase "With Distinction" will be engrossed upon the diplomas of graduating students who obtain an average of 2.75 quality points on hours attempted.
- (b) "With special honors in . . ." will be engrossed upon the diplomas of graduating students who maintain an average of 2.5 quality points in the major field and a 2.0 over-all average on hours attempted.
- (c) For purposes of determining eligibility for "distinction" and "special honors," the work of the student during the entire four years except the last semester in residence will be averaged to determine the appropriate award. Students must also have completed a minimum of 12 semester hours of resident work in the major area of study to qualify for honors.
- (d) Because of the difficulty of equalizing grading systems in different institutions, those eligible for honors must have completed at least 32 semester hours at Jacksonville maintaining the quality point averages required for the honors listed in either (a) or (b) above on the courses completed at Jacksonville as well as in the total record.

ACADEMIC STANDARDS

I. Probation/Suspension.

Students failing to pass 60% of their work in any semester will be placed on academic probation. Students in this category are advised to reduce their course load to no more than 12 semester hours in the regular session and no more than 3 semester hours in each summer term. Those students who are placed on academic probation and fail to pass 60% of their course load will be automatically dropped from the University for any two consecutive semesters. Students so dropped may reapply for admission at the end of the dropped status period (any two consecutive semesters) and may be readmitted on academic probation. Credit may not be earned at any college or university while the student is in a dropped status. Those students who return after having been dropped must pass 60% of their course load their first semester in residence; failure to do so will result in the student being automatically and indefinitely dropped from the University.

II. Undergraduate Retrieval Policy.

The administration recognizes that extenuating circumstances may have precipitated a student's poor academic progress. Such circumstances are not excuses for poor academic progress but may justify consideration for reinstatement.

Students dropped for academic reasons have the option of petitioning through the Vice President for Academic Affairs for reinstatement. Such reinstatement would be termed a retrieval semester. A retrieval shall be for one semester only. Reinstatement after an unsuccessful retrieval must be approved by the Council of Deans. Any student "Temporarily Dropped" or "Indefinitely Suspended" has the option of petitioning for retrieval.

The reinstated student must maintain a 1.00 grade average for each attempted course during the retrieval semester. All requirements specified by the Office of the Assistant to the Vice President of Academic Affairs must be met during the retrieval semester. Among these are a course load of no more than the minimum full-time load for the semester of retrieval, consultation with an academic adviser, and any special conditions necessary for the individual's reinstatement, e.g., specific courses or removal of incompletes.

Students not maintaining the G.P.A. requirement or any condition of their retrieval will be dropped from the University. The retrieval student in a "Temporarily Dropped" status must remain dropped for two consecutive semesters. The retrieval student placed in an "Indefinite Suspension" status must remain dropped for one calendar year, after which reinstatement must be approved by the Council of Deans. Such students will lose all rights to petition for reinstatement during their dropped period, while in any dropped status no credit may be earned at any college or university. In addition, the student will be ineligible to receive financial aid if reinstated after the dropped period. successful completion of the retrieval semester.

The Office of the Assistant to the Vice President of Academic Affairs will have the responsibility of maintaining an active file on each retrieval student. The academic progress of these students will be monitored throughout the semester.

WITHDRAWALS

A student wishing to withdraw from the University within any semester must initially contact the Career Development and Counseling Service. If the student is passing, the permanent record will reflect the notation "withdrew passing," which indicates good standing and the privilege of readmission. If a student is failing, the permanent record will show the notation "withdrew failing." This is equivalent to failures earned in so far as penalties, such as scholastic probation or suspension, are concerned. Refer to appropriate schedule book for deadline dates of withdrawals without penalty.

Prior to the first day of class for a term in which a student pre-registered, he/she may cancel the registration by contacting the Office of Admissions and Records, requesting cancellation of registration. Written request for cancellation of classes must be made in person or mailed and must be received in the Office of Admissions and Records prior to the first day of classes.

The Appeals Committee will function in rare instances when a student encounters circumstances justifying that he/she drop (or withdraw from) courses past normal deadlines. Such circumstances would not normally apply to one course only, but would constitute a set of catastrophic circumstances affecting his/her entire semester's program. Conceivable justification might be:

1. Serious protracted illness or neurosis.
2. Serious personal problems.

In such instances, the student will make written application to the instructor involved, describing the circumstances prompting the request with substantiating documents. If the student feels that the matter has not been satisfactorily settled, he/she may then appeal through channels to the appropriate department head, dean and the Appeals Committee* respectively.

In this case, the Committee will interview the student and instructor involved. After reviewing the evidence, the Committee will make a recommendation to the President of the University. When a decision is reached, the student, the instructor, and the Registrar will be advised.

*The Appeals Committee will be a standing committee consisting of the Vice-President for University Services, the Director of Public Relations, a teaching staff member from Counseling Services, the President (or a teacher-officer) from the JSU-AEA, and the President (or a teacher-officer) from the Faculty Senate. (Committee members from these organizations *must* be teachers.)

Students who withdraw during a semester may not petition for reinstatement during the semester in which the withdrawal occurred.

Students who have not processed an official withdrawal from the University may not petition for grade changes beyond two weeks from the close of that semester. (see refunds section.)

CLASS SIZE

The institution reserves the privilege of withdrawing any course in which fewer than ten students have enrolled and of closing or dividing sections whenever it is deemed that the interests of the students will be better served.

ATTENDANCE AT CLASSES

A student is held responsible for attendance at all classes for which he/she registers. A student may not receive credit for a course in which he/she fails to be present 75% of the time, as determined by faculty attendance records, regardless of the reason.

TESTS AND EXAMINATIONS

Students who miss announced examinations or announced classroom assignments for legitimate reasons may take make-ups, which shall be scheduled by the instructor at a reasonable time and under reasonable conditions. No fee will be charged or penalty incurred (either in the nature of examinations or grading). The legitimacy of the excuse for missing the test is to be determined by the individual instructor. No student, regardless of the reason, may take more than two make-up examinations in a given course.

No regularly announced examination or final examination may be administered for the second time to the same student.

No examination will be scheduled or administered between 12:00 noon Wednesday of homecoming week and the last class before Homecoming.

CLASSIFICATION OF STUDENTS

Students, including transfers, will be classified as sophomores, when they have earned 32 semester hours; juniors, when they have earned 64 semester hours; seniors, when they have earned 96 semester hours.

DUPLICATION OF COURSES

Credit toward graduation for any course, or part of a course, will not be granted twice. This rule applies to all credit, whether the work is pursued at Jacksonville or at other colleges or universities.

Students who duplicate course work should be aware that the semester hours attempted category in their academic record will reflect all work attempted including duplications. Quality points will be awarded to reflect only the higher grade when duplication occurs. If the same grade is earned more than one time, the quality points for one grade only will be allowed.

SEQUENCE OF COURSES

Prerequisites listed in this catalogue must be observed; students should complete all work on the freshman and sophomore levels before entering advanced courses. University courses numbered 400 and qualifying for G (graduate) classification are open only to those students classified as juniors or seniors.

CANDIDATES FOR DEGREES

Application for admittance to candidacy for a degree may be submitted to the Office of the appropriate Dean after junior classification is attained but no later than the first day of class for the semester in which the student will graduate. Before the student is admitted to candidacy, he/she must have satisfied the faculty as to his/her knowledge and use of the English language and as to general intellectual and moral fitness for a degree from this University.

STUDENTS' RESPONSIBILITIES

All students are held responsible for meeting the requirements for graduation as set forth in the catalogue. These requirements are clearly stated in proper places under proper headings. If the student is uncertain as to the program he/she is following, he/she should consult the catalogue, using the index, if necessary, to locate needed information. If the student has lost count of credits earned or those still to be earned, he/she should consult with or write the University Registrar.

NON-TRADITIONAL CREDIT

The maximum hours allowed for non-traditional credit (CLEP, ACT, etc.) is 46 semester hours.

CLEP

(College Level Examination Program)

Jacksonville State University gives credit for appropriate CLEP scores. Students enrolling or enrolled at Jacksonville State University who are interested in attempting College Level Examinations should consult the Career Development and Counseling Services and the information on file there.

The maximum credit attainable by CLEP is 31 semester hours for the general examinations and 15 semester hours for the subject examinations.

A student may not receive CLEP credit for any previously attempted college course or for a basic course in those areas in which he/she has acceptable college credit for more advanced courses. No examinations may be repeated in an attempt to receive credit.

CLEP credit awarded by Jacksonville is not considered resident credit at this institution.

AP

(Advanced Placement)

Jacksonville State University awards credit for Advanced Placement courses taken in secondary schools and supplemented by satisfactory scores on the national examinations

of the College Entrance Examination Board (CEEB) Advanced Placement program. A score of 3 or above is required to be considered for the possible award of credit. Prospective students should have their official score report submitted to the Office of Admissions and Records as early as possible for review and possible award of credit.

ACT (American College Test)

Students enrolling in Jacksonville State University who have a composite score of 25 or above should consult the Office of Admissions with regard to credit in areas where the scores are in excess of 25.

The maximum credit to be allowed from ACT test scores will be 10 semester hours.

The ACT may not be repeated in an attempt to receive college credit.

Credit By Challenge

Students enrolled at Jacksonville State University who have an overall GPA of 1.5 (out of a possible 3.0) and who have a 1.5 (out of a possible 3.0) average on this campus may, in any semester in which they are otherwise enrolled for at least two other courses offered in that semester, challenge for credit in courses which are properly oriented to this procedure, where they have sufficient background and/or experience, and where they have prior approval of the Dean of the College in whose area the course is offered. Persons interested in this procedure should consult the Dean of the appropriate school prior to enrolling.

It is necessary that a person seeking to challenge for credit should discuss the challenge with the Dean of the College and the designated instructor prior to enrollment, in the course, and complete the work prior to the mid-term. The grade earned will be the grade on the course and will stand in the same way that a course grade would if taken in normal routine.

Students may not challenge more than ONE course PER SEMESTER and are encouraged to do this only where it facilitates scheduling. Credit by challenge is not allowed during the minimester or summer terms.

Credit by challenge is for undergraduate courses only. Credit by challenge is not permitted for a previously attempted course.



The 1913-14 Bulletin featured this picture of students during a science laboratory session. Students sat at pew-type desks (in foreground) during lectures.

STUDENT REGULATIONS/PROGRAMS

DISCIPLINARY POLICY

Enrollment as a student in the University is a voluntary entrance into the academic community. By such entrance, the student voluntarily assumes obligations of performance and behavior reasonably expected by the University. Much of the disciplinary procedure of the University is authorized to be administered through the Student Government Association (SGA), but the University must and does retain jurisdiction to prevent obstruction to its lawful missions, processes and functions.

Registration as a student at Jacksonville State University implies that students will familiarize themselves with and adhere to the "Regulations Governing Student Conduct," as well as other regulations which apply to a student's particular situation. Students are expected also to conform to the laws of the United States, the State of Alabama, and the City of Jacksonville.

The Dean of Men and the Dean of Women have been designated as enforcement officials for the disciplinary policy.

REGULATIONS GOVERNING STUDENT CONDUCT

The alleged misconduct outlined in Article 1 through Article 7 must occur on University property, at University sponsored events, or at locations where responsibility of action lies with the University.

Article 1. All forms of dishonesty, including cheating, stealing, knowingly furnishing false information to the University, forgery and alteration or use of documents with intent to defraud, and tampering with the mail.

Article 2. Physical abuse of any person on University premises or at University sponsored or supervised functions.

Article 3. Damage to University premises or damage to property of a member of the University community on University premises.

Article 4. Failure to comply with directions or instructions of officials or faculty members while acting in the performance of their duties.

Article 5. Violation of published rules governing residence halls, classrooms or library.

Article 6. Intentional disruption or obstruction of the University in the pursuit of its proper educational purposes including, but not limited to, the following: (a) interference with ingress to and egress from University facilities; (b) interruption of classes or University sponsored activities; (c) public use of language, publication of statements, or circulation of literature evidencing gross disrespect for University authority.

Article 7. Infractions of accepted standards of conduct on campus including, but not limited to the following: (a) public drunkenness and/or being intoxicated; (b) possession or use of illegal drugs or narcotics; (c) possession or use of firearms, weapons, or fireworks; (d) gambling; (e) harrassment, profane or obscene language or conduct in the presence of others; (f) publication or circulation of profane or obscene literature; (g) conduct calculated to unreasonably interfere with the safety, well-being, privacy or opportunity of others to study.

JUDICIAL PROCEDURE

The SGA Senate and University officials may file written disciplinary charges against a student in the office of Dean of Student Affairs. In most instances, a preliminary hearing will be scheduled to determine if the charges can, by mutual consent, be disposed of

without the initiation of formal disciplinary proceedings before the Student Government Association Judicial Court. Any such disposal shall be final and there shall be no subsequent proceedings or appeals.

Appeals cases from the Residence Hall Judicial Court and Student Government Association Traffic Court shall be heard by the Student Government Association Judicial Court. Disciplinary cases which bring great discredit to the academic community and cases which can not be disposed of in a preliminary hearing shall be referred by University officials to the Student Government Association Judicial Court. The Judicial Court is composed of five (5) members — three (3) students appointed by the Student Government Association and two (2) faculty members appointed by the President of the University. Students on Disciplinary Probation who are charged with additional violations of "Regulations Governing Student Conduct" shall automatically be referred to the Student Government Association Judicial Court.

The Student Government Association Judicial Court is required within ten (10) school days from case referral, to present in writing all charges placed against the student and the time and place of the hearing. Hearings shall be conducted in such a manner as to do substantial justice. The University is not required to make a transcript of the testimony given at a hearing but, the University or the accused student may make a transcript. The accused student may be represented by legal counsel which shall be at the expense of the accused student. In extraordinary circumstances, the student may be suspended for a reasonable time pending the scheduling of a hearing before the Student Government Association Judicial Court. The Court shall have the power to place a student on probation for a specific or undetermined duration; suspend the student for a specified duration; or expel the student. Any student, who is suspended or expelled, may within fifteen (15) days appeal to the Board of the President.

ON-CAMPUS HOUSING POLICY

All men and women students in their freshman and sophomore year (those who have earned less than sixty-four semester hours credit) are required to live on campus. Exceptions to this rule are students over the legal age, married students, and those living with their parents, legal guardians or close relatives and commuting to campus.

If the enforcement of these provisions results in a claim of undue hardship, or of the deprivation of a legal right, an exception may be made upon submission by the claimant of a written explanation of the basis of such claim.

DINING FACILITIES

Dining facilities are available, on an optional basis, to all students, faculty, and staff. The dining halls are not open during a holiday recess or between semesters. The last meal at the end of the semester is served following the last scheduled final examination. The first meal served at the end of holidays or vacations will be breakfast of the day classes resume.

Chat 'em Inn Snack Bar services are available in Theron Montgomery Building. Meal plans are available from Hopper Cafeteria.

MOTOR VEHICLES

Any motor vehicle possessed, maintained or operated on the Jacksonville State University campus is required to be registered with the University Police. Vehicles must be registered annually at Registration at the beginning of the Fall Semester or at Registration at the beginning of the semester in which the student first matriculates. If a vehicle is acquired after Registration has been completed, it must immediately be registered with the University Police.

The registration fee is \$5.00 for each vehicle for each academic year. At the time of registration the following documents must be presented: state vehicle registration certificate, a valid driver's license, and satisfactory evidence of automobile liability insurance in compliance with the Alabama Motor Vehicle Law.

Parking and traffic regulations may be obtained at the time that the vehicle is registered or at any time from the University Police Department in the Athletic Field House.

NURSERY SCHOOL

The Nursery school furnishes University students and parents of nursery school age children opportunities for observing the interests and responses of little children in the various activities as well as for assisting in the Nursery School Program. Charge per regular scholastic semester is \$115.00, and for one summer semester, \$40.00 for each child.

PROJECT AHEAD

The Army has a program with this University to help students who want to go to college at the same time they enlist in the Army.

Project AHEAD provides opportunities for the soldier-student to take college courses on or near his/her Army post. Fort McClellan is only 7 miles from the University campus. Credit earned may be transferred to this University provided the credit meets transfer credit requirements. The Army pays up to 75% of the student's tuition while he/she is in the Army. The soldier also receives his/her regular salary, and housing, clothing, medical and dental bills are paid for. See the Project AHEAD counselor or a local Army recruiter for details.

MARINE OFFICER PROGRAMS

Qualified students may apply for an officer program leading to a commission as a second lieutenant in the United States Marine Corps. Commissions are offered in both ground and aviation components. The Platoon Leaders Course (PLC) is offered to freshmen, sophomores, and juniors who attend precommissioning training during the summer. Financial assistance and flight indoctrination programs are available. Qualified seniors attend twelve weeks of training in the Officer Candidate Course (OCC) after graduation. For details, contact the placement office or the Marine Officer Selection Officer when on campus.

CAREER DEVELOPMENT AND COUNSELING SERVICES

The Career Development and Counseling Services (CDCS) offers many opportunities for personal, educational and career counseling for Jacksonville State University students. Self-assessment and testing, a career information library, employability skills workshops and placement services (full and part-time employment) are provided to assist students in making sound career plans in order to enhance their academic program and entry into the world of work.

All students, student spouses, alumni and pre-college students are encouraged to avail themselves of these services. There is no charge for services rendered and all records are held in strictest confidence. Students may seek information or appointments either by telephoning or by visiting the CDCS, Jacksonville State University, Jacksonville, AL 36265.

COOPERATIVE EDUCATION PROGRAM

The Cooperative Education Program provides opportunities for students to alternate semesters of academic study with semesters of professional work experience in industry, business, and government. Approval by appropriate Dean is necessary for any academic credit from cooperative education. Additional information may be secured from the Cooperative Education Office.

STUDENT HEALTH CENTER

Out-patient health services are available to all JSU students at the Student Health Center located on campus. Services offered include: Physical exams, hypertensive screening, birth control services, treatment for venereal disease, emergency first-aid services, and health counseling.

An in-house physician is available to the students for the treatment of all types of health problems. The facility is open 8:00-4:30 daily with a nurse on-call after duty hours.

CENTER FOR INDIVIDUALIZED INSTRUCTION

The Center for Individualized Instruction (CII) provides flexible modes of instruction to meet unique needs of individual students. Alternate instructional strategies used in the CII include the Personalized System of Instruction (PSI), computer-assisted instruction, computer-assisted testing, and precision teaching. Learning Skills courses, PSI sections of various academic disciplines, and voluntary services are offered. Services are designed to increase students' basic skills and to enable students to develop and maintain high standards of performance.

One CII service, the Reading Lab is open to all university students. Individualized instruction programs are designed to meet specific reading needs and to promote personal goals. Speed reading, college vocabulary, improved comprehension, and study skills are all areas which are addressed in the Reading Lab. Emphasis is on carry-over skills, so that the practice in the Reading Lab can be applied to reading and studying informational-type materials in the student's textbooks.

The CII is located on the third floor of Bibb Graves Hall.

AGING STUDIES PROGRAM

The Aging Studies Program is a multidisciplinary program designed to train students in the field of Gerontology. Through a combination of core courses, curriculum electives and practicum experiences, students may select one of the three training tracts most appropriate for their needs. Students may select a Sociology major with a specialization in Gerontology (see Sociology Department). Students may select an academic minor in Gerontology through the Department of Sociology.

The Aging Studies Program also offers a Certificate in Gerontology. In order to be accepted into the certificate program, students must submit an application to the Aging Studies Program. This application must be accompanied by academic credentials in support of the application. Requirements for the certificate are the same as those required for the completion of the Gerontology minor (See Sociology Department) plus 3-6 hours of approved practicum courses.

The program is also designed to offer a certificate to non-matriculating students who wish to further their knowledge in the field of Gerontology. Admission to the certificate program requires that all students meet requirements for admission to the University in addition to those of the Aging Studies Program. For additional information regarding the Gerontology program, see the Sociology Department Head.

THE INTERNATIONAL HOUSE PROGRAM

John R. Stewart, Director

The International House Program which began in 1946 is approved by the Department of State as a cultural exchange program.

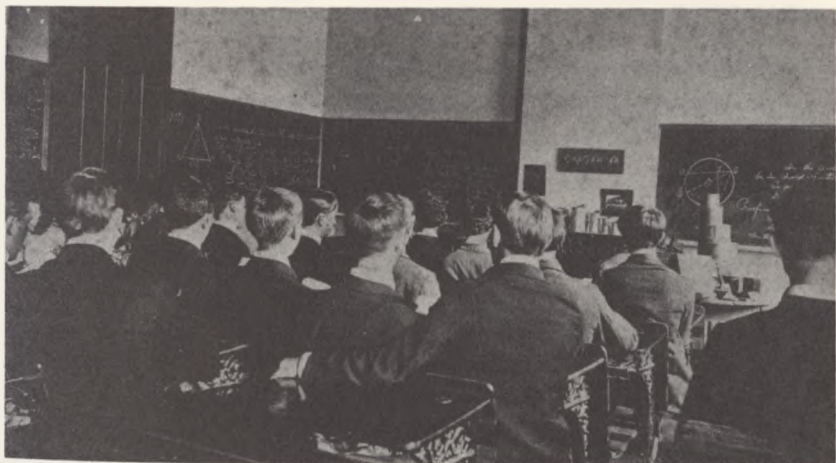
Each year forty students are accepted as members of this unique undertaking. Approximately one-half of the members are foreign students; and the remainder are native born Americans. Members of the International House Program must be enrolled as full time students in the University. Students to be accepted for membership do not have to be enrolled in a foreign language. All members reside at The International House. Each foreign student has an American student for a roommate. There are no special fees charged for membership.

In addition to the academic pursuits, members take part in a series of forums, seminars and social events — designed to provide opportunities for information, understanding and appreciation of the cultures represented. Students also appear before many school, church, community and civic organizations to share details of their cultures — as well as impressions of Alabama and the United States.

The program places special emphasis on:

- a. Knowledge of the culture of countries of the world.
- b. Understanding and appreciation of different cultural values and systems.
- c. Coordinating the activities of the students — American and foreign — into the total academic and social life of the University and community.
- d. Providing opportunities for dialogue and discussion among the members concerning topics related to the political, social, economic, spiritual and human relations aspects of the countries represented.

Persons interested in applying for membership should write — Director — International House Program, Jacksonville State University, Jacksonville, AL 36265.



This attentive 1911 group of State Normal School students awaits their mathematics instructor to arrive and begin the class. James G. Ryals, Jr., the first president of the college, also taught mathematics.

SUMMARY OF DEGREES

The University offers three undergraduate degrees. The following section lists the various major areas which may be selected in each of the degrees.

I. BACHELOR OF ARTS

1. The 128 hours required for the B.A. degree must include the following:
 - a. 14 hours in English

English 101, 102, 141	8 hours
English 201, 202, or	
English 301, 302 or 331, 332	6 hours
 - b. 12 hours in social sciences (2 areas suggested)

History 201, 202* required	6 hours
Political Science, Sociology, Economics, Geography*	6 hours
 - c. 12 to 16 hours in laboratory science (a complete year of each of two different basic sciences including labs are required). Acceptable sciences are: Biology 101, 102, 103, 104; Botany 221, 222; Chemistry 105, 106, 107, 108; General Sciences 221, 222, 321, 322; Geology 241, 242; Geography 110, 111; Physics 101, 101L, 102, 102L, or 211, 211L, 212, 212L; Zoology 241, 242. Modern College Algebra MS 102 and Plane Trigonometry MS 103 or Modern College Algebra MS 102 and Finite Mathematics MS 104 may be used for one year of science. It is recommended that the student consult with his/her advisor or dean regarding acceptable math/science requirements.
 - d. 3 hours of Psychology 201.
 - e. 12 hours in a foreign language** (French, Spanish or German) only for those taking a major in chemistry, English, history or physics.
 - f. 1 hour of Instructional Media 101.
2. Majors for the B.A. degree must be selected from any field in which majors are offered with the exceptions of physical education, office administration and other business curricula, science composite, instructional media, home economics, curricula, law enforcement, military science, education, and some teaching fields.*** Minors may be selected from any fields in which minors are offered. However, those taking a minor in special education must meet requirements to admission to and retention in teacher education.

BACHELOR OF ARTS WITH A MAJOR IN GENERAL STUDIES

Jacksonville State University offers a Bachelor of Arts with a major in General Studies. This degree program tends to meet the academic needs not ordinarily available in other degree programs of this University. In addition to the required University core curriculum, this degree is designed to allow the student more freedom in selecting a course of study. For further information please confer with the Dean of the College of Science and Mathematics or the Dean of the College of Humanities and Social Sciences, depending upon the concentration area.

A total of 128 semester hours are required for the Bachelor of Arts with a major in General Studies. Of the 128 semester hours, 52 hours must be at the Junior and Senior level, and a minimum of 32 semester hours must be completed in residence at Jacksonville

* A student majoring in a social science discipline must take courses from another social science discipline to meet this requirement.

** A student wishing a waiver of FL 101 & 102 must pass the waiver exam. He/she must then complete six (6) hours (201, 202) in the same language.

*** Teaching fields offered in place of the majors for the BS in Education may or may not meet BA degree requirements. In addition, several teaching fields are offered only for those pursuing education degrees. The student is cautioned to check with his/her department head or Mr. R. Eugene Jones, College of Education, prior to the selection of a major, should teacher certification be desired.

State University. There are five subject areas offered in the General Studies Program with a minimum number of hours required in each area. In addition, a student must meet the University's basic curriculum requirements and concentrate in one of the designated areas listed below*. A student must maintain a minimum 1.00 GPA in his/her area of concentration in order to meet graduation requirements.

BACHELOR OF ARTS WITH A MAJOR IN GENERAL STUDIES

	MINIMUM SEMESTER HOURS	SEMESTER HOURS FOR CONCENTRATION
English Composition and Communications	15	42
Literature and Languages	12	
Humanities**	30	42
Science and Mathematics	12	21
Behavioral Sciences***	18	23

II. BACHELOR OF SCIENCE

The requirements for the Bachelor of Science degree are the same as those for the Bachelor of Arts degree, with the following exceptions:

1. Where the major is chemistry and the minor is biology or mathematics, a foreign language is highly recommended. However, the taking of a foreign language is encouraged in all programs.
2. Majors for the B.S. degree may be selected from the following fields: dietetics, finance, biology, clothing, economics, food services, recreation, home economics, management, marketing, accounting, office administration, computer science, chemistry, mathematics, physics, nursing, geography, sociology, psychology, law enforcement, corrections, forensic science and military science.

With the exception of a student majoring in recreation, nursing, and dietetics, a student may select a minor from any field in which a minor is offered.

Students may not take as a second (double) major a subject not permitted as a major in this degree.

Students majoring in recreation may not select a physical education minor.

Students majoring in the area of home economics may not select a home economics minor.

III. BACHELOR OF SCIENCE IN EDUCATION

The requirements for various degrees in education vary considerably. See the section entitled College of Education for the requirements of degrees in Early Childhood Education, Elementary Education, Secondary Education, Physical Education, Health Education and Special Education. Information regarding teaching fields may be found under the respective department or college.

Please note that the requirements for graduation, including the Grading System and General Requirements set forth on pages 63-65 also apply to teacher education degree programs.

*There are four areas in which a student may concentrate: the combined area of English Composition and Communications and Literature and Languages; the area of the Humanities; the area of Science and Mathematics; and the area of Behavioral Sciences.

**An additional requirement of work in the area of the Humanities for the minimal requirement and/or to concentrate in the area is: A student must have course work in at least *three* subjects in the area of the Humanities. He/she may select from: Art; Economics; Geography; History; Music; Philosophy (not Psychology); and Political Science.

***The area of Behavioral Sciences includes Psychology and Sociology.

SUMMARY OF REQUIREMENTS FOR DEGREES

BACHELOR OF SCIENCE DEGREE¹

Instructional Media 101	1
English 101, 102, 141, 201 or 301, 202 or 302	14
History 201, 202	6
Social Science Electives.....	6
² Laboratory Science (or Mathematics/Science).....	12-16
Psychology 201.....	3
Approved Elective or Major and Minor	82-86
<hr/>	
Total	128(a)
(a) Of the total hours, 52 must be numbered 300 or above.	

¹See major and minor options under General Requirements for Bachelor of Science degree.

²12 to 16 hours in laboratory science (a complete year of each of two different basic sciences including labs are required.) Acceptable sciences are: Biology 101, 102, 103, 104; Botany 221, 222; Chemistry 105, 106, 107, 108; General Science 221, 222, 321, 322; Geology 241, 242; Geography 110, 111; Physics 101, 101L, 102, 102L or 211, 211L, 212, 212L; Zoology 241, 242. Modern College Algebra MS 102 and Plane Trigonometry MS 103 or Modern College Algebra MS 102 and Finite Mathematics MS 104 may be used for one year of science. It is recommended that the student consult with his/her advisor or dean regarding acceptable math/science requirements.

BACHELOR OF ARTS DEGREE

Instructional Media 101	1
English 101, 102, 141, 201 or 301, 202 or 302	14
History 201, 202	6
Social Science Electives.....	6
¹ Laboratory Science (or Mathematics/Science).....	12-16
Psychology 201.....	3
² Modern Language	12
Approved Electives or Major and Minor.....	70-74
<hr/>	
Total	128(a)
(a) Of the total hours, 52 must be numbered 300 or above.	

¹12 to 16 hours in laboratory science (a complete year of two different basic sciences including labs are required.) Acceptable sciences are: Biology 101, 102, 103, 104; Botany 221, 222; Chemistry 105, 106, 107, 108; General Science 221, 222, 321, 322; Geology 241, 242; Geography 110, 111; Physics 101, 101L, 102, 102L or 211, 211L, 212, 212L; Zoology 241, 242. Modern College Algebra MS 102 and Plane Trigonometry MS 103 or Modern College Algebra MS 102 and Finite Mathematics MS 104 may be used for one year of science. It is recommended that the student consult with his/her advisor or dean regarding acceptable math/science requirements.

²Required only when major is one of the following: chemistry, English, history, or physics.

PRE-AGRICULTURE

Students interested in pursuing one of the various pre-agricultural curricula should consult the catalogue of the school which they plan to attend.

In general, however, such students should schedule General Zoology (Biology 241, 242) and General Botany (Biology 221, 222); and in certain phases of agriculture, Comparative Vertebrate Anatomy (Biology 320).

BASIC ENGINEERING

Students entering basic engineering will consult their engineering adviser and the program outlined under the Department of Engineering.

PRE-MEDICAL, PRE-DENTAL, PRE-VETERINARY, PRE-PHARMACY, AND PARAMEDICAL CURRICULA

The health career fields of medicine¹, dentistry, optometry, veterinary medicine, pharmacy² and a number of paramedical disciplines, constitute one of the most rewarding and challenging professions—the Health Sciences. The health oriented professional schools urge students to get a broad general education which will contribute to the total person.

Jacksonville State University maintains a Health Careers Committee in order to work with students in the pre-health professions. All students considering these pre-health professions should confer with the Health Careers Committee at the time of registration in order to receive instructions and a packet of information describing particular fields of study and a general outline of required and recommended courses. It is very important and necessary that the student maintains a close working relationship with the Health Careers Committee in order to receive maximum assistance.

Students seeking to enter any of these programs should contact Dr. Fred A. Gant, Health Careers Office, Room 130 Martin Hall, or Dr. Frank Salter, Room 134 Ayers Hall, Jacksonville State University.

¹Students should consult the pre-medical advisor in the Department of Biology.

²Pre-pharmacy students who expect to finish their two-year requirements at Jacksonville should take Physics 101, 101L, 102 and 102L, Chemistry 105, 106, 107, 108, 231, 232, Math 103, 141 and Biology 101, 102, 103, and 104.

MEDICAL TECHNOLOGY

Students pursuing a career in Medical Technology will meet all the requirements for internship application, as prescribed by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), by completing a Biology Major with the Laboratory Biology Option (see Option V - Department of Biology). Students should see Dr. Thomas Cochis, Medical Technology Advisor, concerning their program of study.

PRE-LEGAL COURSES

Nearly all accredited law schools now require that a student have an undergraduate degree in order to enter law school. Formerly, law schools allowed admission after three years of undergraduate study, but almost all law schools now require that beginning students have a broader educational background than can be secured with three years of college. The University of Alabama and Samford University law schools require a baccalaureate degree prior to admission.

There is no single prescribed course of study which pre-law students must follow in order to gain admission to law school. The course most generally recommended is a Bachelor of Arts degree with a major in some field of social science. Majors in political science and economics are especially recommended as they provide the lawyer with an excellent background for relations with government and business.

In addition to having an undergraduate degree, pre-law students are required to take the Law School Admission Test (LSAT) prior to entering law school. This should be done in the student's senior year. Application forms for taking the LSAT may be secured from the Chairman of the Political Science Department, Martin Hall.

BACHELOR OF ARTS DEGREE

Major in Political Science and a Minor in Economics
(Suggested Program)

Instructional Media 101	1
English 101, 102, 141; 201, 202, or 301, 302	14
History 201, 202	6
Psychology 201	3
¹ Mathematics 102, 103	6
² Biology, Chemistry, Physics, Geography, Geology	8
Political Science 201, 202	6
Political Science 385 or 386, 433, 451 or 452	9
Political Science Electives	15
Economics 220, 221, 300 or 301 or 302, 303, 321 or 322	15
Economics Electives	9
Finance 364	3
General Electives	33
Total	128(a)

(a) Of the total hours, 52 must be numbered 300 or above.

¹ General Science 221, 222 may be substituted for Mathematics 102, 103 if Biology is the other physical science.

² Both courses in same area of science.



Even during a class in woodworking these 1904 students were formally dressed. Founded in 1883, the State Normal School was elevated to a four year State Teachers College in 1929.

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

This college offers the Bachelor of Science degree with majors in the following areas of study: Accounting, Finance, Management, Marketing, Office Administration, and Computer Science. The college also offers courses for a teaching degree in the area of Business and Office Education for those who are planning to teach business subjects in high school or an area vocational school. Others may take business courses as electives.

Business majors may choose from the following curricula:

1. B.S. degree with a major in accounting, finance, computer science, management, marketing, office administration. A minor may be selected from any field within the University in which a minor is offered, except business administration.
2. B.S. degree in Education with Business and Office Education as a teaching field. No minor is required with this degree and the student will be eligible for a Class B Secondary Professional Certificate, upon completion of the state-approved program.

The College of Commerce and Business Administration offers minors in accounting, finance, business administration, computer science, real estate, management, marketing, office administration, and statistics and quantitative methods. Majors in management may minor in food services and majors in marketing may minor in clothing in specialized curricula. A special major is available in Logistics Management.

General University Requirements (normally taken prior to business courses):

Instructional Media 101	1
English 101, 102, 141	8
Any six hours of Literature from the following:	
English 201, 202; or English 301, 302; or	
English 331, 332, or any first and second semester combination	
of these courses.....	6
Social Science, twelve hours:	
History 201, 202	6
Economics 220, 221	6 (a)
Psychology 201.....	3
Science/Math	
Laboratory science (two semesters of the same science).....	6-10 (b)
Math 102.....	3
Math 122 or 141.....	3 (c)
Total	42-46

(a) Office Administration majors are required to take Economics 221 and Political Science 201.

(b) Course hours will vary depending on whether or not a student takes a 3, 4, or 5 hour laboratory science class.

(c) Students minoring in Statistics and Quantitative Methods are required to take Mathematics 141 in lieu of Mathematics 122.

Business Administration Core Requirements:

It is strongly recommended that students complete all these requirements prior to taking 400 level business courses; students with double majors who are taking a business discipline as the second major must also complete the Business Administration Core Requirements.

Accounting 391, 392	6
Finance 312, 363	6
Statistics and Quantitative Methods 360.....	3
Marketing 376	3
Management 383.....	3
Computer Science 201	3
Office Administration 350.....	3

Total	27
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Approved Minor.....	18
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*Departmental Requirements for Majors:***ACCOUNTING (ACC):**

Accounting 393, 394, 471, 472, 473, 477	18
Accounting Electives (300-400 level)	9
Business Law 484	3

Total	30
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FINANCE (FIN):

Finance 320, 341, 361, 441, 474	15
Finance Electives	15

Total	30
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COMPUTER SCIENCE (BCS):

Computer Science 250, 252, 310, 411, 488	15
Computer Science Electives (300-400 level)	9
Computer Science Electives	6

Total	30
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MANAGEMENT (MGT):

General Management Option:

MGT 362, 469, 470; MGT 390, or BCS 411; MGT 491	15
Management Electives (300-400 level).....	15

Total	30
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Human Resources Management Option:

MGT 362, 468, 469, 470, 490, 491.....	18
Management Electives (300-400 level).....	9
Psychology 370.....	3

Total	30
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Production Management Option:

MGT 390, 469, 470, 491.....	12
Management Electives (300-400 level).....	9
Statistics and Quantitative Methods 361, 390.....	6
Computer Science 411.....	3
Total	30

MARKETING (MKT):

Marketing 377, 378, 450, 495, 497.....	15
ST 361 or EC 482 or BCS 495.....	3
Marketing Electives (300-400 level).....	12
Total	30

OFFICE ADMINISTRATION (OA):

*OA 201, 301.....	6
*OA 110, 210 (or 120, 220) and 315.....	9
OA 285, 387, 484.....	9
OA Electives (300-400 level).....	6
Total	30

General Electives	7-11
Bachelor of Science Degree—Total Hours	128

*OA 201, 110, 210, 120, 220 are optional depending upon student's background. If either is waived, office administration electives (OA) must be chosen in lieu of these courses. Transfer students must comply with General Requirements on pages 63 and 64.

MINORS

A minor in Accounting consists of at least eighteen hours of Accounting courses, including 391*, 392*, 393, 396, 471, and 472.

A minor in Finance consists of at least eighteen hours of Finance courses, including 312, 320, 361, 441, 474 and three hours of a Finance elective . . . business majors must substitute another Finance course for 312.

A minor in Real Estate (within the Finance Department) consists of at least eighteen hours of course work, including 341, 343, 344, 364, 440, and one of the following: 211, 320, 442, or 474. Finance majors may substitute any Finance course for a duplicated course requirement.

A minor in Computer Science consists of at least eighteen hours Computer Science courses including BCS 201*, 250, 252, 310, 411 and 488.

A minor in Statistics and Quantitative Methods consists of at least eighteen hours of Statistics and Quantitative Methods courses including: ST 360*, 361, 390, 401, 450 and 490.

A minor in Business Administration consists of at least twenty-four hours including: ACC 391, FIN 312, FIN 363, BCS 201, MGT 383, MKT 376, and any two of the following: ACC 392, OA 350, OA 201, or ST 360. Students are also expected to take EC 221 as one of their social science electives. This minor is available to non-business majors only.

A minor in Management consists of at least eighteen hours of Management courses including: 383*, 362, 469, 470, and six hours of MGT electives (300-400 level).

* Business majors must substitute higher level courses in same discipline.

A minor in Marketing consists of at least eighteen hours of Marketing courses including: 376*, 377, 378, 450, 495, and 497. Economics 221 is a required prerequisite, but is not included.

A minor in Office Administration consists of at least eighteen hours of Office Administration courses including: OA 201 or 301**; OA 210, 220, or 315**; OA 285, 387, 484; and three hours of Office Administration electives (300-400 level).

* Business majors must substitute higher level courses in same discipline.

** Depends on student's background.

The B.S. degree in Education with Business and Office Education as a teaching field and the Certificate in Accounting, and other special degrees and their curriculum outlines are listed on the following pages. Jacksonville State University reserves the right to alter any of the prior programs in the College of Commerce and Business Administration at any time if it will improve the student's general knowledge in the subject matter of his/her major.

BACHELOR OF SCIENCE DEGREE IN EDUCATION

Teaching Field in Business and Office Education (State-Approved Program)

GENERAL STUDIES: (51 semester hours as follows)

HUMANITIES: 15 sem. hrs. required

EH 101, 102	6
EH 141	2
EH 201 or 202 and English 301 or 302	6
IM 101	1

Total 15

SOCIAL SCIENCES: 12 sem. hrs. required

EC 220 or 221 or 224	3
HY 101, 102 or 201, 202	6
PSC 201 or 202; or PSY 201; or SY 221 or 310; or GY 241	3

Total 12

NATURAL AND PHYSICAL SCIENCES, INCLUDING

MATHEMATICS: 12 sem. hrs. required

BY 101, 102, 103, 104, 221, 222, 241, 242	3-6
Physical Science (can be selected from CY 105, 106, 107, 108; GS 221, 222*; GY 110, 111; PHS 101, 102; PHS 101L, 102L)	3-6
MS 101, 102, 103, 104, 133, 141, or 142	3-6

Total 12

COURSES SELECTED FROM AT LEAST TWO OF THE
ABOVE THREE MAJOR AREAS (HUMANITIES; SOCIAL
SCIENCES; NATURAL AND PHYSICAL SCIENCES,
INCLUDING MATHEMATICS): 9 sem. hrs. required

Humanities Electives (must include one course in Art, Music, or Drama)	1-8
Social Science Electives	0-8
Science/Math Electives	0-8

Total 9

HEALTH EDUCATION AND PHYSICAL EDUCATION:

3 sem. hrs. required
 PE 101 3

Total 3
 Total General Studies 51

PROFESSIONAL STUDIES: (33 semester hours as follows)

HUMANISTIC AND BEHAVIORAL STUDIES:

12 sem. hrs. required
 SPE 300 3
 EPY 332 3
 EPY 431 3
 ED 431 3

Total 12

CURRICULUM AND TEACHING, MEDIA: 6 sem. hrs. required

VBE 400 3
 VBE 404 3

Total 6

TEACHING READING IN CONTENT AREAS:

3 sem. hrs. required
 ED 383 3

Total 3

EVALUATION OF TEACHING AND LEARNING:

3 sem. hrs. required
 EPY 442 3

Total 3

INTERNSHIP: 9 sem. hrs. required

ED 486 9

Total 9

Total Professional Studies 33

TEACHING AREA: BUSINESS AND OFFICE EDUCATION:

(48 semester hours as follows)

REQUIRED: 42 sem. hrs.
 OA 201** 3
 OA 301 3
 OA 210 or 220** 3
 OA 315 3
 OA 285 3
 OA 350 3
 OA 387 3
 OA 484 3
 OA 489 3
 VBE 402 3
 ACC 391 and 392 6
 FIN 363 3
 BCS 201 3

Total 42

VBE or OA ELECTIVE SELECTED FROM THE FOLLOWING:

3 sem. hrs. required

VBE 317, 318, 319, or 403; OA 406, 482,
485, 486, 490, 491, 495, 496..... 3

Total 3

BUSINESS ELECTIVE SELECTED FROM THE FOLLOWING:

3 sem. hrs. required

MGT 383 or FIN 312 or ST 360 or MKT 376 3

Total 3

Total Teaching Area 48

TOTAL HOURS IN PROGRAM 132

*GS 221 or 222 are not permitted for students choosing a teaching field in biology, chemistry, physics, or general science.

**OA 201 and/or 210 or 220 may be waived if the student possesses sufficient skill. If waived, an OA or VBE elective must be chosen from the OA or VBE electives listed in the Teaching Area section.

BACHELOR OF SCIENCE DEGREE**Major in Management and Minor in Foods & Nutrition**

Instructional Media 101	1
Psychology 201.....	3
English 101, 102, 141, 201, and 202 (or 301 and 302 or 331 and 332).....	14
History 201, 202	6
Economics 220, 221.....	6
Home Economics 122, 221, 322, 422, 424.....	15
Home Economics (Foods) Elective	3
Chemistry 105, 106, 107, 108.....	10
Mathematics 102, 122	6
Business Courses:	
CS 201; OA 350; FIN 363; ST 360	12
ACC 391, 392	6
MKT 376	3
FIN 312	3
Management Courses:	
383, 362, 469, 470, 491	15
One of the following courses: EC 316, ST 390, BCS 411, MGT 468...	3
Management Electives	15
¹ General and/or Minor Electives.....	7
Total	128

(a) Of the total hours, 52 must be numbered 300 or above.

¹General electives may be in any field, non-business, provided the total subjects taken in related subject areas do not exceed 60 hours.

BACHELOR OF SCIENCE DEGREE
Major in Logistics Management and Minor in Economics

Psychology 201.....	3
English 101, 102, 141, 201 and 202 or 301 and 302.....	14
History 201, 202	6
Political Science 201.....	3
Sociology 221	3
Economics 220, 221, 301, 302, 320, 321, 485, or 54FA.....	21
Economics Elective	3
Geography 241	3
Mathematics 102, 122	6
BCS 201; OA 350; ST 360 and 361	12
Accounting 391, 392, 471.....	9
Marketing 376, 463, 497	9
Management 383, 469, 470, 491	12
Logistics Management	9
Maintenance Management 8AF3	3
Defense Depot Operations Management 8BF10.....	3
Defense Inventory Management 8BF11.....	3
Logistic Management Electives	6
Business Electives*	9
Total	128

*May be taken in any department in the school of business (300 or above numbered courses) or from Logistics Management Courses.

Logistic Management Electives (Twelve hours from the following)*	
Defense International Logistics Management Course 8AF12.....	2
Defense Advance Inventory Management 8BF12.....	3
Management of the Quality Function 8DF18	2
Logistics Support Design Management Course (Unnumbered).....	3
Defense Procurement Management 8/D-4310/4320	3
Defense Advanced Procurement Management Course 8DF12	2
Defense Specification Management Course 8DF1	2
Army Integrated Material Systems Management 8AF16.....	3
Defense Advanced Disposal Management Course 8BF17	2
Cost Estimating Techniques for System Acquisition (Unnumbered).....	2
Program of Instruction for Life Cycle Cost Analysis of Weapon Systems	2
Operations Research/System Analysis Executive Course.....	3

BACHELOR OF SCIENCE DEGREE
Major in Marketing and Minor in Clothing

Instructional Media 101	1
Psychology 201.....	3
English 101, 102, 141, (201 and 202) or (301 and 302) or (331 and 332).....	14
History 201, 202	6
Economics 220, 221.....	9
Home Economics 130, 131, 232, 331 or 431	12
Home Economics (Clothing) Electives.....	6
General Science 221, 222	6-10(a)
Mathematics 102, 122	6

Business Courses:	
BCS 201; ST 360	6
ACC 391, 392	
MGT 383; OA 350; FIN 363	9
FIN 312	3
Marketing Courses:	
376, 377, 461, 488, 494, 495, 497	21
Marketing Electives	12
¹ General and/or minor electives	11-7
Total	128(b)

(a) Or Biology 101, 102, 103, 104; or Chemistry 105, 106, 107, 108; or Physics 101, 101L, 102, 102L; or Geography 110, 111; or Geology 241, 242.

(b) Of the total hours, 52 must be numbered 300 or above.

¹ General electives may be in any field, non-business, provided the total subjects taken in related subject areas do not exceed 60 hours.

CERTIFICATE IN ACCOUNTING

Many individuals desire to change career goals after receiving a bachelor's degree. The field of accounting is frequently selected for the career change. To sit for the CPA exam in Alabama, the State Board of Accountancy requires that an individual have a bachelor's degree (it need not be in accounting) and as many credit hours in accounting as the student would have had if he/she had majored in accounting. The Certificate in Accounting program provides the accounting requirements to satisfy state regulations.

Certificate in Accounting Requirements:

Introduction to Data Processing (BCS 201)	3
Business Law I and II (FIN 363, 484)	6
Principles of Accounting (ACC 391, 392)	6
Intermediate Accounting (ACC 393, 394)	6
Cost Accounting (ACC 471)	3
Income Tax Accounting (ACC 472)	3
Advanced Accounting (ACC 473)	3
Auditing (ACC 477)	3
Accounting Theory (ACC 478)	3
Total	36

PRACTICUM COURSES

Prerequisites are senior status, consent of the appropriate department head, and approval of the Dean of the College. Practicum experience will involve a special problem in a practical work situation, over and above the student's normal work duties (if student is working part-time or full-time). Practicum assignment must be outlined by student and planned well in advance of the semester in which the practicum is to be undertaken. The practicum will involve the presentation of a formal paper directed by the supervising professor. Paper may be presented to a group of professors and/or other business students. Detailed practicum guidelines may be obtained by contacting individual departments within the College of Commerce and Business Administration.

DEPARTMENT OF ACCOUNTING (ACC)

Parker Granger: Department Head
Associate Professor: P. Granger
Instructors: Bell, Berry, Dean, Kirby, Trathen,
Tredaway, Turner

DESCRIPTION OF COURSES

391, 392. Principles of Accounting (I) (II) (3) (3). Two semesters. The basic theory, concepts and practices of financial accounting in business organizations including an introduction to computer-based methods.

393, 394. Intermediate Accounting (I) (II) (3) (3). Prerequisite: Accounting 392 and Mathematics 122. Detailed study of the accounting processes and analysis of balance sheet accounts with the application of accounting theory through intensive problem solutions.

396. Managerial Accounting (3). Prerequisite: Accounting 392. The interaction between accounting and management; accounting data and its use by management in reaching decisions and evaluating performance.

398. Governmental Accounting (3). Prerequisites: Accounting 393 or 396. Accounting procedures of all governmental units, including non-profit service organizations. Analysis of current problems in fund accounting.

471. Cost Accounting (3). Prerequisite: Accounting 393. An introduction to cost accounting through a study of the principles of job-order, process, standard and variable costing.

472. Income Tax Accounting (3). Federal and state income tax laws as they apply to individuals. Training in the interpretation of regulations and in the preparation of various income tax returns.

473. Advanced Accounting (I) (3). Prerequisite: Accounting 393. Specialized accounting procedures. Topics include business combinations, partnership accounting, and local government accounting.

474. Advanced Accounting (II) (3). Prerequisite: Accounting 393. Specialized accounting procedures. Topics include fiduciary accounting, segmental and interim reporting, and the impact of changing prices and foreign operations on financial reports and other related topics.

475. Advanced Cost Accounting (3). Prerequisite: Accounting 471. Cost Accounting with emphasis on capital budgeting, quantitative techniques, and relevant costs as a tool in management decisions.

476. Advanced Income Tax Accounting (3). Prerequisite: Accounting 472 or equivalent. Advanced federal tax concepts, including income taxation of corporations, partnerships, estates & trusts. Also includes a study of gift and estate taxes. Heavily oriented toward research in federal taxation.

477. Auditing (3). Prerequisite: Accounting 394 and 473. Open only to seniors majoring in accounting. Basic auditing principles and procedures as applied to trading and manufacturing concerns and application of the procedures through an audit practice case.

478. Accounting Theory (3). Prerequisite: Accounting 394. An analysis of historical and current accounting concepts.

489. Accounting Practicum (3). Prerequisite: Senior status, consent of the Department of Accounting Head, and approval of the Dean of the College of Commerce and Business Administration. Practical experience in the field of accounting.

494. Professional Accounting Review (3). Prerequisite: 24 hours of accounting including Accounting Principles. Intensive review of accounting theory and practice focused on the requirements of a professional accounting examinations such as CPA, CMA, and CIA exam.

497. Seminar in Accounting (3). Prerequisite: Senior standing and minimum of 18 hours of accounting. Critical issues and topics in accounting are examined.

498. CPA Internship (5). Prerequisite: Approval of the Dean of the College of Commerce and Business Administration, and consent of the Department of Accounting Head. Intensive practical experience in accounting obtained at an approved regional or national accounting organization. Arrangements for this course must be made in advance through the Head, Department of Accounting.

DEPARTMENT OF FINANCE AND REAL ESTATE (FIN)

L. Brown: Department Head

Associate Professors: Brown, Fielding, Greene, Jones

Instructors: Padgham, Scroggins

DESCRIPTION OF COURSES

211. Personal Finance (3). A course designed to assist in the financial problems which people ordinarily encounter in managing their personal affairs. Includes financial planning; use of credit; budgeting; home ownership; investments; effective use of financial institutions; tax problems; etc. Finance majors may not include both FIN 211 and FIN 308 as finance electives.

308. The Financial Environment of the Family (3). Prerequisite: Permission of the department head. This course requires the pre-arrangement of male-female teams. Each team will initiate a "marriage contract" and undertake a series of financial activities. Some of the problems encountered will include: Financing a home or apartment; budgeting for day-to-day, month-to-month living expenses; financing the cost of having a "child"—from related cost of birth through a college education; experiencing the financial ramifications of a death in the family; satisfying retirement needs; and financing a divorce. Banking and Finance majors may not include both FIN 211 and FIN 308 as finance electives.

312. Principles of Finance (3). A survey course providing exposure to the entire field of finance. Coverage includes business finance; governmental finance; financial institutions; and personal finance.

320. Financial Management I (3). Prerequisite: FIN 312. The organization, financing, and management of a business organization. Topics cover financial instruments; management and control of working capital and fixed assets; leverage; capital budgeting; costs of capital; and evaluation of financial performance.

331. Credit Management (3). The place of credit in the market structure; sources of credit information; retail and mercantile credit principles; basis of new credit; types of credit; credit analysis and appraisal; credit controls; collection procedures; and legal remedies of creditors.

341. Principles of Real Estate (3). Real estate ownership interests, legal processes, financing instruments and institutions; consideration of subdividing and zoning, federal housing litigation, and taxation.

343. Real Estate Appraisal (3). Prerequisite: FIN 341. Analysis of neighborhood, sites and buildings; collection, analysis, interpretation of cost and market data; depreciation, capitalization rates; correlation of value factors and the writing of appraisal reports. (may not be counted as a finance elective . . . restricted to the real estate minor).

344. Legal Aspects of Real Estate Transactions (3). Prerequisite: FIN 341. Estates in land, purchase and sales contracts, conveyances, mortgages and trust deed transactions, property taxes, landlord and tenant, wills and inheritance. (may not be counted as a finance elective . . . restricted to the real estate minor).

361. Commercial Banking I (3). The commercial bank as a business enterprise; principles of organization and operation; regulatory framework; and problems of competition and growth.

363. Business Law I (3). Introduction to business law and its objectives, the law of contracts, and government regulation of business and labor. (Formerly MGT 363) . . . may not be counted as a finance elective or an elective in the real estate minor.

364. Insurance (3). A survey of the insurance coverages available and the use of insurance by business. Covers the basic principles of risk.

397. Financial Institutions and Markets (3). Analysis of the operating policies of financial institutions and the effect upon the structure of the capital and money markets.

410. Wills, Estates, and Trusts (3). A study of the basic legal and financial principles and practices involved in the planning and administration of wills, estates, and trusts. Application of the needs approach to estate planning.

434. International Finance. (3). Problems in foreign operations and other aspects of multi-national business; the role of international money and capital markets; financing trade and economic development; and the analysis of legal and financial systems exercising influences on foreign business activities.

440. Real Estate Finance (3). Prerequisite: FIN 341. Institutions, instruments and mortgage banking practices. Emphasis on analyzing mortgage risks, loan terms and rates, servicing, foreclosure, sources of mortgage credit and government influences. (Formerly IRE 441).

441. Financial Management II (3). Prerequisite: FIN 320. A study of decision making in the financial environment. Profit planning and control, financing strategies, financial analysis, financial policy-decision alternatives, and related topics are emphasized.

442. Real Estate Investment Analysis and Taxation (3). Prerequisite: FIN 341. Financial and Taxation factors affecting investments in real property. Special attention to federal tax regulations, alternate financing arrangements, timing of transactions, and the impact of these factors on yields and yield rates; real estate investment trusts. (may not be counted as a finance elective . . . restricted to the real estate minor).

462. Commercial Banking II (3). Prerequisite: FIN 361 or equivalent. Management of commercial banks, investment and loan portfolio policies; loan appraisals; relation of loans to reserve requirements; supervision; regulation and examination; and evaluation of the prevailing trends in banking policy.

471. Financial Management Simulation (3). Prerequisite: Senior classification. A seminar course simulating the financial operations of a complex business enterprise. Student teams operate competitive firms in an industrial environment simulated by computer.

472. Controllership (3). A course designed to focus on the controller function. Coverage includes the controllership concept; the basic techniques of controllership; operational planning and control; long-range planning; and advanced techniques of controllership.

Accounting 472. Income Tax Accounting (3). May be counted as a course in the Department of Finance. For course description, see ACC 472.

474. Investments (3). A survey of investment principles and practices. Emphasis is given to security analysis and portfolio management, with special attention focused on the individual investor.

476. The Small Business Environment (3). Integrates the functions of finance and other related business areas (including marketing, management, accounting, etc.) into a coherent realistic approach for the operation and management of a small business organization. An analytical approach is taken regarding the decision input-output relationships that can significantly exercise influence on the profit position of the firm.

478. Financial Management in the Public Sector (3). Study is allocated to non-profit and governmental decision making concerning cost-benefit analysis, formulation and execution of the budgeting process, development and structure of financial statements, and revenue sources.

481. Seminar in Finance (3). Case problems involving the long range planning, control and growth of the modern business enterprise.

484. Business Law II (3). Prerequisite: Business Law I. Legal principles related to personal property and bailments; the law of sales; Commercial paper; and secured transactions. (Formerly MGT 484) . . . may not be counted as a finance elective or an elective in the real estate minor.

486. Independent Research in Finance (3). Prerequisite: permission of the department head. Research will be conducted into an area of "special interest" documented by a thesis-styled research paper.

489. Finance Practicum (3). Prerequisite: Senior status and the approval of the Finance Department Head. Practical experience in the field of finance.

DEPARTMENT OF OFFICE ADMINISTRATION (OA)

S. Granger: Department Head
Associate Professor: S. Granger
Assistant Professors: Collins, Selman
Instructor: Dunn

DESCRIPTION OF COURSES

101. Elementary Typewriting (3). Four class hours a week. Fundamentals of touch typewriting. Emphasis is on technique, accuracy, speed, arrangement of letters, tabulation, and simple manuscripts. Restricted to students without any previous training. (Formerly SE 280).

110. Elementary Gregg Shorthand (3). Four class hours a week. Prerequisite: OA 101 or equivalent. Principles of Gregg Shorthand; development of skill in reading and writing from printed and written shorthand; business letters dictated 40-80 wpm. (Formerly SE 281).

120. Century 21 Shorthand I (3). Four class hours a week. Prerequisite: OA 101 or equivalent. Principles of Century 21 Shorthand. Development of skill in reading, writing, and transcribing shorthand from shorthand plates and dictation at 40-80 wpm. (Formerly SE 252).

201. Intermediate Typewriting (3). Four class hours a week. Prerequisite: OA 101 or equivalent. Emphasis is on building speed and accuracy, business letters with special features, tables, reports, and manuscripts. (Formerly SE 380).

210. Intermediate Dictation and Transcription (3). Four class hours a week. Prerequisites: OA 101 and OA 110 or equivalent. Speed building from dictation at 60-100 wpm and transcribing with 95 percent accuracy. (Formerly SE 381).

220. Century 21 Shorthand II (3). Four class hours a week. Prerequisite: OA 101 and 120 or equivalent. Speed building from dictation at 60-100 wpm and transcribing with 95 percent accuracy. (Formerly SE 352).

285. Introduction to Word Processing (3). Prerequisite: OA 201 or equivalent. An in-depth study of the realm of word processing—data origination, production, reproduction, filing and distribution. (Formerly SE 385).

301. Advanced Typewriting (3). Four class hours a week. Prerequisite: OA 201 or equivalent. Continued emphasis is on building speed and accuracy and increasing production skills under a variety of simulated office situations. (Spring) (Formerly SE 480).

315. Advanced Dictation and Transcription (3). Four class hours a week. Prerequisites: OA 301 and OA 210, 220 or equivalent. Speed building from dictation at 80-120 wpm and transcribing at 97 percent accuracy. (Fall) (Formerly SE 481).

350. Business Communications (3). Prerequisites: English 101, 102, 141; knowledge of typewriting desirable. Principles, procedures, and skills underlying oral and written communications in the field of business. (Formerly MGT 350).

387. Office and Records Management (3). Prerequisite: MGT 383 or equivalent. Analysis of the office and records management functions in the business organization. Principles and methods of information handling, storage, retrieval under automated and computer-based systems; office design and layout and the responsibilities of the office administrator. (Formerly MGT 387).

406. CPS Review and Seminar (3). Prerequisite: OA 484. A course to provide information relative to the Certified Professional Secretaries examination. An integration of concepts and skills of other courses, including human relations, business law, economics, financial administration, communications, and office procedures.

482. Typewriting Speed Building (3). Prerequisite: OA 301. Emphasis is placed on building speed and improving accuracy by extensive use of drills and timed writings.

484. Secretarial Office Procedures and Administration (3). Prerequisites: OA 301, 315, and 285. A comprehensive coverage of secretarial office procedures common to the modern business office. (Spring) (Formerly SE 484).

485. Advanced Office Procedures (3). Prerequisite: OA 484. Advanced study of office processes and procedures. Recommended for students preparing for the Certified Professional Secretaries Examination.

486. Word Processing Techniques (3). Prerequisite: OA 201 or equivalent. Practical experience in the utilization of modern word processing systems for administrative and data handling problems.

489. Office Administration Practicum (3). Prerequisites: Senior standing and the approval of the Dean of the College of Commerce and Business Administration. Practical experience in some field of office administration.

490. The Legal Office (3). Prerequisites: Junior standing, OA 285 or equivalent. A study of the role and duties of the secretary in the legal office with emphasis on legal vocabulary, legal papers, legal correspondence, legal processes, ethical considerations, and privileged information.

491. Specialized Skills for the Legal Office (3). Prerequisites: OA 285, 301, 315, or equivalent. Development of the precise typewriting and stenographic skills required of the legal secretary. Emphasis is placed on the typing and dictation and transcription of legal communications.

495. The Medical Office (3). Prerequisites: Junior standing, OA 285, OA 387. A study of the role and duties of the medical secretary with emphasis on the organization and management of types of medical offices, medical vocabulary, maintenance of patient files, preparation of insurance forms, patient relationships, medical ethics, and confidential information.

496. Specialized Skills for the Medical Office (3). Prerequisites: OA 285, 301, 315, or equivalent. Development of specialized skills needed by the medical secretary. Emphasis is placed on the typing of medical forms of various types and on dictation and transcription. The role of word processing in the preparation and storage of medical records is examined.

VOCATIONAL BUSINESS EDUCATION (VBE)

(Open only to seniors and second semester juniors in
Business and Office Education)

317. Methods of Teaching Typewriting and Shorthand (3). Prerequisites: OA 201 or its equivalent, OA 210, 220 or its equivalent. Specialized methods of teaching typewriting and shorthand.

318. Methods of Teaching Bookkeeping and Business Mathematics (3). Prerequisite: ACC 391 or its equivalent. Specialized methods of teaching bookkeeping and accounting and basic business mathematics.

319. Methods of Teaching Office Practice and General Business (3). Specialized methods of teaching both clerical and stenographic office practice and general business courses.

400. Principles and Philosophy of Vocational Business Education (3). Historical development of vocational business education curriculum and basic underlying philosophy and responsibilities for the high school business and office education teacher. Required by State of Alabama for both preparatory teachers and coordinators in a business and office education program.

402. Analysis of Business and Office Occupations (3). Analyzing and identifying jobs which might be filled by a high school student during and after completion of a business and office education program. Required for both preparatory teachers and coordinators.

403. Techniques of Coordination of Business and Office Education (3). Techniques a coordinator would use in successfully coordinating classroom activities with on-the-job training. Required by the State of Alabama for coordinators.

404. Materials and Methods of Teaching Vocational Business and Office Education (3). Various methods of teaching related business and office skills. Required by State of Alabama for both preparatory teachers and coordinators in a business and office education program.

DEPARTMENT OF MANAGEMENT (MGT)

W. E. Loftin: Department Head

Associate Professor: Loftin

Assistant Professor: Cary

Instructors: Akin, Cobb, Davis, Marker

DESCRIPTION OF COURSES

Economics 302. Development of the Modern American Economy (3). Prerequisite: Economics 220 and 221. May be counted as a course in the Department of Management. For description, see Economics 302.

Economics 315. Labor Economics (3). Prerequisites: MGT 383 and Economics 220 and 221. May be counted as a course in management. For description, see Economics 315.

Economics 316. Managerial Economics (3). May be counted as a course in Management. For description, see Economics 316.

361. Statistics and Quantitative Methods. Statistics for Business Applications (3). Prerequisite: ST 360. May be counted as a course in Management. For description, see ST 361.

362. Personnel Management (3). Prerequisite: MGT 383, junior standing or consent of the instructor. Basic principles, philosophies, and application of personnel administration.

Psychology 370. Assessment in Industry (3). Prerequisite: MGT 470. May be counted as a course in the Department of Management. For description, see Psychology 370.

Psychology 372. Human Factors Analysis (3). Prerequisite: Psychology 201. May be counted as a course in the Department of Management. For description, see Psychology 372.

383. Principles of Management (3). A basic course in general management. Principles and theories. Management 383 is a prerequisite to all other management courses.

390. Production Management (3). Prerequisites: MGT 383 & ST 360. Concepts and techniques for management decisions in production and operations.

Accounting 396. Managerial Accounting (3). May be counted as a course in Management. For course description, see Accounting 396.

Statistics and Quantitative 390. Quantitative Business Analysis (3). Prerequisite: ST 360. May be counted as a course in the Department of Management. For description, see Statistics and Quantitative Methods 390.

Computer Science 411. Management Information Systems (3). Prerequisites: Senior standing and BCS 201 or equivalent. May be counted as a course in the Department of Management. For course description, see BCS 411.

468. Wage and Salary Administration (3). Prerequisites: MGT 362, 383, or consent of instructor. Wage and salary determination including wage policy, job evaluation techniques, and wage payment methods.

469. Business Policies and Problems (3). Prerequisites: MGT 383 and junior standing. Specific problems involved in the formulation and implementation of business policies and in establishing and maintaining an efficient organization. Case studies employed extensively.

470. Human Behavior in Business (3). Prerequisites: Psychology 201 and MGT 383. An in-depth study of human beings and how they interact with the organizational environment. Motivation, leadership and communication are stressed in order that the manager will be better able to understand and thus predict and control the action of employees.

472. Organization Theory (3). Prerequisite: MGT 383. Organizational theory, principles, and practices in the management of business operations. Development of a general theory of administration by integrating modern interdisciplinary contributions with traditional management theory.

486. Industrial Management Problems (3). Prerequisites: MGT 383, 469 and senior standing or consent of the instructor. Employing an integrative approach, student applies knowledge gained from accounting, behavioral science, general business, management, and marketing courses to the solution of practical business problems. Case studies are used extensively.

489. Management Practicum (3). Prerequisites: Senior status and approval of the Dean of the College of Commerce and Business Administration. Practical experience in the management field. May be counted as an elective in the management major.

490. Collective Bargaining (3). Prerequisite: MGT 362 or consent of the instructor. Collective bargaining in the employer-employee relationship and the strategy used by the various parties in the business process.

Statistics and Quantitative Methods 490. Advanced Quantitative Business Analysis (3). Prerequisites: ST 390 and senior standing. May be counted as a course in the Department of Management. For description, see ST 490.

491. Management Seminar (3). Prerequisites: Senior status and a minimum of 12 hours in management courses. Selected readings in management theory and practice combined with classroom lectures and discussions. Includes supervised and independent student research.

492. Business and Society (3). Prerequisite: MGT 383 or permission of instructor. Examination of current problems and issues facing business managers in a changing society. Interrelationships among business, government, and interest groups are explored and analyzed.

Computer Science 495. Business Decision Making (3). Prerequisites: ST 360 and senior standing. May be counted as a course in the Department of Management. For description, see BCS 495.

496. International Management (3). Prerequisite: Senior standing in Management or permission of the instructor. Comparative study in managing the international, multinational and national business organization.

499. Senior Management Research (3). Prerequisite: Permission of Department Head. Independent research in a management area jointly selected by the student and an assigned management department instructor.

DEPARTMENT OF MARKETING (MKT)

Instructors: Green, Wilson

DESCRIPTION OF COURSES

Finance and Real Estate 341. Principles of Real Estate (3). May be counted as a course in the Department of Marketing. For course description, see FIN 341.

Statistics and Quantitative 361. Statistics for Business Applications (3). May be counted as a course in the Department of Marketing. For course description, see ST 361.

376. Principles of Marketing (3). Prerequisite: EC 221. Distribution of manufactured goods or agricultural and natural products from producer to consumer. Channels of trade, marketing functions, institutions, costs, problems and policies. Prerequisite to all other marketing courses.

377. Principles of Advertising (3). Prerequisite: MKT 376. Investigation of ideas and concepts used to inform consumers of the availability and attributes of products and services, through impersonal media.

378. Consumer Behavior (3). Prerequisite: MKT 376. Analysis and interpretation of consumer buying habits and motives and the resultant effect on purchasing.

380. Principles of Transportation (3). Prerequisites: MKT 376 and ST 360. A survey of American transportation agencies, the services they render to American business, and the system of state and federal regulations under which they operate.

386. Promotional Strategy (3). Prerequisites: MKT 376 and MKT 377. The intensive investigation of the underlying concepts which may be used to inform consumers of the availability and attributes of products, services and ideas with particular emphasis upon the marketing implications of such issues.

IM 403. Audio-Visual Media in Advertising and Marketing (3). May be counted as a course in Department of Marketing. For course description, see IM 403.

423. Advanced Consumer Behavior (3). Prerequisites: PSY 201 and MKT 378. An advanced course on the psychology of buying, including information processing, attitude formation and change, innovation and opinion, leadership, lifestyles, and decision processes.

450. Physical Distribution Management (3). Prerequisites: MKT 376 and ST 360. Market forces which influence physical distribution requirements and capabilities, with broader factors such as spatial aspects, geographical forces, physical flow of goods through marketing network alternatives.

461. Principles of Salesmanship (3). Prerequisite: MKT 376. The sale of both tangibles and intangibles. Consideration of salespeople in relation to their firm, their goods, and their customers.

463. Industrial Marketing (3). Prerequisite: MKT 376. Distribution of industrial goods from producer to user. Institutions, buying, selling, financing, storage, and transportation.

465. Sales Force Management (3). Prerequisites: MKT 376, 461. Management of the personal selling function in contemporary business environments. Pertains to the problems of organization, motivation, evaluation, control and management of the sales force. Investigation and analysis of forecasting, training, compensation, territory and quota establishment and credit management.

Management 470. Human Behavior in Business (3). May be counted as a course in Department of Marketing. See MGT 470 for course description.

Economics 482. Business Cycles and Forecasting (3). May be counted as a course in the Department of Marketing. For course description, see EC 482.

488. Market Forecasting Methods (3). Prerequisites: MKT 376, 495, ST 360. Integration and relation of tools and concepts of marketing in the development of market forecasts using methods of simulation.

489. Marketing Practicum (3). Prerequisites: Senior status and the approval of the Dean of the College of Commerce and Business Administration. Practical experience in some field of marketing.

Statistics and Quantitative Methods 492. Sampling Techniques (3). May be counted as a course in Department of Marketing. For course description see ST 492.

493. International Marketing (3). Prerequisite: MKT 376. Development of the market mix for a foreign market. Emphasis is placed on the differences in cultural, political, economic, and social environment.

494. Retailing (3). Prerequisite: MKT 376. Store layout, location, accounting, personnel, buying, selling, credit policies, and control systems.

495. Marketing Management (3). Prerequisites: MKT 376, ST 360 and 12 hours of MKT courses. Decision-making relative to customers, products, pricing, promotion, physical distribution, and law.

Computer Science 495. Business Decision Making (3). Prerequisites: ST 360 and senior standing. May be counted as a course in the Department of Marketing. For description, see BCS 495.

496. Marketing Problems (3). Prerequisite: MKT 495. Investigation of problems in retailing, wholesaling, pricing, advertising, selling, channels of distribution, and law.

497. Market Research (3). Prerequisites: MKT 376, ST 360 and 12 hours of marketing courses. Techniques of research and writing. Students will select a topic in the field of marketing in which they have a special interest and will write a thesis-type term paper.

499. Senior Seminar in Marketing (3). Prerequisites: Senior status and a minimum of twelve hours in marketing courses. Investigation and analysis of current literature and problems in the field of marketing. (Minimester)

DEPARTMENT OF BUSINESS STATISTICS (ST) AND COMPUTER SCIENCE (BCS)

F. Fuller: Department Head

Associate Professor: Fuller

Instructors: Clark, Cole, Hinkson, Jarman, Peters, Reaves

The Department of Business Statistics and Computer Science offers a major in computer science and minors in computer science and statistics and quantitative methods. A student may major in computer science and minor in statistics and quantitative methods.

STATISTICS AND QUANTITATIVE METHODS COURSES (ST)

360. Elementary Statistics (3). Prerequisite: Mathematics 102. Collection, classification, and presentation of data through statistical tables and charts; statistical descriptions-averages and dispersion; probability; probability and sampling distribution; confidence interval estimation; tests of hypothesis.

361. Statistics for Business Applications (3). Prerequisites: ST 360, MS 122 or 141. Statistical inference; index numbers; introduction to time series analysis, regression and correlation analysis; analysis of variance; nonparametric methods; contingency table techniques. Emphasis is on business applications.

390. Quantitative Business Analysis (3). Prerequisite: ST 360. The application of quantitative analysis as a tool in the solution of business problems. Topics include statistical decision theory, linear programming, inventory and production models, network analysis, and analysis of waiting lines.

401. Statistical Theory (3). Prerequisites: ST 361 and MS 141. Random variables, distribution theory, mathematical expectation, estimation, hypothesis testing, moments, characteristic functions.

450. Design of Experiments (3). Prerequisite: ST 361. Introduction to the design of experiments and analysis of variance; random block, factorial, Latin square, and analysis of covariance.

Economics 480. Business Cycles and Forecasting (3). Prerequisite: EC 322. May be counted as a statistics and quantitative methods course. For a course description see EC 480.

Economics 486. Econometrics (3). Prerequisites: EC 321, 322 and ST 360. May be counted as a statistics and quantitative methods course. For a course description see EC 486.

490. Advanced Quantitative Business Analysis (3). Prerequisite: ST 390. Quantitative methods such as dynamic programming, game theory, simulation, Bayesian analysis, and such probabilistic models as inventory, Markov, and queuing are covered.

492. Sampling Techniques (3). Prerequisite: ST 360. The study of statistical sampling and its application in business decision-making and business research. The student will be expected to design, conduct, and analyze a statistical survey sample.

Computer Science 495. Business Decision Making (3). Prerequisites: ST 360 and senior standing. May be counted as a statistics and quantitative methods course. For a course description see BCS 495.

Marketing 497. Market Research (3). Prerequisites: MKT 376, BCS 201 and ST 360. May be counted as a statistics and quantitative methods course. For a course description see MKT 497.

499. Independent Research (3). Prerequisite: The approval of the Department Head. Research will be conducted into an area of "special interest" documented by a thesis-styled research paper.

COMPUTER SCIENCE COURSES (BCS)

201. Introduction to Data Processing (3). A brief exposure to the theory and operations of data processing. Concepts presented are punched card, unit record machines, computers, and magnetic storage devices, flow-charting, program logic and basic computer programming languages.

SCS 233. Computer Elements and Digital Logic (3). Prerequisites: SCS 231, MS 141. May be counted as a BCS course. For a course description see SCS 233.

240. Introduction to BASIC Programming (3). Prerequisite: BCS 201. An introduction to computer programming using BASIC. Emphasis on use of subscripts of vectors, matrices and techniques to sort data employing structured programming methodology. Integral-non structured laboratory.

250. Introduction to COBOL Programming (3). Prerequisite: BCS 201. A beginning course in COBOL Programming. Problems dealing with business computation and record keeping will be emphasized. (Formerly entitled INTRODUCTION TO COMMERCIAL COMPUTER PROGRAMMING.)

251. Assembly Language Programming (3). Prerequisite: BCS 201. A beginning course in assembly language programming emphasizing applications.

252. Fortran Programming For Non-Science Majors (3). Prerequisite: BCS 201 or permission of instructor. Develops computer programming capability with the Fortran language to permit use of the digital computer as a tool in solving business and mathematical problems. Includes key punching, flow charting, the use of coding forms, and programming of a digital computer in Fortran language. Lecture periods occasionally replaced by laboratory periods at the discretion of the instructor. (Same as SCS 252)

SCS 258. PL/I Programming (3). Prerequisite: MS 103 or equivalent. May be counted as a BCS course. For a course description see SCS 258.

310. Fundamentals of Systems Analysis (3). Prerequisites: BCS 201 plus a programming language. An introduction to such topics as the systems analyst, analysis of basic-data, design of data processing systems, cost analysis, justification, implementation and evaluation.

320. Data Processing Systems Management (3). Prerequisite: BCS 201. This course covers the unique problems involved in managing computer-based systems. Emphasis is placed on the definition, evaluation, installation, and continuing management of EDP systems. Issues of planning, control, security and the organizational impact of computer systems are included.

330. Advanced COBOL Programming (3). Prerequisite: BCS 250. A continuation of BCS 250 with concentration on advanced applications of the COBOL Programming Languages. Table handling, sort features, and techniques for direct access of mass storage devices will be emphasized. Integral nonstructured laboratory.

350. Fundamentals of Computer Operating Systems (3). Prerequisites: BCS 201 plus a programming language. An introduction to operation systems, virtual storage concept, job control languages, library organization, system resources, multiprogramming and teleprocessing.

SCS 353. Introduction to Programming Languages (3). Prerequisite: SCS 231. May be counted as a BCS course. For a course description see SCS 353.

Statistics & Quantitative Methods 361. Statistics for Business Applications (3). Prerequisite: ST 360, MS 122 or 141. May be counted as a computer science course. For a course description see ST 361.

SCS 366. Information Storage and Retrieval (3). Prerequisite: SCS 354. May be counted as a BCS course. For a course description see SCS 366.

Statistics & Quantitative Methods 390. Quantitative Business Analysis (3). Prerequisite: ST 360. May be counted as a computer science course. For a course description see ST 390.

411. Management Information Systems (3). Prerequisites: BCS 201 or equivalent and senior status. The study of the systems concept and its relationship to informational requirements for decision-making and management. Concepts and techniques of computer-based information systems including all system development phases.

488. Data Base Systems (3). Prerequisites: BCS 201 plus a programming language. Concepts and terminology associated with data structures, file organization, access methods, packaged systems, data base design and data base systems.

495. Business Decision Making (3). Prerequisites: ST 360 and senior status. Computer simulations using game theory provides application of the ways to combine subjective judgment with quantitative methods in the analysis of uncertain decision situations in a simulated competitive business setting.

497. Business Computer Science Practicum (3). Prerequisites: Senior status including twelve semester hours BCS courses and approval of the Department Head. Practical experience in the business computer science field.

498. Independent Advanced Programming Problems (3). Prerequisite: Approval of the Department Head. Independent work in writing, debugging, and testing real-life programming problems jointly selected by the student and an assigned Computer Science Instructor.



The natural spring at the foot of the hill near the State Normal School was the popular scene of many social gatherings. This formally dressed group of 1904 students enjoy what must have been lemonade. The City of Jacksonville now receives much of its water supply from the spring.

COLLEGE OF EDUCATION

Robert C. Hymer: Dean

Professors: Rose, Thornburg, C., Thornburg, R.

Associate Professors: Brown, Dasinger, Devine, Dunaway, Friery, Frith,

Gillam, Harris, Head, Medley, Nielsen, Padgett, Parnell, Pope,

Reynolds, Roswal, Strange, Tutwiler, Walker, Williams, Wright

Assistant Professors: Armstrong, Chaney, Harper,

Jones, Lindsey, Roberson, Wigley

Instructors: Akers, Bailey, Bell, Cockley, Creel,

Dillard, Lipscomb, McCool, Uline, Wilson

The College of Education offers programs that are fully accredited by the National Council for Accreditation of Teacher Education (NCATE), the National Association of State Directors of Teacher Education and Certification (NASDTEC), and the Alabama State Board of Education. These programs lead to the Bachelor of Science degree in Education and Alabama Class B professional certification. (Consult the College of Graduate Studies Bulletin for programs leading to the Master of Science degree in Education and Class A and AA certification.)

Teacher education programs are approved by the Alabama State Board of Education and are therefore subject to periodic revision resulting from changes in State certification requirements. Therefore, modifications in students' programs may become necessary. Issuance of Alabama teaching certificates is the legal responsibility of the Alabama State Department of Education. Universities cannot issue a professional certificate. To qualify for a certificate, a student must complete an appropriate course of study at a College or University which has been approved by the State Board of Education to offer a program leading to the desired certificate. When a student completes the course of study, the institution recommends to the State Department of Education that the appropriate certificate be issued.

Admission to the Teacher Education Program

To enroll for professional education courses required for Alabama teacher certification, the prospective teacher must be admitted to the School of Education's Teacher Education Program. Admission to this program is not automatic. To be admitted, the student must have met the minimum State Department of Education requirements as well as our university requirements.

Although students may indicate in the freshman year an interest in teacher education and should seek advisement accordingly, they do not make a formal application until the second semester of the sophomore year. Students may obtain from the Office of Education, Ramona Wood Hall, Room 207, the necessary application forms to enroll in courses in professional education. These forms are to be completed and returned to the same office, preferably several months prior to the semester in which the student desires to enroll in education courses.

Prior to being admitted to the Teacher Education Program a student may take a minimum of six semester hours of professional education courses in the humanistic and behavioral areas to assist in making wise decisions concerning admission to teacher education and the selection of a teaching field. The courses are as follows: (*)

- (1) SPE 300—may be taken by students in all programs.
- (2) ECE 202—may be taken by early childhood education students.
- (3) EPY 329—may be taken by students in N-12 certification programs.

(*) These courses may be taken during the sophomore year and must be taken only at a senior college or university with an accredited teacher education program.

(4) EPY 331—may be taken by early childhood education and elementary education students.

(5) EPY 431—may be taken by secondary education students.

Any questions that you may have in regard to admission to the Teacher Education Program may be directed to Mr. R. Eugene Jones, Director of Advisement and Certification, College of Education, Ramona Wood Hall, Room 208.

I. Requirements for admission:

- A. The student must have earned a minimum of sixty (60) semester hours of college credit in which at least 48 semester hours are in the general studies area.
- B. The student must have earned an overall grade-point average of 1.25 (based upon an A=3, B=2, C=1) in all of the following areas:
 - (1) All hours attempted from all institutions attended
 - (2) All hours attempted at JSU
 - (3) All hours attempted in Teaching Field(s) from all institutions attended
 - (4) All hours attempted in Teaching Field(s) at JSU
- C. The applicant must have a minimum composite score of 16 on the American College Test (ACT), or a composite score of 745 on the Scholastic Aptitude Test (SAT). The test must have been taken within the past five years.
- D. The applicant is required to make a passing score on the Alabama English Language Proficiency Test which is given four times a year. Registration five weeks prior to the test date is required. Registration Forms are available in Room 208, Ramona Wood Hall.
- E. The applicant must have classroom observation at the level and in the teaching area in which they are seeking a degree or certification. At present, a minimum of ten school days, or if broken down into smaller units of time, fifty (50) hours minimum is required. Forms are available for verification of your experience in the Office of Education Room 207.
- F. The applicant must satisfactorily pass an interview to provide information of the applicant's personality, interests, and aptitudes consistent with the requirements for successful teaching.

Students are urged to apply for admission to the Teacher Education Program as soon as they qualify based upon the above criteria.

Retention and the Internship Semester

Students are required to make formal application for the Internship Semester (the semester in which student teaching is done) no later than March 15 if the Internship Semester is to be scheduled for the fall semester and no later than Sept. 25 for the spring semester. Please note that student teaching is offered only in the fall and spring semesters. so plan your degree program accordingly.

Application forms are available in Room 207, Ramona Wood Hall.

I. Eligibility requirements for the Internship Semester:

- A. The student must possess senior status, i.e., a minimum of ninety-six (96) semester hours of earned credit.
- B. The student must have completed their 50 hours of pre-student teaching observation.
- C. The student must have completed the appropriate junior level education courses over a two semester sequence.

(Note: Early Childhood Education and Elementary Education degree candidates will not be approved for the internship semester unless they have completed EED 341 and 342).

- D. The student must possess a 1.25 grade-point average in all of the following areas:
1. All hours attempted from all institutions attended
 2. All hours attempted at JSU
 3. All hours attempted in Teaching Field(s) from all institutions attended
 4. All hours attempted in Teaching Field(s) at JSU
 5. All hours attempted in professional education courses from all institutions attended
 6. All hours attempted in professional education courses at JSU

Application forms for the Internship Semester are available in Room 207, Ramona Wood Hall.

Graduation and Certification

I. Requirements for recommendation for a degree in education:

- A. The student must have met all requirements of the degree programs as outlined in the catalogue, including the completion of prescribed practicum experiences.
- B. In addition, the student must have maintained a 1.25 grade-point average in all hours attempted in all of the areas enumerated above in I-D under the section entitled Retention and the Internship Semester.
- C. The student is to complete the degree program in education within four years after admission to the Teacher Education Program. Failure to do so may result in a change of the requirements for graduation.

II. Requirements for Alabama Certification:

- A. The student, during his/her last semester of course work, is to obtain an application form for certification from the Certification Secretary, Room 207, Ramona Wood Hall. A \$10.00 certificate fee (money order or cashier's check made payable to the Alabama State Department of Education), which is forwarded with the student's credits to the State Department of Education, should accompany the application. A person may be issued as many certificates as he/she is eligible to receive, but each certificate applied for requires a \$10.00 fee. Upon completion of the appropriate courses of study which leads to the desired certificate, the institution recommends to the State Department of Education that the appropriate certificate be awarded. The University cannot recommend any student for certification who has not satisfied all State and University requirements for admission to and completion of an approved program.
- B. To be eligible for issuance of an initial Class B Alabama teacher's certificate, the candidate must make a passing score on the Basic Professional Studies Test (Code 99), and passing scores in their respective teaching field(s) test of the Alabama Initial Teacher Certification Testing Program. Registration forms for the tests are available in Room 207, Ramona Wood Hall.
- C. For additional information regarding the policies and regulations of the Alabama State Department of Education governing the issuance, renewal, reinstatement of certificates, or adding additional teaching field endorsements, contact Mr. R. Eugene Jones, Director of Advisement and Certification, College of Education, Ramona Wood Hall, Room 208.

DEPARTMENT OF EARLY CHILDHOOD EDUCATION (ECE)

Medley: Acting Department Head

The ECE curriculum is for students seeking certification in N-3.

DESCRIPTION OF COURSES

202. Guided Practicum Experiences (3). Active participation in actual classroom to allow exposure to the developmental and educational process of young children. This course is designed to encourage the student to explore the ECE field before making a decision to major in ECE.

373. Introduction to Early Childhood Education (3). An overview of the development of early childhood education and the various historical and current philosophies of thought concerning the practice of early childhood education. One hour per week practicum is required.

375. Creative Activities for the Young Child (3). Exposure of creative methods in teaching the curriculum for young children in all areas including: language arts, social studies, math, science, reading. One hour per week practicum is required.

376. Seminar in Early Childhood Education (3). An analysis of pertinent research, parent education, nutrition, learning theory, problems of current significance in the learning theory, and problems of current significance in the development of educational programs for young children.

401. Curriculum Design for Early Childhood Education (3). An overview of a daily school schedule, room arrangement, curriculum materials and implementation of a balanced program. One hour per week practicum is required.

402. The Culturally Different (3). An overview of problems affecting the poor, young child including learning problems. Special emphasis on specialized teaching methods and materials. One hour per week practicum is required.

460. Internship in ECE (9). Student teaching in grades N-3 under the supervision of a cooperating teacher and a university supervisor.

BACHELOR OF SCIENCE IN EDUCATION

Teaching Field: Early Childhood Education

GENERAL STUDIES

Humanities: 15 semester hours:

English 101, 102.....	6
English 141	2
English 201 or 202 and 301 or 302	6
Instructional Media 101	1

Social Sciences: 12 semester hours:

Economics 220 or 221 or 224.....	3
History 101, 102 or 201, 202	6
Political Science 201 or 202 or Psychology 201 or Sociology 221 or 310 or Geography 241	3

Natural and Physical Sciences, Including Mathematics: 12 semester hours:

Biology 101, 102, 103, 104, 221, 222, 241 or 242.....	3-6
Physical Science (by advisement)	3-6
Mathematics (by advisement).....	3-6

Courses Selected From At Least Two of the Above Three Major Areas:**9 semester hours:**

Humanities Electives (Must include one course in Art, Music, or Drama)	1-8
Social Science Electives.....	0-8
Science/Math Electives	0-8

Health Education and Physical Education: 3 semester hours:

Physical Education 101	3
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Electives	9
Total Required Hours General Studies	60

PROFESSIONAL STUDIES**Humanistic and Behavioral Studies: 12 semester hours:**

Special Education 300 (*)	3
Educational Psychology 331.....	3
Educational Psychology 332.....	3
Education 431	3

Teaching Field: 30 semester hours:

Early Childhood Education 202 (*).....	3
Elementary Education 411	3
Early Childhood Education 375	3
Elementary Education 462	3
Early Childhood Education 402	3
Home Economics 352.....	3
Elementary Education 341	3
Elementary Education 343	3
Elementary Education 344	3
Elementary Education 362	3

Reading: 6 semester hours:

Elementary Education 342.....	3
Elementary Education 354.....	3

Curriculum and Teaching, Media: 9 semester hours:

Early Childhood Education 373	3
Early Childhood Education 376	3
Early Childhood Education 401	3

Evaluation and Teaching and Learning: 3 semester hours:

Educational Psychology 442.....	3
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Internship: 9 semester hours:

Early Childhood Education 460	9
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***Electives: 3 semester hours:**

By advisement.....	3
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Total Required Hours in Professional Studies: 72 semester hours

Total Hours in Program: 132

(*)SPE 300 and ECE 202 may be taken in the sophomore year prior to being admitted to the Teacher Education Program.

DEPARTMENT OF ELEMENTARY EDUCATION (EED)

Medley: Acting Department Head

The Elementary Education curriculum is for students seeking certification in grades 1-6.

DESCRIPTION OF COURSES

299. Observation and Participation (3). Carefully planned and supervised experiences with children in a cooperating school.

341. Teaching Arithmetic (3). Prerequisite: Mathematics 133. Materials and methods in the teaching of arithmetic.

342. Teaching Reading (3). Methods, materials, and research findings concerned with the teaching of reading.

343. Teaching Social Studies (3). Materials and methods of teaching social studies in the elementary grades.

344. Language Arts (3). Theory and Practice of teaching the language arts in elementary school.

354. Reading Diagnosis and Correction (3). Causes of reading disability, methods of diagnosis, procedures and materials for corrective work dealing with both groups and individuals in a classroom setting are emphasized.

362. Teaching Science (3). Materials, laboratory demonstrations, and organization of science topics taught in the elementary grades.

371. Directed Teaching PE Elementary School (3). Required of physical education majors only. Supervised classroom observation and student teaching of physical education in the elementary school.

400. Seminar in Elementary Education (3). A study of current issues and trends in elementary education.

411. Books and Related Materials for Children (3). Not open to those with credit in IM 411. For course description see IM 411.

461. Art Education for the Elementary Teacher (3). One lecture and four studio periods a week. Prerequisite: Art 233 or equivalent. Giving the teacher a working knowledge of art and an appreciation of its importance in the education of children.

462. Music Education for the Elementary Teacher (3). Prerequisite: Music 233 or its equivalent and approval for professional semester. A survey of materials in a well-rounded elementary music program. A review of activities in singing, listening, and in rhythmic, instrumental and creative areas on the elementary level.

470. Internship (9). Student teaching in grades 1-6 under the supervision of a cooperating teacher and a university supervisor.

BACHELOR OF SCIENCE IN EDUCATION

Teaching Field: Elementary Education

General Studies

Humanities: 15 semester hours:

English 101, 102.....	6
English 141	2
English 201 or 202 and 301 or 302	6
Instructional Media 101	1

Social Sciences: 12 semester hours:

Economics 220 or 221 or 224.....	3
History 101, 102 or 201, 202	6
Political Science 201 or 202 or Psychology 201 or Sociology 221 or 310 or Geography 241	3

Natural and Physical Sciences, Including Mathematics: 12 semester hours:

Biology 101, 102, 103, 104, 221, 222 or 241 or 242	3-6
Physical Science (by advisement)	3-6
Mathematics (by advisement).....	3-6

Courses Selected From At Least Two of the Above Three Major Areas:

9 semester hours:

Humanities Electives (Must include one course in Art, Music, or Drama).....	1-8
Social Science Electives.....	0-8
Science/Math Electives.....	0-8

Health Education and Physical Education: 3 semester hours:

Physical Education 101	3
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Electives	9
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Total Required Hours General Studies	60
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PROFESSIONAL STUDIES

Humanistic and Behavioral Studies: 12 semester hours:

Special Education 300 (*)	3
Educational Psychology 331.....	3
Educational Psychology 332.....	3
Education 431	3

Teaching Field: 27 semester hours:

Physical Education 361	3
Elementary Education 299.....	3
Elementary Education 400.....	3
Elementary Education 411	3
Education 451	3
Elementary Education 461	3
Elementary Education 462.....	3
Choose two from: Music 223, Art 301, Drama 445, English 321, Early Childhood Education 375.....	6

Curriculum and Teaching: 12 semester hours:

Elementary Education 341	3
Elementary Education 343	3
Elementary Education 344.....	3
Elementary Education 362.....	3

Evaluation of Teaching and Learning: 3 semester hours:

Educational Psychology 442.....	3
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Reading: 6 semester hours:

Elementary Education 342.....	3
Elementary Education 354.....	3

Internship: 9 semester hours:

Elementary Education 470.....	9
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Electives:

By advisement.....	3
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Total Required Hours in Professional Studies: 72 semester hours

Total Hours in Program: 132

(*)SPE 300 and EPY 331 may be taken at the sophomore level prior to being admitted to the Teacher Education Program.

DEPARTMENT OF SECONDARY EDUCATION (ED)

Parnell: Acting Department Head

Secondary Education Programs

I. Middle School Certification Programs (Grades 4-8)

- A. Dual teaching fields may be chosen from the following: art, biology, emotionally conflicted, English, French, German, health education, history, mathematics, mentally retarded, physical education, Spanish, speech communication/theatre.
- B. A single comprehensive teaching field may be chosen from the following: general science, home economics, language arts, social science.

II. High School Certification Programs (Grades 7-12)

- A. Dual teaching fields may be chosen from the following: art, biology, chemistry, economics, emotionally conflicted, English, French, geography, German, health education, history, mathematics, mentally retarded, physics, physical education, political science, psychology, sociology, Spanish, speech communication/theatre.
- B. A single comprehensive teaching field may be chosen from the following: business and office education, general science, home economics, language arts, social science.

DESCRIPTION OF COURSES

302. Principles of Education (3). Nature and scope of public education. Prerequisite: Admission to teacher education program.

380. Reading in the Middle School (3). Emphasis on building reading and study skills in the subject areas of the middle school. Developmental, functional and recreational characteristics of early adolescent reading is given special consideration.

382. Methods of Teaching in Secondary Schools (3). Materials and methods of teaching at the secondary level.

383. Reading in Secondary Schools (3). Emphasis is given to teaching common and special reading skills. Oral communication skills are also emphasized.

431. School and Society (3). Prerequisite: Approval for professional semester. A survey of the historical, sociological, and philosophical foundations of American education.

451. Audio-Visual Materials and Equipment (3). Three class meetings and one laboratory period each week. Examination and evaluation of films, filmstrips, slides, exhibits, charts, maps, globes, recordings and recording devices, radio and television programs; the contributions of audio-visual materials to the elementary and secondary curriculum, to sources of audio-visual materials, and to the operation, care and housing of necessary equipment.

481. Directed Teaching: Secondary School (6). Prerequisite: Approval for professional semester. Student teaching in grades 7-12. Open to seniors only. One conference each month with the college supervisor is to be scheduled at registration time. In addition, conferences with the supervising teacher are to be scheduled for times convenient to the teacher and student.

482. Problems of Secondary Education (3). Prerequisite: Approval for professional semester. Problems and issues in the teacher's responsibilities and in the teaching-learning processes.

483. Teaching in the Middle School (3). Studies involving curriculum and other responsibilities of the middle school teacher.

484. Teaching in the High School (3). Studies involving curriculum and other responsibilities of the high school teacher.

485. Internship in the Middle School (9). Prerequisite: Approval for professional semester. Student teaching in grades 4-8 under the supervision of a cooperating teacher educator and a University supervisor.

486. Internship in the High School (9). Prerequisite: Approval for professional semester. Student teaching in grades 7-12 under the supervision of a cooperating teacher educator and a University supervisor.

487. Internship in Grades N-12 (3). Prerequisite: Approval for professional semester. Student teaching in grades N-12 under the supervision of a cooperating teacher-educator and a University supervisor.

BACHELOR OF SCIENCE IN EDUCATION

Teaching Field: Secondary Education High School Certification Program (Grades 7-12)

General Studies

English 101, 102, 141, 201 or 202, 301 or 302	14
Instructional Media 101	1
Economics 220 or 221 or 224.....	3
History 101 and 102 or 201 and 202.....	6
Political Science 201 or 202 or Psychology 201 or Sociology 221 or 310 or Geography 241	3
¹ Twelve semester hours from the following areas:	
Biology 101, 102, 103, 104, 221, 222, 241, 242	3-6
Chemistry 105, 106, 107, 108, General Science 221, 222 Physics 101, 101L, 102, 102L, Geography 110, 111	3-6
Mathematics 101, 102, 103, 104, 133, 141, 142	3-6
² Nine semester hours from the following areas:	
Humanities, including a course in Art, Music or Speech Communication/Theatre	1-8
Social Science	0-8
Science/Mathematics	0-8
Physical Education 101	3
² Electives or courses from the teaching field.....	9

Professional Studies

Special Education 300*	3
³ Ed Psy 431*, 442	6
⁴ ED 382, 484, (AED 382)	6-9
ED 383	3
⁵ ED 431	3
⁵ Ed Psy 332	3
⁵ ED 486	9
Teaching Field(s) and approved electives	35-57
	68-93
Total (Varies according to teaching field(s) chosen)	128-153

¹By advisement for students choosing a teaching field in Mathematics, Biology, Chemistry, General Science, or Physics.

²By advisement.

³Students in Home Economics teaching field must meet different requirements. See advisor.

⁴Students in teaching field of Art must also take AED 382 (3 sem. hrs.). Students in teaching field of Home Economics and Business and Office Education must meet different requirements. See advisor.

⁵Professional semester.

(*)May be taken at the sophomore level prior to being admitted to the Teacher Education Program.

Middle School Certification Program (Grades 4-8)

General Studies 60

Requirements are the same as the General Studies Requirements in the High School Certification Program (Grades 7-12)

Professional Studies

Special Education 300 (*)	3
Ed Psy 431(*), 442 ¹	6
² ED 382, 483, (AED 362)	6-9
ED 380, 383, 451 ¹	9
³ ED 431	3
³ Ed Psy 332	3
^{1,3} ED 485	9
Teaching Field(s) and approved electives	29-57
	68-99
Total (varies according to teaching field(s) chosen)	128-159

(*)May be taken at the sophomore level prior to being admitted to the Teacher Ed. Program.

¹Students in teaching field of Home Economics must meet different requirements. See advisor.

²Students in teaching field of Art must also take AED 362 (3 sem. hrs.). Students in teaching field of Home Economics must meet different requirements. See advisor.

³Professional Semester

DEPARTMENT OF SPECIAL EDUCATION (SPE)

Frith: Department Head

DESCRIPTION OF COURSES

300. Survey of Exceptional Children and Youth (3). An introductory course to the field of exceptional children and youth. Special attention is given to the child who is physically or mentally handicapped.

310. Introduction to Behavioral Disorders (3). An overview to the area of emotional conflict with primary emphasis on the mental health factor. The characteristics of children who experience conflict as well as the identification of the children will be introduced. Vocabulary, terminology will receive attention.

311. Educational Programming for Children in Emotional Conflict (3). An introduction to models used and services rendered to children experiencing emotional conflict, emphasizing educational implications.

331. Psychology and Education of Mental Retardation (3). Prerequisite: PSY 201. The characteristics and nature of mental retardation. Social, emotional, physical, and learning characteristics of retarded children.

382. Materials and Methods of Teaching Mentally Retarded (3). Methods, techniques, procedures and materials used in teaching the mentally retarded in elementary and secondary schools.

383. Adaptive Curricula for Teachers of Children Experiencing Emotional Conflict (3). Analysis of remediation materials and their application to children in emotional conflict.

384. Advanced Instructional Techniques (3). Prerequisite: SPE 386. Designed to provide extensive and sophisticated approaches for motivating and instructing educable mentally retarded, learning disabled, and emotionally conflicted children and youth.

385. Techniques for Classroom Management (3). Emphasis on specific intervention techniques to facilitate management of behavior.

401. Physical Education Activities for Exceptional Children (3). Emphasis will be placed on activities of a recreational nature which may be used with the exceptional child. Active participation by the students enrolling in the course will be required.

402. Creative Activities for Exceptional Children (3). An introduction to the field of art for teachers of exceptional children. A multi-media approach will be used in a workshop situation.

403. Practicum in Mental Retardation (3). Prerequisite: Nine semester hours in special education including SPE 382. Directed experiences in observation and participation in special education classrooms. Seminars will be held in conjunction with this course.

404. Practicum in Emotional Conflict (3). Prerequisite: Nine semester hours in special education including SPE 383. Designed to give classroom experiences to students in the area of emotional conflict. Facilities will include, when feasible, public school, mental health facilities, and day care facilities.

405. Seminar in Special Education (3). Designed to concentrate on the interactions that occur between teachers and learners. Emphasis is on those variables that are associated with interpersonal, diagnostic, and teaching relationships and how they might be dealt with effectively.

406. Music for the Exceptional Child (3). An introduction to the field of music for teachers of exceptional children. Rhymes and rhythms and their relationship to the mental domain will be stressed. Emphasis will also be on simple musical activities of a practical nature.

407. Clinical Aspects of Multiple Disabilities (3). Characteristics of orthopedic and neurological involvement in children and youth with implications for school, hospital, and homebound programs. A medical orientation will also be included.

410. Parent Involvement in Home School Programming for Exceptional Children (3). Designed to provide methods and procedures for improving parent/teacher relations in order to have more effective educational programs for exceptional children.

415. Paraprofessionals in Special Education (3). Introduces the special education teacher to the role of the paraprofessional. Emphasis is on supervising techniques, instructional and non-instructional responsibilities, interpersonal relationships, and implications for training paraprofessionals.

416. Educational Diagnostic Measurement (3). Survey of group achievement and mental maturity tests. Test construction for classrooms diagnostic purposes will be stressed.

417. Independent Study in Special Education (3). An opportunity for advanced students to explore areas of personal interest. May be repeated for credit. Consent of instructor.

481. Student Teaching in Special Education (9). Prerequisite: approval for professional semester and completion of SPE 403 or SPE 404. One conference each month with the college supervisor is to be scheduled at registration time. In addition, conferences with the supervising teacher are to be scheduled for times convenient to the teacher and student.

BACHELOR OF SCIENCE DEGREE IN EDUCATION

Teaching Field: Special Education

Students working toward a Bachelor of Science in Education in the Special Education Department may choose from a variety of teaching fields. These include: (a) mental retardation/emotional conflict combination (N-12 certification); (b) mental retardation (N-12 certification); (c) emotional conflict (N-12 certification); (d) mental retardation (middle/junior high or high school certification); and (e) emotional conflict (middle/junior high or high school certification).

Each of the teaching fields in special education that are listed above require the same General Studies courses. General Studies requirements include the following:

English 101, 102.....	6
English 141	2
English 201 or 202 and English 301 or 302	6
Instructional Media 101	1
Economics 220 or 221 or 224.....	3
History 101, 102 or 201, 202	6
¹ Political Science 201 or 202; or Psychology 201; or Sociology 221 or 310; or Geography 241	3
¹ Biology 101 or 102, 103, 104; 221, 222, 241 or 242.....	3-6
¹ Physical Science (can be selected from CY 105, 106, 107, 108; GS 221, 222*; GY 110, 111; PHS 101, 102, PHS 101L and 102L)	3-6
¹ Mathematics (can be selected from MS 101, 102, 103, 104, 133, 141, or 142)	3-6
Humanities Electives (must include one course in Art, Music, or Drama).....	1-8
Social Science Electives.....	0-8
Science/Math Electives.....	0-8
Physical Education 101	3
Approved Electives from the Teaching Field	9
Total:	60

Of the courses listed above, 15 semester hours must come from the Humanities, 12 from the Social Sciences, 12 from the Natural and Physical Sciences, including Mathematics,

and three from Health Education and Physical Education. In addition, nine semester hours must be selected from at least two of the following three major areas: Humanities; Social Sciences; Natural and Physical Sciences, including Mathematics.

*GS 221 or 222 are not permitted for students choosing a teaching field in biology, chemistry, physics, or general science.

¹By advisement

Program: Mental Retardation/Emotional Conflict Combination (N-12 Certification)

Professional Studies

Educational Psychology 329*, 332, 442	9
Education 342, 383, 431	9
Special Education 300*, 310, 311, 331, 382, 383, 384, 385, 401, 402, 403, 404, 405, 416	42
Special Education 481	9
Special Education Electives (selected from remaining special education courses, or PE 380, 382, 385, 390, 401, 403, or 460)	9
Psychology 330.....	3
	81

Program: Mental Retardation (N-12 Certification)

Professional Studies

Educational Psychology 329*, 332, 442	9
Education 342, 383, 431	9
Special Education 300*, 331, 382, 384, 385, 403, 416, 310, 311, 401, 402, 404	36
Special Education 481	9
Special Education Electives (selected from special education or adapted physical education courses, or PSY 330).....	15
	78

Program: Emotional Conflict (N-12 Certification)

Professional Studies

Educational Psychology 329*, 332, 442	9
Education 342, 383, 431	9
Special Education 300*, 310, 311, 383, 384, 385, 401, 402, 404, 405, 416.....	33
Psychology 330.....	3
Special Education 381	9
Special Education Electives (selected from special education or adapted physical education courses)	15
	78

Program: Mental Retardation (Middle/Junior High Certification)**Professional Studies**

Educational Psychology 332, 442, 431*	9
Education 380, 382, 383, 431, 451, 483	18
Education 485	9
Special Education 300*, 331, 382, 384, 385, 403, 416.....	21
Special Education Electives (must be selected from other special education courses, adapted physical education courses, or PSY 330)	9
	<hr/> 66

Program: Mental Retardation (Senior High Certification)**Professional Studies**

Educational Psychology 332, 431*, 442	9
Education 382, 383, 431, 484	12
Education 486	9
Special Education 300*, 331, 382, 384, 385, 403, 416.....	21
Special Education Electives (must be selected from other special education courses, adapted physical education courses, or PSY 330)	9
	<hr/> 60

Program: Emotional Conflict (Middle/Junior High Certification)**Professional Studies**

Educational Psychology 332, 442, 431*	9
Education 380, 382, 383, 431, 451, 483	18
Education 485	9
Special Education 300*, 310, 311, 383, 384, 385, 404, 405, 416.....	27
Special Education Elective (must be selected from other special education courses, adapted physical education courses, or PSY 330)	3
	<hr/> 66

Program: Emotional Conflict (Senior High Certification)**Professional Studies**

Educational Psychology 332, 431*, 442	9
Education 382, 383, 431, 484	12
Education 486	9

Special Education 300*, 310, 311, 383, 384, 385, 404, 405, 416.....	27
Special Education Electives (must be selected from other special education courses, adapted physical education courses, or PSY 330).....	3
	60

*SPE 300, EPY 329 or EPY 431 are open to students with sophomore classification or above.

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY (EPY)

Wright: Department Head

DESCRIPTION OF COURSES

329. Developmental Psychology (3). This course stresses the following areas of development in the school age person: intellectual, emotional, social, physical, and moral.*

331. Child Psychology (3). The course is an intensive investigation of the research which has been done on children from the developmental approach. It places emphasis upon patterns of growth and development, levels of maturation, and individual differences. The course is oriented toward the expected behavioral syndromes of typical children in the school environment *

332. Educational Psychology (3). Topics covered are learning principles and theories; observing and understanding students' behavior from humanistic, reinforcement, psychoanalytic and developmental viewpoints; and testing and evaluation of student performance.

402. Psychometrics (3). Coverage includes origin, development, and application of psychological tests. Infrequently offered.

403. Psychological Tests and Measurements (3). Topics are the administration, scoring, and interpretation of individual and group intelligence tests. Infrequently offered.

431. Adolescent Psychology (3). An intensive study is made of adolescents. This study stresses the following areas of development: physical, intellectual, emotional, social and moral.*

432. Educational and Psychological Statistics (3). Designed for students in education. The principal statistical methods used in the handling of educational and psychological data are covered. Infrequently offered.

433. Advanced Educational Psychology (3). Evaluation of the major trends in current educational theory and practice based upon sound psychological criteria are emphasized. Infrequently offered.

441. Psychology of the Exceptional Child (3). The purpose is to develop a scientific attitude, a technique of approach, and methods of dealing with the problems of children who deviate from the average. Infrequently offered.

442. Educational Measurement (3). An introduction to measurement and evaluation of elementary through high school students' achievement. The construction and uses of locally made tests and standardized achievement tests will be covered along with basic statistical principles.

*EPY 329, 331, and 431 are open to students sophomore classification or above.

DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

Harris: Department Head

Students working toward a Bachelor of Science degree in Education may choose from two teaching fields. The teaching fields are (a) Health Education and (b) Physical Education. There are three types of certification in Health Education. These include N-12, 4-8, and 7-12. There are three types of certification in physical education. These include N-12, 4-8, and 7-12. Please see professional course requirements under each certification.

Physical Education 101 and BY 321 is in the general studies program for all certifications in health education and physical education. This course is included in the total required hours for each teaching field.

Please see your major advisor for all courses, especially where electives are concerned.

A student may not declare teaching fields in both Health Education and Physical Education.

The department has a Bachelor of Science degree with a major in recreation, offered as a non-teaching degree.

Students obtaining a 4-8 or 7-12 certification in Health Education or Physical Education must declare a second teaching field.

A total of 52 hours must be in courses numbered 300 or above.

PHYSICAL EDUCATION COURSES

101. Introduction and Foundations of Health and Physical Education (3). An introduction to the profession including physical activities, professional organizations, career opportunities, historical development, and development of a sound professional philosophy. Particular emphasis on health and physical education. Emphasis on areas of school health program, health topics, health problems, organizations, and fitness.

110. Basic Skills in Physical Education I (3). Techniques and progressions in soccer-speedball, softball, and track and field. Theory and teaching progression included.

160. Lifetime Sports I (3). Basic skills and instruction in the following activities: tennis, archery, and badminton. Theory and teaching progression included.

210. Basic Skills in Physical Education II (3). Basic skills and instruction in volleyball, basketball, and gymnastics. Theory and teaching progression, included.

300. Practicum in Physical Education (3). Prerequisite: nine hours in physical education including PE 101. Directed experience in observation and participation in physical education classes. Seminars will be held in conjunction with this course.

361. Physical Education in Elementary School (3). A study of physical education activities particularly suited to children. Considers the nature of the child, activities that contribute to his/her development, and methods of teaching physical education.

362. Kinesiology (3). Prerequisite BY 321. A science of human motion, and analysis of body movements and action of muscles in human activities.

451. Test and Measurements in Physical Education (3). The use of tests and measurements in physical education; techniques of test evaluation; administration; interpretation of results; emphasis on physical fitness, motor body mechanics, sports skills, and knowledge tests. Prerequisites: 101 and junior standing.

462. Physical Education Program (3). Prerequisites: 101, 110, 160, 210 and junior standing. The study of curriculum, methods of teaching, the study of skills, the program in physical education, and the organization and administration of physical education.

*PE 361 is not required for certification in grades 7-12.

INTEREST AREAS

COACHING

333. Care of Athletic Injuries (3). Prevention and correction of accidents in athletics; the use of support methods, conditioning exercises, medical examinations, and therapeutic aids.

391. Methods and Principles of Coaching (3). Theory and technique of coaching. Psychological aspects and scientific principles of movement are considered.

392. Theory of Football and Basketball (3). Deals with theory. Consideration given to rules, team strategy, and training.

393. Theory of Baseball and Track and Field (3). Deals with theory. Consideration given to rules, team strategy, and training.

421. Officiating and Intramural Sports (3). Organization and administration of the intramural program; theory and practice in officiating in team, individual and dual sports. Laboratory arranged.

DANCE

115. Folk, Square, and Social Dance (3). Theory and technique of folk, square and social dance.

120. Modern Dance I (3). Theory and technique of modern dance.

122. Modern Dance II (3). Theory and technique of advanced modern dance. Prerequisite: 120 or permission of instructor.

130. Ballet I (3). Theory and technique of ballet.

131. Ballet II (3). Theory and technique of intermediate ballet. Prerequisite: 130 or permission of instructor.

140. Ethnic Dance (3). Theory and technique of jazz, Spanish, Oriental, and other forms of dance.

175. Dance Laboratory (1). Laboratory practice of different types of dance. Prerequisite: One dance course or permission of instructor.

201. Dance Composition (3). Choreographic studies and exploration of dance movements.

275. Dance Laboratory (1). Laboratory practice of different types of dance. Prerequisite: 175.

301. History of Dance (3). A study of the history of dance. A review of the major events and personalities contributing to the development of dance.

375. Dance Laboratory (1). Laboratory practice of different types of dance. Prerequisite 175, 275.

475. Dance Laboratory (1). Laboratory practice of different types of dance. Prerequisite: 175, 275, 375.

GYMNASTICS

171. Beginning Gymnastics (3). Techniques of floor exercise tumbling and apparatus. Methods of teaching also included.

172. Intermediate Gymnastics (3). Techniques of floor exercise tumbling and apparatus. Methods of teaching also included.

173. Advanced Gymnastics (3). Techniques of floor exercise tumbling and apparatus. Methods of teaching also included.

AQUATICS

150. Beginning Swimming (3). The adaptation to the water and basic strokes of swimming. Non-swimmers only.

153. Advanced Life Saving (3). Methods and knowledge of water safety, survival and rescue techniques are included. Senior Life Saving Certificate will be given.

155. Water Safety (3). Analysis of swimming strokes, practice of rescue techniques, and practice in teaching swimming are included. The student must have a life saving certificate. Safety in water is stressed.

156. Synchronized Swimming (3). Water ballet, movements in the water, precision swimming leading to a water show.

LIFETIME AND CONDITIONING AREA

102. Golf, Handball, and Racquetball (3). Skill and technique in golf, handball, and racquetball.

103. Weight Training, Wrestling, and Conditioning (3). Skill and techniques in weight training, wrestling and conditioning.

104. Aerobics and Fitness (3). Included is a scientific program of exercise based on running. The course is geared toward the overall fitness and health of the body. A unique system of measuring progress toward maximal health is included. The point system of aerobics is discussed.

191, 192, 193, 194, 195, 196, 197, 198. Varsity Sports (1). Successful participation in major varsity sports (Male and Female).

EXERCISE SCIENCE

307. Essentials of Functional Fitness (3). Course will focus on development of program for life-long fitness. Attention will be directed toward obtaining optimal benefits from muscular strength and endurance, flexibility, cardiovascular function and weight control programs.

400. Exercise Physiology (3). Prerequisite: By 321. The study of the effects of exercise on the various human physiological systems. Special attention will be given to energy metabolism, cardiovascular parameters, pulmonary function, neuromuscular intergration, and environmental factors.

405. Scientific Principles of Athletic Conditioning (3). Prerequisite: BY 321. Application of scientific principals to the training and conditioning of athletics. Emphasis will be directed toward strength, endurance, and speed acquisition, ergogenic aids, and nutrition.

SPECIAL PHYSICAL EDUCATION

380. Developmental and Special Education (3). Designed to provide students with basic knowledges and skills of the physical abilities of special needs of children. Emphasis will be on diagnosis and prescriptive teaching for study of LD, MR, auditory and visually impaired, orthopedically disabled, EH.

382. Aquatics for the Handicapped (3). The use of the water medium for therapy, recreation and fun. Emphasis will be on practical application of the pool as a medium for successful physical activity. Active student participation is required.

385. Practicum in Special Physical Education (3). Designed to provide the student with approximately 60 hours of inservice training with the exceptional person. Active participation in the Children's Developmental Play Program is permitted.

390. Play Theory and Play Environment (3). Provides theoretical foundations for play and work in innovative play environments. Emphasis will be on new play equipment and will include a class play project.

401. PE Activities for Exceptional Children (3). Same as SPE 401. See SPE 401 for course description.

403. Special Olympics and Athletics for Special Populations (3). Historical and current trends overview of sports for the handicapped. All types of handicapping conditions will be considered. Special attention will be on Special Olympics activities. Active involvement in the Special Olympics will be required.

460. Foundations in Perceptual-Motor Development (3). Theories in perceptual-motor development will be presented with emphasis on programs and activities which are appropriate for young children.

HEALTH (HLT)

212. Personal and Community Health (3). The development of habits, attitudes, and knowledge concerning health, and the professional preparation of individuals for work in the community health field.

213. Personal Health (3). The physiological basis of correct living, including fundamental biological facts; the psychological aspects of human behavior as they affect the individual health conduct and mental hygiene; the agents of disease and modern scientific methods of controlling them.

214. Community Health (3). Study of international, national, state and local health problems, and governmental and voluntary health agencies which deal with these problems. Incidence and prevalence of specific community health problems; solutions suggested through coordinated efforts of school, health and welfare organizations.

232. Emergency Medical Service (3). This course is designed for in-depth study of emergency medical treatment in case of accidents or serious illness. The study of body functions, body framework and all types of injuries are considered.

233. Advanced Emergency Medical Service (3). Prerequisite: PE 232. Advanced study of emergency medical treatment. Practical laboratory experiences included.

312. Health Problems (3). This course deals with current problems in the area of health. An overview of health problems confronting the student in today's society. The course includes an analysis of those problems arising from a wide variety of personal, social and environmental factors.

315. Foundations of Health Science (3). An historical and philosophical study of the growth and development of health science.

318. Health Education for Special Populations (3). An examination of the nature and needs of special populations. Current research in this area will be explored by lecture, films and readings to better understand the area.

350. The School Health Program N-6 (3). Organization of the total health program including health services, healthful school environment and health instruction. Emphasis is placed on methods of organizing and implementing health instruction in the elementary school and the promotion of health through the school environment.

360. Health Programs in Grades 7-12 (3). This course deals with methods and materials in health education including health services, healthful school environment, and health instruction.

412. Special Projects in Health Education (3). Student participation in solving actual problems related to health. Prerequisite: Permission of department head.

431. Applied Physiotherapy (3). Laboratory experience in analysis and application of therapeutic modalities, e.g. exercise, massage, heat, hydrotherapy.

RECREATION (RE)

221. Introduction to Recreation (3). The basic concepts of recreation. History of recreation movement, theories of play and leisure, and philosophies of recreation.

271. Recreational Games (3). Four class periods a week. Technique and skills in the following activities: deck tennis, aerial tennis, shuffleboard, table tennis, horseshoes, croquet, sacket, and other recreational games.

303. Recreation Leadership (3). Prerequisites: PE 221, 271. The role of leaders in relation to objectives, organization, leadership skills, and procedures as related to recreation, park and leisure-oriented settings.

310. Camping and Outdoor Education (3). The out-of-doors and its potential for enhancing the recreation program. Special emphasis is placed on activities in the out-of-doors. A review of the developments in out-of-doors education. Offered spring semester only.

311. Recreation for the Aged (3). Prerequisites: PE 221, 271, 303. To acquaint the student with the nature and background of the wants and needs of the aged. To provide the student with knowledge of the kinds of recreational activities suitable for the aged and to explore future trends and problems in recreation for the aged.

341. Recreation Seminar (3). A course designed to introduce the student to current problems, trends, and issues in the area of leisure.

430. Recreation Administration (3). Methods of organizing and administering recreation departments at the local level. Prerequisites: 221, 271, and junior standing.

435. Field Experience in Recreation (6). Practical field experience in selected programs. Offered summer semester only. Prerequisites: 430 and senior standing.

BACHELOR OF SCIENCE IN EDUCATION**Teaching Field: Physical Education or Health Education**

Each of the certifications in Health Education and Physical Education require the same General Studies courses. General Studies requirement includes the following:

English 101, 102, 141, 201 or 202, 301 or 302	14
Instructional Media 101	1
Economics 220 or 221 or 224.....	3
History 101 and 102 or 201 and 202.....	6
Political Science 201 or 202 or Psychology 201 or Sociology 221 or 310 or Geography 241	3
¹ Twelve semester hours in the following areas:	
Biology 101, 102, 103, 104, 221, 222, 241, 242	3-6
Chemistry 105, 106, 107, 108, General Science 221, 222 Physics 101, 101L, 102, 102L, Geography 110, 111	3-6
Mathematics 101, 102, 103, 104, 133, 141, 142.....	3-6
¹ Nine semester hours from two of the following areas:	
Humanities, must include a course in Art, Music, or Speech Communication/Theatre	1-5
Social Science/Science/Mathematics	0-4
Biology 321.....	4
Physical Education 101	3
¹ Approved courses from the teaching field(s) and approved electives.....	9

**Professional Studies
(Health Education, 7-12)**

Special Education 300.....	3
Ed Psy 332*, 431, 442.....	9
Ed 382, 431*, 484, 383	12
Ed 486*.....	9
HLT 212, 232, 312, 360.....	12
Twelve hours electives to be selected from:	
HLT 214, 233, 315, 318, 402, 412, 466, 488; PE 362, 400;	
HEC 320, 328, SY 310, 312, 364.....	12
² Approved courses from the teaching field(s) and approved electives.....	11-25
	68-82
Total	128-142

¹By Advisement

*Professional Semester

²Courses taken depends upon required hours for second teaching field.

**Professional Studies
(Health Education, 4-8)**

Special Education 300.....	3
Ed Psy 332*, 431, 442.....	9
Ed 380, 382, 383, 431*, 451, 483	18
Ed 485*.....	9
HLT 212, 232, 312, 360.....	12
Twelve hours to be selected from: HLT 214, 233, 315, 318, 402, 412, 466, 488; PE 362, 400;	
HEC 320, 328; SY 310, 312, 364.....	12
² Approved courses from the teaching field(s) and approved electives.....	5-25
	68-88
Total	128-148

*Professional Semester

²Courses taken depends upon required hours for second teaching field.

**Professional Studies
(Health Education, N-12)**

Special Education 300.....	3
Ed Psy 329, 332*, 442.....	9
Ed 382, (342 or 383), 431*, 451, 484	15
Ed 487*.....	9
HLT 212, 232, 312, 350, 360.....	15

Twenty-one hours to be selected from: HLT 214, 233, 315,
318, 402, 412; PE 362, 400; HEC 320, 328; SY 310,
312, 364..... 21

72

Total 132**

* Professional Semester

**Note: The total of 132 may be reduced by three hours by taking three hours in the general studies electives in the major field.

**Professional Studies
(Physical Education, 7-12)**

Special Education 300.....	3
Ed Psy 332*, 431, 442.....	9
Ed 382, 383, 431*, 484.....	12
Ed 486*.....	9
PE 110, 160, 210.....	9
HLT 212, 232.....	6
PE 362, 451, 462.....	9
² Approved courses from teaching field(s) and approved electives.....	8-20
	<hr/> 68-80

Total 128-140

" Professional Semester

²Courses taken depends on hours required for second teaching field.

**Professional Studies
(Physical Education, 4-8)**

Special Education 300.....	3
Ed Psy 332*, 431, 442.....	9
Ed 380, 382, 383.....	9
Ed 431*, 451, 483.....	9
Ed 485*.....	9
PE 110, 160, 210.....	9
HLT 212, 232.....	6
PE 362, 451, 462.....	9
² Approved courses from teaching field(s) and approved electives.....	5-25
	<hr/> 68-88

Total 128-148

" Professional Studies

²Courses taken depends on hours required for second teaching field.

**Professional Studies
(Physical Education, N-12)**

Special Education 300.....	3
Ed Psy 329, 332*, 442.....	9
Ed (342 or 383), 382, 431*, 451, 484	15
Ed 487*	9
PE 110, 160, 210.....	9
HLT 212, 232.....	6
PE 361, 362, 451, 462	12
Plus nine hours of electives to be chosen from: PE 300, 333, 391, 392, 393, 421, 201, 301, 221, 271, 303, 310, 311, 341, 400, 405, 380, 382, 385, 390, 401, 403, 460, HLT 213, 214, 233, 315, 318, 350, 360, 412, 431	9
	72
Total	132**

* Professional Semester

**Note: The total of 132 may be reduced by three hours by taking three hours in the general studies electives in the major field.

BACHELOR OF SCIENCE

MAJOR IN RECREATION

Instructional Media 101	1
English 101, 102, 141, 201, 202, (or 301, 302)	14
History 201, 202	6
Social Science Electives.....	6 ¹
Biology 101, 102, 103, 104, 321.....	12
Psychology 201.....	3
Mathematics 133.....	3
General Science 221, 222	6 (b)
Management 383.....	3
Recreation 221, 271, 310	9
Recreation 430	3
Recreation 435	6
Recreation Electives.....	6
Health 232.....	3
Physical Education 421	3
² Approved Electives and Minor.....	44 (c)
	128 (a)
Total	128 (a)

¹ At least 3 of the 6 hours must be in a social science other than history.

² Choice of minor must be approved by department head. A student may not use a physical education minor.

(a) Of the total hours 52 must be numbered 300 or above.

(b) Acceptable Laboratory Science.

(c) By Advisement

COLLEGE OF LIBRARY SCIENCE. COMMUNICATIONS, AND INSTRUCTIONAL MEDIA

Alta Millican: Dean

Professor: Millican

Associate Professors: Freeman, King, Merrill

Assistant Professors: Brazier, Rives, Stewart

Instructors: Cain, Caver, Franklin, Harris, Jones

Knowles, Remer, Smith, Taylor, Turner, Wear, Whitesel, Williams

The requirements for a minor in communications technology may be met by taking twenty-one semester hours during the junior and senior years from the following courses: 350, 403, 451, 452, 453, 454, 455, 457, and Art 369.

At the graduate level the requirements for a major in instructional media may be met by taking courses listed in the Graduate Bulletin.

DESCRIPTION OF COURSES

101. Orientation to Instructional Media (1). A pre-professional course, not to be used for certification. Required of all freshmen. The use of printed and audio-visual media.

350. Mass Communication and Society (3). An introductory survey of the structure, functions, philosophy, process, and effects of mass and interpersonal visual and aural communication techniques. Each student will produce and present a short multi-media program.

Art 369. Photography (3). Prerequisite: Instructor's approval. May be counted as course in the department of instructional media. For course description, see Art 369.

403. Audio-Visual Media in Advertising and Marketing (3). For business and media. The practical application of audio-visual techniques to the fields of marketing and advertising. Topics discussed include visualization, terminology, trends and theories in graphic and visual communications, characteristics of broadcast media, interrelations between basic message components and production analysis of audio-visual advertising.

411. Books and Related Materials for Children (3). Examination and evaluation of printed and other types of materials in view of their relevance to the needs and interests of various age and grade levels of elementary school children. Selection aids and principles and criteria for selecting materials.

451. Audio-Visual Materials and Equipment (3). Prerequisite: Junior standing or Dean's approval. For education and library science. Examination and evaluation of films, filmstrips, slides, exhibits, charts, maps, globes, recordings and recording devices, radio and television programs. The contribution of audio-visual materials to the elementary and secondary curriculum; sources of audio-visual materials; the operation, care and housing of necessary equipment.

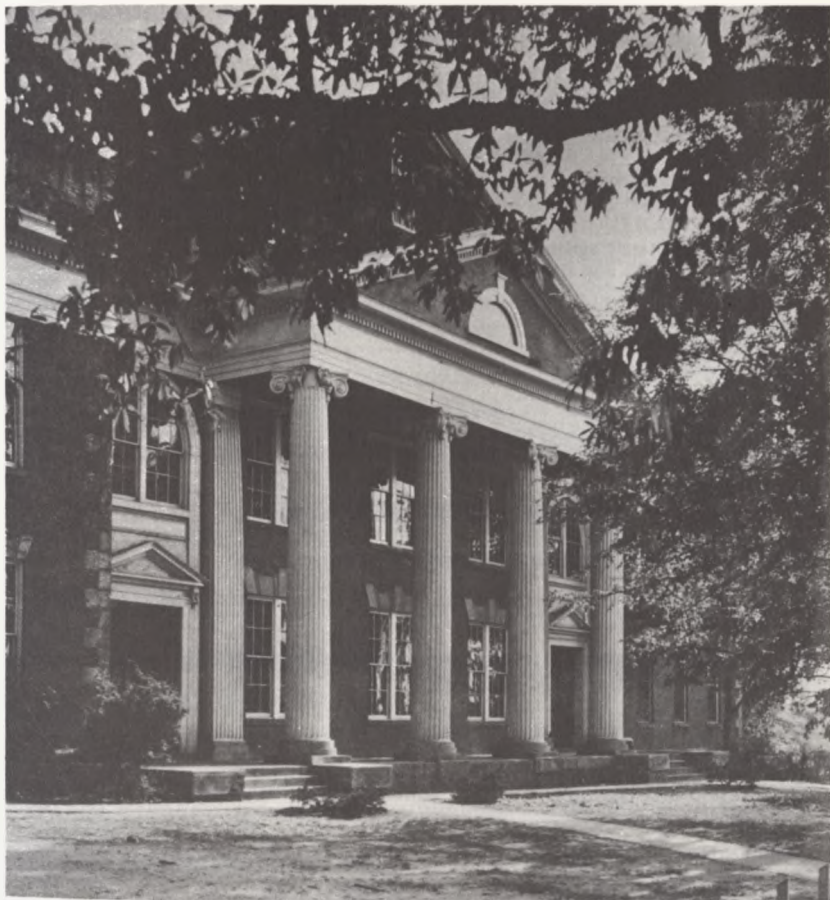
452. Production, Uses, and Equipment for Instructional Television I (3). Deals with principles and procedures of educational television production, utilization of materials and equipment. Basic organization of a television studio, control room, and station personnel. Types of television cameras, lenses used, lighting, special effects, scenery, graphics, audio, film and video tape recording. Care and handling of equipment and proper operation. In addition, students will prepare and present lessons and serve as members of the production crew.

453. Radio Broadcasting (3). Principles and procedures of radio announcing, basic organization of a radio station, personnel and their duties, operation of equipment, FCC requirements for a third class radiotelephone license. Ten hours practicum: on air operation, operator maintenance, and log entries.

454. Slide and Motion Picture Production (3). Provides practical and theoretical knowledge of techniques. Individual and small group work to produce slide sequences and short motion pictures. Experiences in planning, scripting, photographing and editing. (Registration with permission of instructor.)

455. TV Production II (3). Prerequisite: 452. Directed experience in producing and directing television productions: selection of materials, research, methods of presentation, writing script; technical facilities, including sets, graphic material, cameras, audio, lighting, special effects, rehearsal and production editing.

457. Practicum in Communications Technology (3). Prerequisite: 15 hours of media courses. Directed experience in the production, procurement, maintenance, distribution, and utilization of communications technology.



Hames Hall was renovated and expanded in 1908 when the State Normal School moved from downtown Jacksonville back to its original location. The stately building was originally constructed in the 1850's and housed the male academy, Calhoun Grange College, and Calhoun College, predecessors of the State Normal School.

ALBERT P. BREWER COLLEGE OF CRIMINAL JUSTICE

Thomas Barker: Dean

Associate Professors: Barker, DesRoches, Nicholson, Starling

Assistant Professors: Bohm, McCarthy, Sullenger

The College of Criminal Justice offers a Bachelor of Science degree with majors in law enforcement, corrections and forensic science. The graduate is prepared to function professionally in the major aspects of the administration of justice: enforcement, courts, corrections, and forensic science.

BACHELOR OF SCIENCE DEGREE

Major in Law Enforcement

Instructional Media	1
English 101, 102, 141	8
English 201, 202; or English 301, 302; or English 331, 332, or any first and second semester combination of these courses	6
History 201, 202	6
Political Science 201	3
Social Science Electives	3
Biology 101, 102,* 103, 104.....	8-10
Psychology 201.....	3
Mathematics 101, 104 or 122.....	6
Law Enforcement 101.....	3
Sociology 221, 320	6
Law Enforcement 351, 352, 361, 370, 460, 461, 471, 472	24
Law Enforcement Electives	9
Approved Electives or Minor**.....	40-42
Total	128

A minor in Law Enforcement requires twenty-one hours of courses in Law Enforcement as shown in the following curriculum outline:

Introduction to Criminal Justice System LE 101.....	3
Criminal Law LE 351	3
Police Administration LE 370	3
Law Enforcement Electives	12
Total	21

*A student with a minor in Forensic Science must take CY 105, 106, 107, 108 in lieu of Biology.

**A student majoring in Law Enforcement may minor in any subject area in which the University offers a minor. Requirements for the minor are found within the appropriate subject area listing in this catalog.

BACHELOR OF SCIENCE DEGREE

Major in Corrections

Instructional Media	1
English 101, 102, 141	8
English 201, 202; or English 301, 302; or English 331, 332, or any first and second semester combination of these courses	6
History 201,202	6
Political Science 201	3
Social Science Electives.....	3
Biology 101, 102, 103, 104	8
Psychology 201.....	3
Sociology 221, 320	6
Mathematics 101, 104, or 122.....	6
Law Enforcement 101.....	3
Corrections 300, 310, 311, 315, 322, 417, 420, 473, 474	27
Corrections Electives*	9
Approved Electives or Minor**	39
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Total	128

A minor in Corrections requires twenty-one hours of courses in Corrections as shown in the following curriculum outline:

Introduction to Criminal Justice System LE 101.....	3
Introduction to Corrections COR 300.....	3
Counseling Techniques in Corrections COR 311	3
Corrections Electives	12
<hr/>	
Total	21

* Appropriate courses should be selected with the advice of the student's advisor.

**A student majoring in Corrections may minor in any subject area in which the University offers a minor. Requirements for the minor are found within the appropriate subject area listing in this catalog.

BACHELOR OF SCIENCE DEGREE

Major in Forensic Science (Investigation)

Instructional Media 101	1
English 101, 102, 141	8
English 201, 202; or English 301, 302; or English 331, 332, or any first and second semester combination of these courses	6
History 201, 202	6
Political Science 201.....	3
Psychology 201.....	3
Mathematics 102, 103	6
Chemistry 105, 106, 107, 108.....	10
Social Science Elective*	3
Law Enforcement 351, 352, 460, 461	12
Forensic Science 301, 430, 431, 456, 465, 466	18

Select 9 hours from the following:

PE-232, LE-323, 324, 361, 471, 472,

FSC 433..... 9

Approved Electives or Minor**..... 43

Total128

*Social Science electives from: History, Political Science, Sociology, Economics, Geography.

**A student majoring in Forensic Science (Investigation) may minor in any area in which the University offers a minor.

Minor in Forensic Science (Investigation)

Introduction to Forensic Science FSC 301..... 3

Criminalistics I, FSC 430..... 3

Criminalistics II, FSC 431..... 3

Investigation I, LE 460..... 3

Investigation II, LE 461..... 3

Homicide Investigation, FSC 456..... 3

Law Enforcement Elective*..... 3

Total 21

*Select elective from list of electives under Major in Forensic Science.

**Forensic Science minors are also required to earn CY 105, 106, 107, and 108.

DESCRIPTION OF COURSES

LAW ENFORCEMENT (LE)

101. Introduction to Criminal Justice System (3). Survey of the agencies and processes involved in the Criminal Justice System. The police, the prosecutor, the public defender, the courts and corrections.

Sociology 320. Criminology (3). May be counted as a course in the College of Criminal Justice. For description, see Sociology 320.

323. Civil Defense (3). Presentation of the Civil Defense radiological monitoring and Shelter Management Programs.

325. Criminal Courts: Judges, Juries, Lawyers and Controversies (3). An analysis of the roles of the major participants in the Criminal Judicial System; the Court's structure and functions and selected critical issues such as sentencing and plea bargaining. (May be counted as an elective by Corrections majors.)

351. Criminal Law (3). Prerequisite: LE 101. Analysis of the origin and sources of criminal law as well as definition of parties to crimes and affirmative defenses. Discussion of specific crimes at common law and in state and national statutes.

352. Evidence (3). Prerequisite: LE 101. Analysis of the rules of evidence, their origins and types. Constitutional limitations upon their use, methods of safeguarding their value. The trial and techniques for testifying.

361. Constitutional Law for Criminal Justice (3). Prerequisite: LE 101. Analysis of the Constitution of the United States as it affects the law enforcement and corrections field to wit: the 1st, 4th, 5th, 6th and 8th Amendments to the Constitution.

362. Constitutional Law for Criminal Justice II (3). Prerequisite: LE 361. A study of selected constitutional issues in the administration of justice including assistance of counsel, fair trial guarantees, human punishment and freedom of expression. (May be counted as an elective by Corrections majors.)

- 363. Foundations of Law Enforcement (3).** An examination of the foundations of American Law Enforcement from its cultural heritage in England to the present.
- 370. Police Administration (3).** Prerequisite: LE 101. Organizational structure and coordination of all branches of law enforcement agencies; police, staff, and auxiliary function, their interrelationships and interdependence. (May be counted as elective by Corrections majors).
- 371. Police Personnel Management (3).** Prerequisites: LE 101, 370. The fundamentals of leadership and essentials of personnel management as applied to police administration; recruitment, selection tests, standards and management techniques; personnel evaluation and promotion, job classification, salary standardization, selection for promotion, rating of employee performance.
- 376. Traffic Control (3).** Prerequisite: LE 101. The traffic control function as a part of the police role; history and growth of the traffic problem; analysis of the organization for traffic control; accident investigation; traffic flow pattern, education and enforcement; traffic laws, high accident frequency locations.
- 380. Patrol Procedure and Communications (3).** Prerequisite: LE 101. Techniques of patrol and observation; handling complaints and called-for-service; mechanics of arrests; officer's notebook procedure and report writing.
- 395. Crime Prevention (3).** Prerequisite: LE 101. Analysis of the role of the Criminal Justice System in preventing crime. Community involvement as a source of preventing crime. Techniques for evaluating prevention programs.
- 396. Introduction to Security (3).** The systems, techniques and measures designed to protect persons and property against crimes of robbery, burglary, larceny-theft, arson and vandalism.
- 400. Fundamentals of Protective Systems (3).** The criminal threat, protective systems concept, systems configuration and cost benefit analysis of currently available protective systems.
- 402. Police and Community Relations (3).** Prerequisite: LE 101. Study of the numerous and complex factors involved in the area of human relations as it affects policing and police management.
- 406. Retail Security (3).** Employee theft, shoplifting, robbery, burglary, shortages, special fire problems, insurance recovery.
- 411. Victimless Crimes (3).** Study of the controversial area of law that deals with "consensual crimes". Topics to be included for discussion may be: homosexuality; drugs; obscenity and pornography; prostitution; gambling. The history of legislative enactments and judicial decisions will be dealt with, as well as the social and political implications of enforcement to both police agencies and their clients.
- 460. Investigation I (3).** Prerequisites: LE 101, 351, 352, 361. Introduction to criminal investigation, including a consideration of conduct at the crime scene; theory and practice of investigation; collection and preservation of evidence; interview and interrogation of witnesses and suspects; the use of informants; ethical problems; methods of surveillance; psychological and physiological aspects of deception.
- 461. Investigation II (3).** Prerequisite: LE 460. A practical, in-depth application of investigation techniques. Emphasis will be placed upon specific policies, procedures, and methods used to recover and identify all types of physical evidence as related to crime scenes and specific crimes, including larceny, burglary, robbery, homicide, sex crimes and arson.
- 471, 472. Law Enforcement Internship (3) (3).** Prerequisites: Junior standing, LE 101, 351, 352, 370 and consent of instructor. Supervised work experience in law enforcement. The student is required to attend a preannounced orientation one semester prior to internship. (Not open to in-service personnel).

482/483/484. Independent Study (1 hours each). An opportunity for the student with advanced standing to explore areas of special interest. Students seeking admission must be an LE major, have advanced standing and secure approval of instructor and Dean.

485/486/487. Advanced Seminar in Law Enforcement (3) (3) (3). An examination of current issues in Law Enforcement. The content will vary each semester. Students seeking admission must have advanced standing and secure approval of instructor.

CORRECTIONS (COR)

LE 101. Introduction to Criminal Justice System (3). See description under Law Enforcement.

300. Introduction to Corrections (3). Prerequisite: L.E. 101. Philosophical foundations of punishments, historical developments in American penology. Corrections in contemporary America. (May be counted as an elective by Law Enforcement Majors)

310. The Correctional Institution (3). Prerequisite: COR 300. An examination of the nature and impact of the correctional institution. Emphasis is placed on the social processes and problems occurring within the prison.

311. Correctional Techniques (3). Prerequisite: COR 300. An introduction to correctional strategies and the theories on which they are based. Among the topics discussed are counseling, psychotherapy and psychoanalysis, humanistic psychology, learning theory and behavior modification.

315. Community-Based Corrections (3). Prerequisite: COR 300. A survey of non-institutional correctional programs focusing on alternatives to incarceration in community settings. Programs reviewed include pre-release, parole, halfway houses, restitution centers, probation, and community correctional centers.

Sociology 320. Criminology (3). May be counted as a course in the College of Criminal Justice. For description, see Sociology 320.

322. The Juvenile Agencies (3). Prerequisites: LE 101, COR 300. Examination of the historical aspects of the juvenile system with emphasis on juvenile rights in the present juvenile court system and pretrial diversion techniques. (May be counted as an elective by Law Enforcement Majors).

LE 351. Criminal Law (3). Prerequisite: LE 101. See description under Law Enforcement.

LE 352. Evidence (3). Prerequisite: LE 101. See description under Law Enforcement.

353. Correctional Law (3). Prerequisite: COR 300. Legal problems of the convicted from conviction to release: presentence investigation, sentencing, civil rights loss and restoration, and other legal problems confronting the convicted.

LE 361. Constitutional Law for Criminal Justice (3). Prerequisite: LE 101. See description under Law Enforcement.

LE 362. Constitutional Law for Criminal Justice II (3). Prerequisite: LE 361. See description under Law Enforcement.

LE 395. Crime Prevention (3). Prerequisite: LE 101. See description under Law Enforcement.

405. Theories of Crime Causation (3). An examination of biological, psychological, psychiatric, sociological, political and economic theories of crime causation. (May be counted as an elective by Law Enforcement majors).

LE 411. Victimless Crimes (3). See description under Law Enforcement.

417. Criminal and Deviant Behavior (3). Prerequisite: COR 300. An analysis of criminal and deviant behavior systems with an emphasis on classical and contemporary theories of crime causation. (May be counted as an elective by Law Enforcement Majors).

420. Probation and Parole (3). Prerequisites: COR 300, 311. Development, organization, operation of probation and parole with emphasis on alternatives to incarceration. (May be counted as an elective by Law Enforcement Majors).

425. Correctional Management (3). Prerequisites: COR 300, 311, 420. An analysis of contemporary theories relating to administrative behavior in the correctional setting.

430. The Evolution of Correctional Punishment (3). A survey of the history of correctional punishment with special emphasis on the relationship between specific forms of punishment and the social structure.

473, 474. Corrections Internship (3) (3). Prerequisites: Junior standing, LE 101, COR 300, 310, 420 and consent of instructor. Supervised work experience in Corrections. The student is required to attend a preannounced orientation one semester prior to internship. (Not open to in-service personnel).

482/483/484. Independent Study (1 hour each). An opportunity for the student with advanced standing to explore areas of special interest. Students seeking admission must be COR major, have advanced standing and secure approval of instructor and Dean.

485/486/487. Advanced Seminar in Corrections (3) (3) (3). An examination of current issues in corrections. The content will vary each semester. Students seeking admission must have advanced standing and secure approval of instructor.

FORENSIC SCIENCE (FSC)

301. Introduction to Forensic Science (3). The student is introduced to the development of Forensic Science and its contribution to the Criminal Justice System and the applications of the scientific discipline to the examination and analysis of physical evidence. (May be counted as an elective by Law Enforcement Majors).

LE 351. Criminal Law (3). Prerequisite: LE 101. See description under Law Enforcement.

LE 352. Evidence (3). Prerequisite: LE 101. See description under Law Enforcement.

430. Criminalistics I (3). Prerequisites: FSC 301 and CH 105, 106, 107, 108. Methods of scientific analysis, comparison and identification of physical evidence; blood and body fluids, casts and molds, detective dyes, fingerprints and trace evidence. (May be counted as an elective by Law Enforcement Majors).

431. Criminalistics II (3). Prerequisite: FSC 430. Methods of scientific analysis, comparison and identification of physical evidence: firearms, tool marks, document examination, arson, drugs and explosives. (May be counted as an elective by Law Enforcement Majors).

433. Contemporary Lie Detection (3). Prerequisite: Consent of the instructor. To give law enforcement students and other socially-concerned persons an overview of scientific detection of deception. The techniques of polygraph and ancillary matters will be covered in some depth, but the course will not prepare anyone to conduct detection of deception examination. (May be counted as an elective by Law Enforcement Majors).

456. Homicide Investigation (3). Prerequisite: LE 461. Special problems involved in homicide investigation including the forensic autopsy. (May be counted as an elective by Law Enforcement Majors).

LE 460. Investigation I (3). Prerequisites: LE 351, 352. See description under Law Enforcement.

LE 461. Investigation II (3). Prerequisite: LE 460. See description under Law Enforcement.

465. Scientific Evidence and the Law (3). Prerequisite: FSC 301. The nature of Scientific Evidence; a study of the principal court decisions which apply the scientific disciplines to the analysis of physical evidence; the rules of admissibility and procedures concerning fingerprints, questioned documents, photographs, drugs, hairs, fibers, poisons, firearms, ammunitions, and other tangibles. (May be counted as an elective by Law Enforcement Majors).

466. Drugs of Abuse (3). Prerequisite: FSC 301. Drugs of abuse, their field identification and drug abuse education. (May be counted as an elective by Law Enforcement and Corrections Majors).

LURLEEN B. WALLACE COLLEGE OF NURSING

Roberta Watts: Acting Dean

Assistant Professors: Camp, Ford, Foster, Freeman, Goodman, Harvey, Hembree, Hudson, Jones, Latham, Ledbetter, Lyons, Morris, Roberts, Thornhill, Vines, Watts, Wood

Students are admitted to the nursing major in the Spring Semester only. Requests for Admission into the nursing major are filed with the College of Nursing in June of each year.

At the date of entry into the nursing major, students shall show completion of all prerequisite courses with a Grade Point Average of no less than 1.50. A minimum grade of "C" is required in each prerequisite course. (See College of Nursing Bulletin).

The Admissions Committee of the College of Nursing will review each student's record as a basis for approval into the nursing major. Because of limited clinical resources, all students who qualify may not be admitted.

NURSING (NU)

DESCRIPTION OF COURSES

100. Nursing - Professional Development (2). Exploration of the current and emerging nature of the nursing profession. Emphasis is on an in-depth study of professional nursing roles in various settings and societal influence on the development of nursing and nursing practice. The concept of professionalism is examined.

202. Fundamentals of the Nursing Process (5). The introductory course in professional nursing. Emphasis is placed upon the nursing process, problem-solving, communication, leadership, and manipulative skills. Lab fee; see fee listing.

205. Behavioral Foundations of Nursing Practice (3). A course which explores the behavioral and communication concepts basic to an understanding of self and basic to effective nursing practice.

208. Nursing Process in Health Assessment (3). A sophomore level course. The focus is upon patient assessment and nursing diagnosis, utilizing the approaches of history-taking and physical examination.

210. Clinical Practicum in Nursing (4). Prerequisites: NU 202, 205, 208, and 305. The primary objective is expanded use of the nursing process as it applies to the geriatric client in acute and long-term health settings. Lab fee; see fee listing.

305. Pharmacology (3). An examination of the scientific bases of drug therapy and drug action.

308. Current Issues in Professional Nursing (3). Prerequisites: Sophomore level nursing courses. Orientation to the leadership responsibilities of the professional nurse is interwoven throughout the nursing curriculum. The specific course in leadership explores this development of nursing as a profession.

315. Nursing Process in Maternal-Infant Health (6). Prerequisites: 202, 205, 208 and 305. A course through which the student begins to learn the responsibilities of the professional nurse in providing care for mothers. Lab fee; see fee listing.

318. Nursing Process in Child Health (6). Prerequisites: 202, 205, 208 and 305. An introduction to the professional nurse role in the nursing of children. Lab fee; see fee listing.

321. Nursing Process in Adult Health I (6). Prerequisites: 202, 205, 208, and 305. A course through which the student begins to learn the responsibilities of the professional nurse in providing nursing care for sick adult patients. Lab fee; see fee listing.

330. Concepts of Human Sexuality (3). Junior elective in nursing. Selected conceptions and misconceptions of human sexuality are analyzed in relationship to their implications for the professional nurse role.

332. Concepts of the Addictive Personality (3). Junior elective in nursing. Exploration of the etiology, types, and treatment modalities of addiction.

402. Leadership Concepts in Professional Nursing (3). Prerequisites: nursing courses required in the sophomore and junior years. This senior-level course is designed to enable the student to assume more independently the leader role in the nursing team.

415. Nursing Process in Adult Health II (6). The course is designed to enhance and further develop the student's ability and knowledge to care for patients with complex medical and surgical problems. Lab fee; see fee listing.

421. Nursing Process in Community Health (6). Prerequisites: nursing courses required in the sophomore and junior years. The significance of the family and community to the individual patient is emphasized throughout the nursing curriculum. The senior level course in community health nursing explores in greater depth the role of the professional nurse in coping with the health and illness problems of total families, groups of individuals and groups of families, and total communities. Lab fee; see fee listing.

430. Nursing Process in Mental Health (6). Prerequisites: nursing courses required in the sophomore and junior years. Emphasis occurs throughout the nursing curriculum upon mental health, effective communication, and effective interpersonal relationships. This course is concerned with the role of the professional nurse in meeting the needs of individuals who are mentally ill. Lab fee; see fee listing.

440. Nursing Research (3). Senior elective in nursing, Prerequisites: nursing courses required in the sophomore and junior years. The student chooses, with the counseling of a faculty adviser, an area of nursing in which to develop greater mastery and beginning research competence.

441. Health Legislation (3). Senior nursing elective. A study of health policy-making on the local, state, and national levels which has special implications for the professional nurse.

442. Domestic Travel and Professional Conventions (3). Senior nursing elective. Participation in approved U.S. travel and nursing conventions, seminars, institutes.

443. Foreign Travel (3). Senior nursing elective. Participation in approved foreign travel and international nursing conventions, seminars, institutes.

444. Implementation of the Professional Nurse Role (3). Senior nursing elective. Experience and in-depth analysis of the professional nurse role in a selected clinical setting. Clinical selection limited to completion of prerequisite courses.

445. Concepts of Staff Development (3). Senior nursing elective. A survey of the structure, purposes, and functions of staff development programs in hospitals and other health care agencies.

BACHELOR OF SCIENCE DEGREE

Major in Nursing

Mathematics 101, or 102	3
English 101, 102, 141, 201 and 202 or 301 and 302 or 331 and 332.....	14
History 201, 202	6
Chemistry 105, 107, 164.....	9
Biology 261, 262, 312, 323, 360.....	16
Psychology 201.....	3
Sociology 221 or 224.....	3
Social Science Elective	3
Home Economics 322.....	3
Nursing 100, 202, 205, 208, 210	17
Nursing 305, 308, 315, 318, 321	24
Nursing Junior Elective 330 or 332.....	3
Nursing 402, 415, 421, 430.....	21
Nursing Senior Elective 440 or 441 or 442 or 443 or 444 or 445	3
TOTAL	128



Dressed for the part, this 1913 group of students prepares a meal during a cooking class. The State Normal School was a two year program for elementary teacher training.

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

T. Allen Smith: Dean

Students pursuing a BS in Education may select Comprehensive Social Sciences for a concentration area. Certification for grades 4 - 8 requires the following: Economics, 6 hours; Geography, 6 hours; History, 9 hours; Political Science, 9 hours; Sociology or Anthropology, 3 hours; Social Science electives, 9 hours. Certification for grades 7 - 12 requires the following: History, 15 hours; Economics, 6 hours; Geography, 6 hours; Political Science, 9 hours; Psychology, 3 hours; Sociology, 6 hours; Social Science electives (must include one course in Philosophy or Anthropology), 9 hours. For specific courses required, the student should consult with advisors in the College of Education.

DEPARTMENT OF ECONOMICS

Acting Department Head: Paxton

Associate Professors: Cypert, Paxton, Thompson, Whartenby

Assistant Professor: Prichard

The major in economics requires that thirty hours in economics be taken including Economics 220, 221, 300 or 301 or 302, 321 and 322. Majors are also required to present credits for Mathematics 102 and 103 or 104.

Economics majors in the School of Education are required to take, in addition to the above, EC 354, for a total of 33 hours.

The requirements for a minor are eighteen hours in economics, including Economics 220, 221, 300 or 301 or 302, 321 or 322.

Economics 300, 301, 302, 305, and 420 are completely self-contained and are recommended for juniors and seniors in any field of the social sciences. 354 is open to freshmen and sophomores.

Economics 354 may not be counted toward a major or a minor in economics. It is recommended that any economics major interested in graduate school should minor in mathematics.

EC 482 is open to Marketing majors and minors only.

Economics 224 is open only to those students who are required to take only one course in Economics or who, at the time of registration, plan to take only one Economics course.

Economics 220 is a prerequisite for Economics 221.

DESCRIPTION OF COURSES

220. Principles of Economics I (3). A macroeconomic approach, including money and banking, national income accounting, monetary and fiscal policy, and international economics.

221. Principles of Economics II (3). Prerequisite: EC 220. Microeconomic analysis, including the consumer, the firm, the market and price determination.

224. Survey of Principles of Economics (3). The course will survey the essential elements of macro- and microeconomic analysis, money and banking and international economics. Open to and recommended for all students who are not required to take the two-semester principles of economics sequence in their degree program. This course may count as a social science elective and is recommended for students in the College of Education who need only one course in Economics to meet teacher certification requirements.

- Geography 241. Principles of Economic Geography (3).** May be counted as a course in the Department of Economics. For description, see Geography 241.
- 300. Development of the Modern Western Economy To 1776 (3).** An analytical study of the economic development of Western Europe and Europe's expansion into the new world. Mercantilism is stressed both as a school of economic thought and as an important factor in colonization. An effort is made to seek out and relate growth and development factors relevant to today. The course ends with the publication of Smith's *Wealth of Nations* and U.S. independence.
- 301. Development of the Modern Western Economy, 1776 to 1913 (3).** Growth of the U.S. from an under-developed economy into a highly advanced economy. An effort is made to seek out and study growth and development factors of relevance to today.
- 302. Development of the Modern American Economy, 1913 to Present (3).** An analytical study of modern American economic development from the Federal Reserve Act (1913). The change from a debtor to a creditor nation, the failure of "Splendid Isolation," The "Prosperity Decade," The "Depression Decade," "Keynes' New Economics," "The Employment Act of 1946," Post World War II full employment policies and their implications, national and international, are considered. The role of the United States in the international economy is stressed.
- 303. Money and Banking (3).** Prerequisite: EC 220, 221, or 224. Theoretical economic analysis is balanced with a historical perspective of money and the banking system. Current topics in monetary policy, monetary standards, the commercial banking system, and the federal reserve system are among the topics considered in some detail.
- 305. Capitalism, Socialism and Communism (3).** No prerequisites. A critical examination of different solutions to problems of planning, resource allocation, and of growth in selected market and command type economies. An effort is made to contrast the structures, institutions, and dynamics of diverse forms of politico-economic organization. Special emphasis is given to Marxian thought and to centralized and decentralized models in the light of price-directed and quantity-directed socialism.
- 310. Public Finance (3).** Prerequisite: EC 220, 221, or 224. The economics of the public sector in our "mixed" economy. Government expenditures and revenues and their impact on resource allocation, distribution, economic growth, and stabilization.
- 312. The Economics of Public Choice (3).** Prerequisite: EC 220, 221, or 224. The course will be devoted to a theoretical analysis of non-market decision making as translated through bureaucratic and political institutions. The basic assumption of self-interested behavior, common to most economic analysis, is formally introduced into voting and political party behavior as well as to bureaucratic behavior. Various voting rules will also be discussed with the focus of all the analysis directed toward an evaluation of the efficiency with which resources can be allocated to public goods and services.
- 315. Labor Economics (3).** Prerequisite: EC 220, 221, or 224. Analysis of labor-management-government relationships in the industrialized segment of the American economy. History, structure, policies, and problems of organized labor, wage determination and wage differentials and the market impact of unionism; factors influencing the level of employment and productivity.
- 316. Managerial Economics (Industrial Economics) (3).** Prerequisite: EC 220, 221, or 224. Application of the principles of economics to business management situations. Emphasis is on reconciling simple but meaningful models with the complex situations encountered in business.
- 318. Industrial Organization (3).** Prerequisite: EC 321. An examination of the competitive structure and the associated conduct and performance of American industry, using both theoretical and empirical analysis. Attention will also be paid to government policies designed to affect the performance of the enterprise sector, specifically, anti-trust and regulatory activities.

320. Mathematics for Economists (3). Prerequisites: EC 220, 221, or 224; MS 102, or 104. Use of mathematical concepts in the expression of economic relationships. Emphasis on the concepts and elementary techniques of differential calculus and matrix algebra.

321. Intermediate Microeconomic Theory (3). Prerequisite: EC 220, 221, or 224. The theory of the pricing system under varying market conditions and the distribution of income among the factors of production.

322. Intermediate Macroeconomic Theory (3). Prerequisite: EC 220, 221, or 224. The measurement of national output, including income and employment theory, general equilibrium theory, and the theories of interest, investment, and consumption.

323. Intermediate Monetary Theory (3). Prerequisites: EC 303, 322. Analysis of monetary theory and its application to policy measures.

342. Environmental Economics (3). Prerequisite: EC 220, 221, or 224. The course will be designed to treat environmental degradation as an economic problem. The tools of both micro and macroeconomic analysis will be used to assess the reasons for and appropriate policy to be applied to a wide range of environmental problems. Existing policy, as implemented through specific congressional acts and public institutions, will be discussed and evaluated.

345. The Political Economy of Regulatory Activity (3). Prerequisite: EC 220, 221, or 224. An inquiry into the behavior of some of the important regulatory agencies of the Federal government. Regulatory principles will be developed and various common problems of regulatory agencies will be addressed. Part of the course will be devoted to an analysis of selected Federal regulatory agencies and a discussion of the economic, legal, and political environment within which they must operate.

354. Introduction to Consumer Economics (3). The course is open to freshmen and to majors in the Department of Home Economics. It cannot be applied to either the major or minor in economics. The course analyzes consumer problems relating to budgeting, purchasing, investment and consumer protection.

Business Statistics 360. Business Statistics I (3). May be counted as a course in the Department of Economics. For description, see ST 360. Does not count as a social science elective.

Business Statistics 361. Business Statistics II (3). May be counted as a course in the Department of Economics. For description, see ST 361. Does not count as a social science elective.

420. History of Economic Thought (3). Examination of the main theoretical developments since the beginning of the systematic study of economics in the 18th century. Special emphasis is given to the following major schools of economic thought: Mercantilists, Physiocrats, Classicists, Socialists, Marginalists, Neo-Classicists, Keynesians, and Post-Keynesians.

450. International Economics (3). Prerequisites: EC 321, 322. Economic analysis of international relations. Emphasis will be placed on theories of exchange and international monetary economics with only secondary interest placed on institutional arrangements.

460. Economics of Human Resources (3). Prerequisite: EC 220, 221, or 224. Topics will include demography, problems resulting from population growth, investment in the quality of human resources and the effects of economic policy on population.

461. Economic Development (3). Prerequisite: EC 220, 221, or 224. An introduction to economic development and methodology. Special consideration is given to theories of economic development and growth. Most of the analysis is conducted within the relevant historical, sociological, and political framework.

471. Urban Economics (3). Prerequisite: EC 220, 221, or 224. Introduction to analytical tools commonly employed by economists in the study of urban environment. The course analyzes (1) location theory and spatial distribution of economic activity, (2) economic base theory, input-output techniques, and industrial complex analysis of problems of urban-regional development; and (3) problems of the inner city.

480. Business Cycles and Forecasting (3). Prerequisite: EC 322. Causal factors in the cyclical process; analysis of the relationships among pertinent variables, such as saving, investment, income, output, and employment; measurement of economic fluctuations; forecasting economic activity; stabilization theory and policy.

482. Business Cycles and Forecasting for Marketing (3). Prerequisite: EC 220, 221, 321. OPEN TO MARKETING MAJORS AND MINORS ONLY. Causal factors in the cyclical process as they relate to the firm. Analysis of the relationships among pertinent variables such as saving, investment, income, output and employment, measurement of economic fluctuations, forecasting economic activity, and stabilization theory and policy. Does not count as a social science elective.

486. Econometrics (3). Prerequisites: EC 321, 322, and ST 360. The application of mathematics and statistics to problems of economics. Techniques by which economic theory can be applied to data in order to estimate qualitatively functional relationships.

499. Special Topics and Research (3). Prerequisite: EC 220, 221, or 224. Techniques of research and writing will be emphasized. Each student will select a topic in the field of economics in which he/she has a special interest and will write a thesis-type term paper.

DEPARTMENT OF ENGLISH (EH)

C. Cox: Department Head

Professors: A. Johnson, C. Johnson, McMillan

**Associate Professors: Blanton, Cox, Felgar, Griffin, Mulrairie,
Richards, Searway, Whitton**

Assistant Professors: Clotfelter, Herb, Lovett

Instructors: Malone, Norton, Ogilvie, Reaves, Robertson, Williams

The Department of English offers a major in English for those students *not* seeking teaching certification. This is for the Bachelor of Arts (B. A) degree. Requirements for this major: a minimum of 35 hours, which must include English 101, 102, 141, 201, 202, 301, 302 and either 403 or 404.

The Department offers a minor for students not seeking teaching certification: Requirements for this minor: a minimum of 23 hours, which must include English 101, 102, 141, 301, 302 and either 201 or 202.

The Department offers the following courses of study for students seeking teaching certification:

Requirements for certification in the English teaching field (High School 7-12 and Middle School 4-8): 29 hours, including English 101, 102, 141, 201, 202, 301, 302, 321, 403 or 404, and one three-hour elective chosen from any English course offered except 345, 346, and 347.

Requirements for certification in the Language Arts teaching field (grades 4-8): 48 hours, including English 101, 102, 201, 202, 301, 302, 321, 346, 347, 403 or 404, and 12 hours of English electives. Also required are Drama 242 and 341 or 384.

Requirements for certification in Language Arts teaching field (grades 7-12): 48 hours, including English 101, 102, 201, 202, 301, 302, 321, 346, 347, 403 or 404 and 9 hours of English electives. Also required are Drama 242 and 341 or 384 and Journalism 303 or 304.

For additional information concerning these programs, a student should consult the general information under the School of Education entries in this bulletin; review the checklists available in the English Office (215 Stone Center); or seek help in the School of Education Advisement Office (208 Ramona Wood).

100. Basic English Skills (3). A study of basic English grammar and writing skills. Students who have experienced difficulty in grammar and composition should complete this course prior to enrolling in the English 101-02 sequence. Grades will be A, B, C, or NC. The course may not be used to meet requirements for the English major or minor or an English Education teaching field program.

101, 102. English Composition (3) (3). Two semesters. Prerequisite to all other English courses except 141, which may be taken upon completion of English 101. Spelling, grammar, punctuation, vocabulary, and the mechanics of effective writing. Introduction to literature. Not offered during minimester. In 102 a research paper. **Note: Grading in EH 101. See page 65.**

141. Oral Communication (2). Conversational English with emphasis on the process by which ideas are interchanged orally from one person to another or to a group. Consists of regular classroom presentations, formal speaking, and practice on individual problems in usage and articulation.

201, 202. American Literature (3) (3). Two semesters. Prerequisite: EH 102. The American tradition as presented in literature. 201: Franklin, Irving, Poe, Emerson, Thoreau, Hawthorne, Melville, Whitman. 202: James, Twain and twentieth-century American authors.

301, 302. Survey of English Literature (3) (3). Two semesters. Prerequisite: EH 102. Representative English writers in the major periods of their nation's cultural development from the beginning to modern times, to the age of Johnson in 301, to the modern period 302.

Successful completion of either English 201, 202 or English 301, 302 will be prerequisite for all advanced English courses except English 331, 332, 344, 345, 346, 347, and 351.

311. Romantic Poetry (3). Wordsworth, Coleridge, Byron, Shelley, Keats, Blake, and some lesser figures.

313. Twentieth Century Poetry (3). British and American poets of the 1900's. Hardy and Robinson through Robert Lowell and Dylan Thomas.

321. Advanced Grammar (3). Required of students planning to enter the teaching fields of Language Arts or English as preliminary to all practice teaching. A thorough study of the parts of speech and syntax.

331, 332. World Literature (3) (3). Two semesters. Prerequisite: EH 102. The literature of Greece and Rome, the medieval period, the Renaissance, the Enlightenment, the Romantic Age, Realism and Symbolism, and our own times.

343. The Bible as Literature (3). The artistic ideas, forms, and techniques found in the Hebrew and early Christian books, and an analysis of the artistic merits of the King James translation.

344. Advanced Composition (3). Prerequisite: EH 102. Improving the skills and the knowledge of composition acquired in English 101, 102, deepening the student's understanding of grammar, diction, and usage, and introducing to him/her, through active production, the larger forms, particularly of an expository or argumentative nature.

345. Argumentation and Debate (3). Prerequisite: EH 102. Basic principles and practices of argumentation and debate, together with instruction in parliamentary procedure.

346. Advanced Oral Communication (3). Prerequisite: EH 102. Study and practice of techniques of public speech-making and interviewing including principles of informative and persuasive speaking; question and answer sessions; writing and delivering speeches, reports, defenses; interviewing and being interviewed.

347. Speech for the Classroom Teacher (3). Study and practice in assisting pupils to develop oral communication skills and auditory discrimination ability and in identifying children with speech problems that can be remediated within the classroom setting, as well as those problems in need of referral for remediation.

351. Creative Writing (3). Prerequisite: EH 102. Admission by consultation with instructor. Practice in writing short fiction.

370. The American Novel (3). From its beginning to the present times, dealing with such authors as Cooper, Hawthorne, Melville, and Twain through such moderns as Faulkner, Hemingway, Wolfe, Ellison, and Bellow.

371. Contemporary Fiction (3). The reading and analysis of twentieth century novels, novelettes, and/or short stories selected by the instructor.

373. Contemporary Drama (3). Ibsen to Beckett. The social, moral and psychological interests of recent and contemporary continental, English, and American dramatists.

375. Southern Literature (3). Selected works of poetry and prose by such major Southern writers as George Washington Cable, Thomas Wolfe, William Faulkner, and Flannery O'Connor.

401. Chaucer (3). The poet against the background of the Middle Ages.

402. Milton (3). The major poetry and selected prose.

403, 404. Shakespeare (3) (3). First semester: *Hamlet*, *Othello*, and selections from histories and romantic comedies. Second semester: *King Lear*, *Macbeth*, and selections from later comedies and tragedies.

408. Composition, Grammar, and Literature Taught in the Secondary Schools (3). Study of current theory and practice in teaching English studies in the junior and senior high schools. Development of practical programs to fit teaching needs of individual students. This course does not count for professional education credit.

409. The Art of the Film (3). A consideration of the motion picture in its artistic, technical, and historical contexts. A number of films by major film directors will be viewed during the semester, films ranging from the comedies of the thirties and forties to the suspense of Alfred Hitchcock and the fantasy world of the Hollywood musical.

410. American Drama (3). An examination of American Drama both as theatre and literature, viewing early plays in their historical contexts, with emphasis on major American dramatists beginning with Eugene O'Neill and progressing through Elmer Rice, Maxwell Anderson, Tennessee Williams, Arthur Miller, and Edward Albee. Consideration will also be given to new American playwrights.

411. Eighteenth Century Literature (3). A survey of eighteenth-century English writers, focusing on major satirists, such as Dryden, Pope, Swift, and Fielding; also including Johnson and his circle, some of the major novelists and dramatists; and ending with a survey of the "Pre-Romantics": (the poets of "sensibility").

412. Victorian Poetry (3). Tennyson, Browning, Arnold, Swinburne and other poets of the Victorian Era.

413. English Drama (3). Medieval background of Elizabethan drama and the reading of representative plays of the Tudor and Stuart periods.

441. The History of the English Language (3). Prerequisite: EH 321. A study of the phonology, morphology, and syntax of the English language in all periods of its history.

442. Black Writers in America (3). A survey with emphasis on Wright, Hughes, Ellison, Baldwin, and Malcolm X.

451. Victorian Prose (3). Carlyle, Newman, Huxley, Arnold, and others considered against the background of mid-nineteenth century society and ideology.

452. Literary Criticism (3). Prominent themes and theories, various critical approaches, and outstanding examples of literary criticism from Plato to the present day.

453. The English Novel (3). A history of the British novel, with readings and reports on novelists of the eighteenth, nineteenth, and twentieth centuries.

DEPARTMENT OF JOURNALISM (JN)

DESCRIPTION OF COURSES

Jacksonville State University offers neither a major nor a minor in journalism. The courses below count toward general elective credit only.

201. Introduction to Journalism (3). The general fields of mass communication, especially the rise and growth of journalism in America, with special emphasis on the newspaper.

301. Beginning Reporting (3). Fundamentals of news gathering and news writing including the more common types of news beats and news stories.

302. Beginning Feature Writing (3). Theories, techniques, and practice in writing newspaper and magazine feature articles, including biographical and profile stories, travel articles, and personal experience stories.

303. Fundamentals of Newspaper Layout and Editing (3). Admission by consultation with instructor. Fundamentals of newspaper layout and editing. Paid staff members of the *Chanticleer* are required to enroll. A unit study of each of the following: news writing, feature writing, sports writing, editorial and special columns.

304. Yearbook Editing: Layout and Management (3). Admission by consultation with instructor. The production of a yearbook or annual. Paid staff members required to enroll; volunteer staff members encouraged to do so. Organization of staff; budget, design, layout; photography; copy writing will be determined. Resource visitors will be utilized.

305, 306. Journalism Workshop (3) (3). Prerequisite: Six hours in journalism or equivalent experience. Working closely with *The Chanticleer* advisor, the student will present substantial, acceptable pieces for publication that demonstrate skill in the areas of journalistic writing — features, news stories, editorials, etc. Students must write at least fifteen hundred words per week. Students must be approved prior to registration by the Journalism Committee.

307. Journalism Internship (3) To include work in a professional newspaper office (40 hours per week during summer terms, 20 during regular terms). The internship will involve supervised work/study in the following areas: general overview of the newsroom; feature writing; and news writing. Interns should have reached junior or senior status and must have maintained at least a 2.0 GPA. Interns must be screened and cleared by the Journalism Committee.

DEPARTMENT OF FOREIGN LANGUAGES (FL)

V. Bennett: Acting Department Head
Associate Professors: Bennett, Peterson
Assistant Professor: Simpson

Foreign-born students may receive credit for courses in their mother tongue and its literature only (1) for courses taken in native institutions of college level or (2) for upper division courses (300 and above) taken at Jacksonville State University or in another English-speaking institution of approved standing.

Foreign Language courses 101, 102, must be taken in sequence.

Requirements for a minor in French, Spanish or German: a minimum of 24 semester hours of college courses numbered 100 and above which must include 303, 304, 310, 320. For those receiving a waiver see below.

Students wishing to receive a waiver for 101 and 102 French, Spanish, or German must complete with a grade of 80 or better an examination (written and oral-aural) administered by the Department. No examination may be repeated in an attempt to receive a waiver.

Those receiving the waiver for 101 and 102 must complete 18 semester hours of college courses in French, Spanish or German numbered 200 and above for a minor which must include 303, 304, 310, 320.

FRENCH (FH)

100. French Review (3). One semester. Open to those with two years of high school French who feel inadequately prepared to enter 201. May be used as a general elective only.

101, 102. Beginner's French (3) (3). Two semesters. Beginning French grammar, pronunciation, conversation, and supplementary work in the laboratory. 101 is prerequisite to 102.

201, 202. Intermediate French (3) (3). Two semesters. Prerequisite: French 102 or two years of high school French. A review of French grammar, conversation and discussion based on short literary selections. Compositions and English to French translations.

Prerequisite for the following: 202 or the equivalent.

303, 304. Survey of Literature (3) (3). French Literature from the sixteenth century to the present.

310. Advanced Grammar and Composition (3). A thorough study of syntax, structure, and principles that the advanced student should know. Not open to native speakers.

313. Basic Business Communications (3). Practice in written communications in all types of business situations for those specializing in areas where the language is French.

320. French Conversation (3). Intensive practice in conversation. Not open to native speakers.

321. French Civilization (3). Culture, history, and geography of France.

416. Seventeenth Century French Literature (3). Readings and analysis of representative plays of Corneille, Racine, and Moliere.

420. Eighteenth Century French Literature (3). Literary, social, and political trends; introduction to Montesquieu, Diderot, Voltaire, Rousseau, and others.

430, 431. Nineteenth Century French Literature (3) (3). Two semesters. First Semester: Representative works of Stendhal, Hugo, Sand, Balzac, Flaubert, Maupassant, Zola, and others to be read and analyzed. Second Semester: Nineteenth Century French Literature: poetry and drama.

440, 441. Twentieth Century French Literature (3) (3). Two semesters. First semester: Representative works of Proust, Colette, Gide, Mauriac, Malraux, Giono, Sartre, Camus and others to be read and analyzed. Second semester: Twentieth Century French Literature: poetry and drama.

GERMAN (GN)

101, 102. Beginner's German (3) (3). Two semesters. Beginning German grammar, with emphasis on basic skills — reading, writing, speaking, and understanding the target language. 101 prerequisite to 102.

201, 202. Intermediate German (3) (3). Two semesters. Prerequisite: German 102 or two years of high school German. Grammar review, composition, selected reading, conversation.

Prerequisite for the following: German 202 or the equivalent.

303, 304. Survey of Literature (3) (3). Two semesters. Representative German writers in the major periods of their nation's cultural development from its origin to modern times.

310. Advanced Grammar and Composition (3). A comprehensive study of German style, syntax, and principles expected of the advanced student. Not open to native speakers.

313. Basic Business Communications (3). Practice in written communications in all types of business situations for those specializing in areas where the language is German.

320. German Conversation (3). Development and refinement of oral-aural skills based on contemporary materials and interests. Not open to native speakers.

321. German Civilization (3). Evolution of the culture, history, and geography of Germany and her Germanic neighbors.

404. Romanticism (3). The works of Tieck, Kleist, Schlegel, Novalis, and others of the German Romantic Period.

406. German Poetry (3). Representative poetry from major periods — from the Minnesang to the present.

- 408. Age of Goethe (3).** Reading and analysis of short representative works by Goethe, Schiller, Lessing and a number of their contemporaries.
- 409. Nineteenth Century Drama (3).** Reading and analysis of representative works of Kleist, Buchner, Grillparzer, Hebbel, and Hauptmann.
- 410. Twentieth Century Drama (3).** Selected works by Brecht, Kaiser, Hofmannsthal, Schnitzler, Frisch, and Dürrenmatt read and analyzed.
- 411. Goethe's Faust (3).** Reading and discussion of *Faust, Part I*.
- 412. The German Novelle (3).** Selected works by Storm, Meyer, Gotthelf, Hauptmann, Huch, Kafka, and others.
- 413. The German Novel (3).** Major representative works of Hauptmann, Hesse, Mann, Kafka, and others to be read and analyzed.

SPANISH (SH)

101, 102. Beginner's Spanish (3) (3). Two semesters. Beginning Spanish grammar, with emphasis on reading, writing, speaking, and understanding the language. Use of language laboratory required. 101 is prerequisite to 102.

200. Beginner's Conversation (3). Prerequisite : Spanish 101. The essentials of Spanish conversation for beginners. Does not satisfy language requirements for the B. A. program. Not open to native speakers.

201, 202. Intermediate Spanish (3) (3). Two semesters. Prerequisite: Spanish 102 or two years of high school Spanish. A review of Spanish grammar, conversation and discussion based on short literary selections. Compositions and English to Spanish translations. Laboratory Required.

Prerequisite for the following except 406: Spanish 202 or equivalent.

303, 304. Survey of Literature (3) (3). Two semesters. Representative Spanish writers in the major periods of their nation's cultural development from the beginning to modern times.

310. Advanced Grammar and Composition (3). Grammatical principles the advanced student should know. Not open to native speakers.

313. Basic Business Communications (3). Practice in written communications in all types of business situations for those specializing in areas where the language is Spanish.

315. Spanish Drama (3). Reading and analysis of representative plays.

320. Spanish Conversation (3). Intensive practice in conversation with emphasis on oral reports based on periodicals and newspapers. Not open to native speakers.

321. Spanish Civilization (3). History of the civilization of Spain and its application as a background for practice teaching.

322. Latin American Civilization (3). Evolution of the culture, history, and geography of Latin America.

405. Golden Age Drama (3). Plays selected from Lope De Vega, Tirso De Molina, Alarcon, Calderon, and others between the years of 1592 and 1681.

406. Don Quixote (3). A reading analysis of the work of Cervantes with attention given to the author in relation to his time. Taught in translation. No prerequisite.

408. The Generation of 1898 (3). The major works of Azorin, Unamuno, Ortega y Gasset, Valle-Inclan, Antonio Machado, and Pio Baroja.

409. Contemporary Spanish Literature (3). Spanish writers since the Civil War with special attention paid to Camilo Jose Cela, Miguel Delibes, and Carmen Laforet.

410. Latin American Literature (3). The literature of Latin America from its beginning until the present with emphasis on Modernism and the South American Novel.

411. Nineteenth Century Spanish Poetry (3). Representative poets from the Romantic and Post-Romantic periods and from Modernism and Ultra-Modernism.

412. Nineteenth Century Spanish Drama (3). Outstanding dramatists with emphasis on Duque de Rivas, Zorilla, Echegaray, Garcia Gutierrez, Hartzzenbusch, Tamayoy Baus.

413. Nineteenth Century Spanish Novel (3). Major developments and trends in the novel of the 19th century as reflected in the works of Galdos, Pardo Bazan, Palacio Valdes, Alarcon, Blasco Ibanez, Valera, and Pereda.

FOREIGN LANGUAGES (FL)

000. English for Foreign Students (0). Required until satisfactorily completed of all foreign students failing to pass an English competence examination.

300. Introduction to French, German, and Italian (4). Meets daily. May be used as a general elective. For music majors and minors. Designed to introduce the music student to the structure, phonology, and intonation of French, German, and Italian.

DEPARTMENT OF HISTORY (HY)

Robinson: Department Head

Professors: Robinson, C. Wingo, P. Wingo

Associate Professors: Brannen, Caldwell, Childress, Hollis, Koerper,

Magaw, Taylor, Thomas

Assistant Professor: Weaver

The Department offers a Bachelor of Arts degree in history for those who are not seeking teacher certification. This degree requires a minimum of thirty hours of history, including History 101, 102, 201, and 202. In addition to History 101 and 102, at least two courses must be chosen from advanced European or Asian history numbered 300 or above. In addition to the 30 hours of history, Political Science 201 and 202 are required of all students seeking a B.A. degree in history. Students should consult the *Bulletin* for additional degree requirements.

The requirements for a minor in history may be met by taking at least twenty-one hours in the department, including History 101, 102, 201, 202, and nine hours of courses numbered 300 or above.

The teaching degree or certification in history on the High School level (grades 7-12) requires twenty-seven hours of history as follows: History 101, 102, 201, 202, 404, 444, and 456; three hours from History 433, 434, 437, 441, 442, 448, 450, 452, 453, 454, 455, 458, 470, 471, 480, 481, 491, or 492; and three hours from History 301, 302, 331, 332, 333, 395, 400, 401, 402, 403, 408, 465, 468, or 473. In addition to the twenty-seven hours of history, a student must select three hours from the following: Sociology 224, Philosophy 202, or Philosophy 321. For additional Social Science requirements, students should consult the Office of Education Advisement.

A teaching degree or certification in history on the Middle School level (grades 4-8) requires twenty-seven hours of history as follows: History 101, 102, 201, 202, 404, 444, 456; three hours from History 437, 452, 453, 454, or 455; and three hours from History 331, 333, 395, 400, 401, 402, 403, 408, or 473. In addition to twenty-seven hours of history, a student must select three hours from the following: Sociology 224, Philosophy 202, or Philosophy 321. For additional Social Science requirements, students should consult the Office of Education Advisement.

DESCRIPTION OF COURSES

100. Current History (2). Two hours credit will be permitted for the major in history. A maximum of two additional hours may be taken as a general elective.

101, 102. World History (3) (3). Two semesters. Civilization from earliest times to the present. Some training in the technique of historical research.

201, 202. American History (3) (3). Two semesters. Beginning with the European background, this course deals with the establishment of the thirteen English colonies, separation from the mother country, growth and expansion, participation in world affairs.

301. History of England to 1689 (3). Prerequisite: History 101, 102. The formation of the English people and nation, its early legal and constitutional development, the struggle between king and parliament, and the beginnings of overseas expansion down to the Glorious Revolution. Recommended especially for pre-law students.

302. History of Great Britain, 1689 to the Present (3). Prerequisite: History 101, 102. A continuation of History 301. The consolidation of the constitutional evolution; the agricultural, social, industrial and political revolutions of the eighteenth and nineteenth centuries; the merging of Great Britain into the Commonwealth of Nations.

304. American Military History (3). Prerequisite History 201, 202. The evolution of warfare and the military in America's past.

331. The Far East in Modern Times (3). Prerequisite: History 101, 102. The Far Eastern countries, with special emphasis upon China, Japan, Korea, and India in the modern period; political developments, social, economic, and cultural conditions; international relations in the Far East.

332. Russian History to 1855 (3). Prerequisite: 101, 102. The political, social, and intellectual developments of Russia from the early migrations and consolidation of Muscovy through the Crimean War.

333. Russian History Since 1855 (3). Prerequisite: 101, 102. The political, social, intellectual, and diplomatic developments of Russia from Alexander II to the present.

395. Europe in the Middle Ages, 476-1300 (3). Prerequisite: History 101, 102. Major political, intellectual, and cultural trends, with emphasis on ecclesiastical developments and the fathers of the church.

400. Europe in the High Middle Ages, Renaissance and Reformation, 1300-1648 (3). Prerequisite: History 101, 102. European society as seen through its philosophy, religion, literature, and politics.

401. Age of Absolutism and Revolution: Europe 1648-1815 (3). Prerequisite: History 101 and 102. The cultural, intellectual and political background of modern Europe.

402. Nineteenth Century Europe, 1815-1914 (3). Prerequisite: History 101 and 102. The background and progress of the First World War.

403. Age of World Conflict: Europe 1914-1945 (3). Prerequisite: History 101 and 102, or consent of the instructor. The sectional and international problems of Europe between two wars, and the genesis and progress of the Second World War.

404. The Age of the Cold War: Europe, 1945-Present (3). Prerequisite: History 101 and 102. The Cold War and its impact on the internal reorganization of the European nations.

408. Ancient History (3). Prerequisite: History 101, 102. A survey of civilization in the near east and Europe from the invention of writing to the fall of the Roman Empire.

433. American Social and Cultural History to 1865 (3). Prerequisite: History 201, 202. American society through its literature, religion, philosophy, and arts. Emphasis upon immigration strains, European cultural transfer, and environmental adaptations which have gone to form the American character. Wide opportunities for reading offered in religion, philosophy, literature, and the arts.

434. American Social and Cultural History Since 1865 (3). Prerequisite: History 201, 202 and 433 or consent of instructor. A continuation of History 433, this course will evaluate shifting immigration origins. Concentrated study will be given to the changing thought patterns which have resulted from Darwinism, the rise of Big Business, theories of the public interest, Pragmatism, and the emergence of the United States as a world power.

437. Black America (3). Prerequisite: 201, 202. Blacks in the U.S. from colonial times to the present; events of the twentieth century and the integral social relations between blacks and whites will be emphasized.

441. The South Before 1860 (3). Prerequisite: History 201, 202. Not open to those who have had History 444. The colonization and the economic, political, social, and cultural development of the Old South, and its part in building the nation.

442. The South Since 1860 (3). Prerequisite: History 201, 202, and 441 or consent of the instructor. The issues which led to secession; the War Between the States; the economic, political, and social results; recent tendencies and developments.

444. History of Alabama (3). Prerequisite: History 201, 202. Not open to those who have had History 441. Open only to those in elementary education curriculum and to others upon the consent of the instructor. Alabama from the era of settlement to the present time. Attention given to slavery, with its social, economic, and political implications; secession and war; the aftermath; rise of industry; education and literature; politics and recent tendencies.

448. The Westward Movement in American History (3). Prerequisite: History 201, 202. Significance of the frontier in American History; colonization of successive geographic areas; the West in relation to tariff, public lands, currency and banking; and crisis resulting from expansion.

450. Age of the American Revolution (1763-1789) (3). Prerequisite: 201, 202. Background of the Revolution; British policy and American protest; political, social, diplomatic, and military phases of the Revolutionary War; the Confederation Period; and the Constitution of 1787.

451. History of Early America to 1776 (3). Prerequisite: 201, 202. European background to exploration; exploration and settlement; the Inter-Colonial Wars; the political, social, economic, and cultural developments within the colonies.

452. The Middle Period of United States History, 1787-1850 (3). Prerequisite: History 201, 202. The American Republic from its formative years during and immediately following the Constitutional Convention until its temporary disruption during the Civil War. The approach is regional, and the Northeast, the South, and expanding West are examined especially as they were influenced by the contemporaneous but conflicting developments of nationalism and sectionalism. Wide opportunities will be offered for reading and individual study.

453. Sectional Conflict, Civil War, and Reconstruction 1850-1877 (3). Prerequisite: History 201, 202. The rise of opposition to slavery; the Decade of Crises; Civil War; political, social, economic, diplomatic, and military aspects of the conduct of the war. An examination of the various interpretations, regional and national, of the Reconstruction Period.

454. The Beginnings of Modern America, 1877-1914 (3). Prerequisite: History 201, 202. A description and evaluation of the shift of the United States from an agrarian to an industrial nation; the heritage of Civil War and Reconstruction; the rise of the Great Moguls; mass production and technological change; the rise of labor union movements and organized farm protests; the Spanish-American War; and American involvement in World War I.

455. Recent American History, 1913-1945 (3). Prerequisite: History 201, 202. A detailed study of American political, diplomatic, and cultural history from President Woodrow Wilson through President Franklin D. Roosevelt.

456. Contemporary America, 1945-Present (3). Prerequisite: History 201, 202. A detailed study of American political, diplomatic, and cultural history since the end of World War II. Part of this course will be devoted to the study of current events.

458. Major Issues in American History (3). Prerequisite: 201, 202, and at least three hours of American history numbered 300 or above. An in-depth study of several major issues covering the entire span of American history. Students will read extensively and participate in class discussions.

465. The British Empire and Commonwealth (3). Prerequisite: History 101 and 102. Growth and development of the British Empire, with emphasis on the factors leading to the Commonwealth of Nations. (Not open to those who have completed History 305.)

468. Constitutional History of England (3). Prerequisite: History 101 and 102. Growth of common law, the court system, and the cabinet form of government from the earliest times to present. (Not open to those who have completed History 308.)

470. American Diplomatic History to 1933 (3). Prerequisite: History 201 and 202. History of the United States foreign relations beginning with the American Revolutionary Period and continuing through the decade of the 1920's. A study of the historical changes in American foreign policy objectives which led to the increased size and importance of the United States.

471. American Diplomatic History Since 1933 (3). Prerequisite: History 201 and 202. A detailed study of United States' foreign relations beginning with Franklin D. Roosevelt and continuing to the present.

473. Modern Middle East (3). Prerequisite: History 101 and 102. This course centers around Israel's struggle for national independence and the tension this has produced in the Middle East since 1945. Emphasis will be placed upon individual reading assignments and research.

480. Spain and the New World (3). Prerequisite: History 201, 202. The building of the Spanish Empire in the New World and its destruction through revolution.

481. Latin American Republics (3). Prerequisite: History 201, 202. The beginnings of independent government in the Latin American Republics, tracing growth, development, and change in these republics through the present day.

491. United States Constitutional History to 1877 (3). Prerequisite: History 201 and 202. A study of the origin and development of the Constitution from the Colonial Era through the Civil War and Reconstruction.

492. United States Constitutional History Since 1877 (3). Prerequisite: History 201 and 202. A study of the constitutional developments from the expansion of governmental functions following Reconstruction through judicial trends of the present.

DEPARTMENT OF POLITICAL SCIENCE (PSC)

Selman: Department Head

Professor: Selman

Associate Professors: Browder, Bruer, Davis, Gilbert, Savage, Smith

The Department of Political Science offers a variety of courses for students in the liberal arts, pre-law, and professional education curricula. A wide range of courses is available for those preparing for careers in government or in business.

The department offers a Bachelor of Arts degree with a major in political science for those not seeking teacher certification. The major requires 30 semester hours in political science including Political Science 201, 202, 433, either 385 or 386, and either 451 or 452. In addition to the 30 hours of political science, Law Enforcement 101 is required of all majors. Requirements for a minor are 18 semester hours, including Political Science 201, 202, and 433. At least 12 hours in the major and 6 hours in the minor must be in courses numbered 300 or above.

In addition to the above program, Bachelors of Science in Education may be certified in political science on the high school level (grades 7-12). This requires 27 hours of political science as follows: Political Science 201, 202, 385 or 386, 433, 434, 451 or 452, and 9 hours from Political Science 101, 332, 342, 352, 375, 376, 377, 380, 385, 386, 421, 423, 432, 436, 441, 443, 444, 445, 447, 448, 450, 451, 452, 454, 481, or 499. In addition to the 27 hours of political science, a student must select 3 hours from the following: Sociology 224, Philosophy 202, or Philosophy 321. For additional social science advisement, students should consult the Office of Education Advisement.

Political Science 201 is prerequisite to all other undergraduate courses in political science unless otherwise indicated.

DESCRIPTION OF COURSES

101. Introduction to Political Science (3). No prerequisite. Nature and scope of political science; basic concepts and terminology; nature of the state and government; types of political systems; comparative political institutions.

201. Government of the United States (3). No prerequisite. Structure and organization of the American national government. Evolution of the United States Constitution and the federal system; civil rights, voting and elections; Congress, the President, and the federal courts.

202. Government of the United States (3). No prerequisite. A survey of the functions and major programs of the national government: federal taxes and spending; the regulation of business; national labor policy; public health and welfare programs; conservation and the environment; national defense and foreign policy.

332. International Organizations (3). Principles, procedures, and functions of international governmental organizations including the United Nations, the Organization of American States, the North Atlantic Treaty Organization, the European Common Market, and International Judicial organizations.

342. Political Parties (3). Composition, organization, and function of American political parties on the national, state, and local levels.

352. The Legislative Process (3). American legislative bodies with emphasis upon recruitment, composition, structure, procedures, functions, role of parties and pressure groups, and problems of legislative reform.

375. Governments of Latin America (3). Organization and structure of the governments of the principal Latin-American nations, with emphasis upon constitutional development and present-day issues.

376. Governments of Asia (3). The government and politics of Asian countries except the Near East, with major emphasis upon the governments of China, Japan, and India, and the role of Asia in world affairs.

377. Governments of Africa and Near East (3). The government and politics of the Near East and the emergent African nations with attention to present developments and the role of these countries in world affairs.

380. National Security Affairs (3). Examines theories and policies of national security with concentration upon U.S. national defense policy. Particular emphasis is upon the roles of executive, legislative, and non-government actors. Topics include deterrence theory, arms control, military-civilian relations, manpower and weapons acquisition, and the economics of defense.

385. Local Government and Administration (3). The development of local government in both rural and urban areas in the United States, with an examination of the principal institutions and processes of local government. Main attention is given to the organization and administration of county government in the rural areas and city government in the urban areas. Not open to freshmen.

386. State Government and Administration (3). Structure and organization of American state government: state courts, state legislatures, the American governor, and major problems of state government.

421. American Diplomacy to 1900 (3). Chronological development of American foreign policy from the early period to 1900.

423. Twentieth Century American Foreign Policy (3). Traces main streams of American foreign policy in the twentieth century. Major American foreign policy decisions are used in the analytical development of American foreign policy processes. The various influences upon foreign policy decision-making are identified and evaluated.

432. International Relations (3). Basic principles of international relations, with emphasis on the modern state system, nationalism, diplomatic relations, and international politics.

- 433. Governments of Western Europe (3).** Democracies of Western Europe, with major attention to the governments of Great Britain, France, and West Germany.
- 434. Government of Russia and Soviet Satellites (3).** Development and organization of the communist system in Russia and the satellite states of Eastern Europe.
- 436. The Politics of Underdeveloped Nations (3).** An analysis of political problems confronting new nations with special attention to the patterns of political change, and the role of government in social and economic development in underdeveloped nations.
- 441. Government and Business (3).** Recent national policy in the area of business and labor, and the role of the national government in regulating these areas. Major attention is devoted to government policy against monopoly and unfair competition, and to the regulation of selected industries.
- 442. Government Economic and Social Welfare Policy (3).** Emphasis is on national governmental policy relating to economic growth and stability, including monetary policy, taxation, public spending, and the relevant aspects of energy and environmental policy. Consideration is also given to public policy relative to social security, unemployment insurance, public assistance, public health, and other aspects of the modern social welfare state.
- 443. Constitutional Law I (3).** Fundamental principles of the United States Constitution and its development. Topics include powers of President and Congress, federalism, interstate commerce, and others. Textbook and case method.
- 444. Constitutional Law II (3).** Relationship between the individual and government as revealed through constitutional law cases. Major emphasis will be on civil liberties based on the interpretation of the Bill of Rights and the Fourteenth Amendment. Textbook and case method.
- 445. Southern Politics (3).** The politics of eleven southern states with regard to voting, elections, the origin and decline of the one-party system in the South; the role of the Republican party and minor parties; the impact of Southern politics upon national affairs.
- 447. Elections in America (3).** Examines election to public office in America through a focus on three aspects of the electoral system: the election structure, the electoral campaign, and the electoral decision. Emphasis is divided among national, state, and local elections.
- 448. Public Opinion and Political Participation (3).** Forces affecting public opinion and the effect of formal political institutions upon individual and group political participation. Attention given to techniques used to measure public opinion.
- 450. The American Executive (3).** The role and behavior of the American executive at the national, state and local levels in the U.S. political system with emphasis upon the American Presidency.
- 451. Political Theory to 18th Century (3).** Political thought from Plato to the early modern period with emphasis upon the main ideas of leading political thinkers relative to government and the state.
- 452. Modern Political Theory (3).** Main trends in political thought since 1700 with major attention upon the development of democratic liberalism and the contrasting authoritarian philosophies of communism, fascism, and national socialism.
- 454. American Political Thought (3).** Principal ideas of leading political thinkers in America from the colonial period to the present.
- 481. Public Administration (3).** Principles of public administration, with emphasis on public finance, personnel management, and administrative law.
- 488. Legal Internship (3).** A cooperative program involving the Calhoun County Legal Aid Office, the Calhoun County District Attorney's Office, and Jacksonville State University. The student is assigned to one of these legal offices, works two half days each week, and is supervised by the Political Science Department and the office to which assigned. Open only to students with at least 15 hours in political science.

497. Internship in Regional Planning (3). A cooperative program with the East Alabama Planning Commission whereby the student works two half days per week with this organization on a selected project in the area of regional or urban development. Open only to students with at least 15 hours of political science.

499. Scope and Methodology of Political Science (3). The scope and approaches to political science with considerable attention to research methods, techniques, and current research problems.

DEPARTMENT OF PHILOSOPHY, ETHICS, AND RELIGION

Wilson: Department Head

Jacksonville State University does not offer a major or minor in Philosophy and Ethics, but students are encouraged to take these courses in support of their general education requirements. Please confer with the department head for specific advisement as to how these courses relate to other programs at this institution.

DESCRIPTION OF COURSES IN PHILOSOPHY, ETHICS, AND RELIGION (PH)

202. Principles of Logic (3). Major topics in the philosophy of language, and the principles of inductive and deductive logic. Designed for the general student and for those who expect to do advanced work in law, medicine, science, theology, and philosophy.

321. Introduction to Philosophy (3). The meaning, scope, problems and methods of philosophy. Use is made of original materials.

322. Ancient Philosophy (3). The development of philosophy in the western world from its inception in Greece through the early medieval period.

323. Modern Philosophy (3). The development of western philosophy from the late medieval periods through the nineteenth century.

324. Contemporary Philosophy (3). Major philosophical movements of the twentieth century, including idealism, realism, pragmatism, logical empiricism, and existentialism.

329. Philosophy Seminar: Revolutionary Trends in Contemporary Thought (3). A critical examination of current social, political, and religious revolutions, such as the black-white conflict, controversy over war, violence vs. "law and order," and the new morality.

331. Ethics (3). The nature and source of moral values and the logic of moral reasoning in classical ethical systems.

332. Current Moral Problems (3). An analysis of critical moral questions posed by advanced science and technology and an examination of the alternatives for resolving these dilemmas.

341. Philosophy of Science (3). The methods, presuppositions, and principles of explanation in the natural and behavioral sciences.

DEPARTMENT OF PSYCHOLOGY (PSY)

Wilson: Acting Department Head

**Associate Professors: Bitgood, Crowe, Gardner, McDade, Palya,
Patterson, Peters, Smith, Suarez, Wilson, Yunker**

The psychology curriculum includes a broad range of theoretical, methodological, and survey courses in the field. In addition, there are applied courses in professional areas, such as clinical, industrial/organizational, and correctional psychology. Students majoring

or minoring in psychology may choose electives from this curriculum in each of these areas of concentration. They also have the option of selecting courses with a specific emphasis in accordance with personal and professional interests and goals. Psychology courses are also open for general elective credit to all students with appropriate prerequisites.

A major in psychology requires a minimum of thirty-three (33) hours of psychology, including 201, 220, 220L, 300, 310, 310L, 410 or 420, and including sixteen (16) hours of advanced electives in psychology courses numbered 300 or above.

The requirements for a minor may be met by taking twenty-one (21) hours of psychology, including 201, 220, 220L, 300, 310, 310L and including seven (7) hours of advanced electives in psychology courses numbered 300 or above.

Teacher education certification in psychology requires 27 semester hours of psychology courses as follows: Psy 201, 220, 220L, 310, 310L, and 13 hours of 300+ electives.

DESCRIPTION OF COURSES IN PSYCHOLOGY

201. Principles of Psychology (3). An introduction to basic methodology, principles and terms of contemporary psychology. Stresses a scientific analysis of behavior.

220. Principles of Behavior Analysis (3). Prerequisite: PSY 201. An introduction to principles of operant behavior analysis stressing experimental design, observing and recording techniques, and the basic principle of operant conditioning including schedules of reinforcement.

220L. Behavior Analysis Lab (1). Corequisite or prerequisite: PSY 220. Stresses the skills involved in specifying, observing and consequencing behavior and teaches the standard techniques of behavioral laboratories.

300. Statistics for Behavioral Sciences (3). Prerequisites: PSY 201 and MS 101 or MS 102. Basic statistical concepts and procedures. Demonstration and application of statistical analysis to behavioral research.

310. Experimental Methods (3). Prerequisites: PSY 220, 220L, 300. Introduction to scientific methodology as applied to behavior research. The most frequently used research designs are discussed with specific emphasis upon appropriate experimental controls.

310L. Experimental Methods Laboratory (1). Corequisite: PSY 310. Introduction to techniques of observation and control required for studying human behavior. Research and report-writing skills are also stressed.

315. Analysis of Animal Behavior (3). Prerequisites: PSY 220, 220L. Examines behaviors which are correlated with species membership, consequences of species' specific behaviors, and associated structural differences. Two class periods and one laboratory period a week.

316. Sensory Processes (3). Prerequisites: PSY 220, 220L. The mechanisms associated with sensory stimulation are examined. Covers basic psychophysical relationships.

320. Analysis of Child Behavior (3). Prerequisite: PSY 220. Examines specific techniques for changing the behavior of children and youth in the home, in school, and other settings.

325. Child Psychopathology (3). Prerequisite: PSY 201. Examines from a psychological viewpoint the classifications of abnormal child behavior including childhood psychosis, neurosis, minimal brain dysfunction, and mental retardation.

330. Abnormal Psychology (3). Prerequisite: Psy 201. Examines the major forms of and theoretical explanations for behavior patterns which have been culturally defined as deviant or psychologically abnormal.

335. Theories of Personality (3). Prerequisite: PSY 201. A comprehensive study of the concept of personality. Emphasis will be placed on major theories and theorists of personality, such as Freud, Jung, Lewis, Rogers, and Maslow.

337. Psychology of Sex Roles (3). Studies the origin of sex differences within three theoretical models: biological, psychological, and sociological and examines the nature of these differences emphasizing current research in areas such as Androgyny, Sex Typing, Sexuality, Employment, Tokenism, and Marriage.

340. Behavior Modification (3). Prerequisites: PSY 220, 220L. Describes the extension of behavior technology to clinical and educational settings. Emphasis will be on a variety of behavior therapy procedures.

345. Analysis of Verbal and Conceptual Behavior (3). Prerequisite: PSY 201. A study of concept formation, language acquisition, verbal mediation, problem solving, and creativity.

350. Social Psychology (3). Prerequisite: PSY 201. A survey of the affects of social and cultural factors upon individual and group behavior. Topics include: Conformity, Persuasion, Attitude Change, Leadership, Self Perception, Aggression, and Affiliation.

360. Human Assessment (3). PSY 220 & 300. Assessment and evaluation of human behavior using standardized tests, physiological techniques, and behavioral techniques.

Management 362. Personnel Management (3). Prerequisite: PSY 270 or Management 383. May be counted as a course in Psychology. For description see Management 362.

370. Assessment in Organizations (3). Prerequisites: PSY 201 and 300 or equivalent. Introduction to basic psychometric concepts and issues related to assessment and evaluation of human behavior with emphasis on personnel selection and placement. Tests, ability, aptitude, interest and personality are covered.

371. Organizational Behavior (3). Prerequisite: PSY 201. An examination of applied psychology in organizational settings. Topics concerned include job design, motivation, job satisfaction, organizational development, work stress, unions, communication, group dynamics, and organizational leadership.

372. Human Factors Analysis (3). Prerequisite: PSY 201. A treatment of the relationship between man and his environment with particular emphasis on man-machine relations, work conditions, the design of work behavior and work settings, and accident control.

Marketing 378. Consumer Behavior (3). PSY 270 or Marketing 376. May be counted as course in Psychology. For description see Marketing 378.

THE FOLLOWING COURSES REQUIRE JUNIOR STANDING

400. Physiological Psychology (4). Prerequisites: PSY 310, 310L and consent of instructor. Two class periods and two laboratory periods a week. Study of the physiological structures and mechanisms which mediate between environmental events and behavior.

410. History and Theories of Psychology (3). Prerequisites: 6 hours of 300 or 400 level psychology courses. Examines the historical evolution of modern psychology and the conceptual systems which have been developed.

411. Psychology and Law (3). Prerequisite: PSY 330. The dilemma of mentally ill and mentally retarded defendants is analyzed. U.S. and state statutes and court rules on "acquittal by reason of insanity" and "competence to stand trial" are reviewed. The judicial system, the judicial process, and the role of the expert medical witness are studied. Civil commitment statutes are analyzed, with emphasis on constitutional rights.

420. Advanced General Psychology (3). Prerequisite: 6 hours of 300+ level psychology courses. An in-depth survey of major fields of psychology. Current theories and experimental findings will be analyzed.

Marketing 423. Advanced Consumer Behavior (3). Prerequisites: PSY 201 and Marketing 378. May be counted as course in Psychology. For description see Marketing 423.

430-431. Seminar in Current Problems (3) (3). Prerequisites: PSY 310, 310L and consent of the instructor. Examines the relevant research and methodological problems related to topics of current emphasis in behavioral research. Examples are: drug addiction, aggression, and contingency management.

440-441. Individual Research (3) (3). Prerequisites: PSY 310, 310L, and consent of the instructor. Students will conduct supervised research projects in an area of their own choosing.

444. Conditioning & Learning (3). Prerequisites: PSY 220, 220L. A review of research investigating and basic parameters of conditioning and its theoretical implications, Topics covered will include operant and respondent conditioning, discrimination, and punishment.

444L. Conditioning & Learning Lab (1). Corequisite or Prerequisite: PSY 444. Students will replicate some classic experiments in the areas of conditioned reinforcement or stimulus control and will design and conduct an original short research project.

450. Basic Computer Applications in Psychology (3). Prerequisites: PSY 201. A general background in both hardware and software is provided so that computers can be used as effective tools in Psychology. The course focuses on small computers: how the electronics work, how to fix many of their problems in a few minutes, how to use operating systems, and how to program in BASIC.

460-461. Senior Practicum (3) (3). Prerequisites: PSY 310, 310L, 340, and 9 additional hours in psychology. Practice of behavioral techniques in an instructional setting.

470-471. Clinical Practicum (3) (3). Prerequisites: PSY 220, 220L, 320, 330, and consent of instructor. Practice of psychological techniques with child/adolescent client populations.

Management 472. Organization Theory (3). Prerequisite: PSY 270 or Management 383. May be counted as course in Psychology. For description see Management 472.

480-481. Community Practicum (3) (3). Prerequisites: PSY 220, 220L, 320, 330, and consent of instructor. Practice of psychological techniques in a community organization such as mental health clinics and the juvenile detention center.

DEPARTMENT OF SOCIOLOGY (SY)

Friery: Department Head

Associate Professors: Adams, Aveni, Friery, Hill, Holstein, McCain

Assistant Professors: Mulder, Sewastynowicz

Instructors: Dunaway, Turner

The goals of Sociology are to acquaint the student with the nature of social behavior, social relations, culture, the structure of society, and the tensions and conflicts produced by changes, expanding technologies and knowledge. The goals of Anthropology are to foster better student understanding of pre-history and appreciation of the diversity of existing cultures throughout the world and the human social problems of the modern world, both nationally and internationally. The goals of Gerontology are to acquaint students with the problems, priorities, and programs available for elderly citizens. The goals of Social Work are to provide a knowledge of human behavior, the humanistic value base, and the problem-solving and interactional skills necessary for the generalist practice of Social Work in a variety of settings.

While the requirements for a major are stated as a minimum of 30 semester hours, students are encouraged to go beyond this minimum in order to obtain more breadth and depth. Students are also encouraged to take more than the minimum required for each minor within the department.

To confirm applicability of minimester courses to various programs, students should contact the Department Head and refer to course descriptions listed in the schedule book.

MAJOR IN SOCIOLOGY (B. A. or B.S.). The requirements for a major in Sociology are a minimum of 30 semester hours which must include: 221, 301; 304 or its equivalent; 425 or 427; and one of the following courses: 313, 324, 325, or 360. The other 15 hours are elective and may be selected in two ways: (1) All 15 hours may be chosen from courses in the Sociology listing and from approved Minimester courses; (2) A maximum of 6 of the 15 semester hours of electives may be chosen from 224, 330, 339, 345, 346, 347, and 371.

Introduction to Sociology is a prerequisite introductory course that should be taken during the freshman or early sophomore year. It is strongly urged that 301 and 304 be taken before the scheduling of electives, as these courses will acquaint the student with skills and knowledge needed to read and understand the discipline. SY 425 or 427 should not be scheduled until late in the junior year or the senior year.

Students are urged to consult with the department head regarding assignment to an academic advisor, who will be helpful in choosing electives. Sociology majors may select their electives freely within the limits specified above or by a wise choice of electives the student can embark on a concentration; the student should balance breadth and depth as best suits his or her own needs and future plans.

TEACHING AREA IN SOCIOLOGY (B.S. in Education). This specialization is designed for and required of those students who wish to teach Sociology in middle and/or high school. The student majoring in Sociology and seeking a degree in Secondary Education must take a minimum of 30 semester hours which must include: SY 221, 224, 301, 304 or its equivalent; SY 425 or 427; and one of the following courses: SY 313, 324, 325, or 326. While students seeking this degree are allowed to select their electives from any courses offered within the department, they are advised to select their electives from the following courses: SY 223, 310, 322, 345, and 360. Students seeking a B.S. in Education with a teaching area in Sociology must see the Head of the Department of Sociology and the academic advisor for the College of Education for specific advisement and course selection.

SOCIOLOGY MINOR. A minor in Sociology is offered within the Department of Sociology. The requirements for a minor in Sociology are a minimum of 18 semester hours which must include SY 221 and 301. The remaining 12 hours are electives which must be chosen from courses in the Sociology listing and from approved Minimester courses.

ANTHROPOLOGY MINOR. A minor in Anthropology, designed to increase students' awareness of cultural diversity and human variation, is offered within the Department of Sociology. A minimum of 18 semester hours is required for the minor, which must include SY 224, 225, 345, and 350. The remaining six hours may be chosen from the following courses: SY 344, 346, 347, 348, 349, 360, 364, 366, 424, 441, 442, 443, 490, 491, 492, and from approved Minimester courses.

GERONTOLOGY MINOR. Through the Department of Sociology, a minor in Gerontology is offered. This minor is designed to provide students with the necessary academic background to understand the problems, prospects and policy issues involved in aging in America. A minor in Gerontology consists of 18 hours, which must include SY 370 and 340. In addition to these six hours, twelve additional hours from an approved list of electives and from approved Minimester courses must be taken.

SOCIAL WORK MINOR. A minor in Social Work is offered within the Department of Sociology which prepares the student for human service work at the preprofessional level. This is accomplished by providing theoretical knowledge with specific problem-solving skills and a beginning sense of professionalism. To obtain the minor in Social Work, the student is required to complete a minimum of 18 hours comprised of the following five Social Work courses: SY 330, 380, 390, 400, and 451. In addition a minimum of one course (3 hours) must be taken from the following approved Social Work elective courses: SY 223, 332, 333, 360, 370, 381, 391, 441, 442, 443, 449, 450, and from approved Minimester courses.

SOCIOLOGY

DESCRIPTION OF COURSES

221. Introduction to Sociology (3). Basic concepts, principles, and methods of sociological analysis; the significance of culture; the behavior of people in groups; social classes; the personality-growth process; the social processes in human interaction; community growth and life in town and metropolis; family, religion and other social institutions; social change.

223. Social Problems (3). Prerequisite: SY 221. American culture and society, including analytical treatment of problems of crime, urban living, mass media, mental illness, education, race, population, civil liberties, and others.

301. Sociological Methods (3). (Formerly SY 430). Prerequisite: SY 221. An introduction to the theory, design, collection, and analysis of data in sociology with particular focus given to various techniques by which sociological data are examined.

304. Social Statistics (3). Prerequisite: an algebra course. An introduction to use of statistics in the social sciences, with an examination of measures of association and dispersion, scaling, probability, and tests of significance.

310. Marriage and the Family (3). Prerequisite: SY 221 or 224. Family structures; functions and dysfunctions of the family; intimate relationships; sexual behaviors and attitudes; the differences between the sexes; dating, courting and mate selection; endogamy and exogamy; family life; children; and alternatives to traditional marriage.

312. Human Sexuality: A Sociological Perspective (3). Prerequisites: SY 221 and must have consent of instructor. Course open only to those entering "helping professions" (Sociology, Social Work, Counseling, Teaching, etc.) A study of mature human sexuality in its physiological, psychological, and sociological aspects, including the cultural myths surrounding human sexuality.

313. Social Psychology (3). Prerequisite: SY 221. A survey of traditional and contemporary theories in social psychology regarding their applicability to everyday life, including such approaches as cognitive theory, reinforcement theory, symbolic interaction, and humanistic theories.

314. Small Groups (3). Prerequisite: SY 221 and/or permission of instructor. Theory and research relating to the dynamics of small groups; the individual in a social situation; structure, functions, and processes; leadership; control and change.

315. Deviant Behavior (3). Prerequisite: SY 221. Introduction to the social and cultural factors related to human deviance. Special attention is given to the study of various theories of deviant behavior. A short paper or project may be required.

320. Criminology (3). Prerequisite: SY 221. This course is an introduction to the study of criminology. Its focus is on the nature of crime, the nature and development of law, the criminal justice system, and theories of crime. A short paper or project may be required.

322. Juvenile Delinquency (3). Prerequisite: SY 221. Popular misconceptions; delinquency trends; police and juveniles; programs of prevention; detention centers; juvenile courts; probation; theories of causation; corrections.

324. Social Stratification (3). Prerequisite: SY 221. Theories and history of social class and caste; measurement of class, status and mobility; social and personal consequences of social class; mobility and access to channels of mobility. A short paper or project may be required.

325. Sociology of Organizations (3). Prerequisite: SY 221. An examination of the forms and functions of organizations in contemporary society. The characteristics of complex organizations, such as businesses and hospitals, as well as those simple, small ones, such as churches and social clubs, will be considered. Major theories of organizations, using social psychological, structural, conflict, and consensus perspectives will also be treated.

326. Sociology of Education (3). Prerequisite: SY 221 or 224. The school is examined as a major social institution and socializing agent in American society. The formal and informal structure of the school, its influence upon the responses to the wider community institutions, and primary functions of the school system are examined. Teacher-student relationships, the classroom as a social system, and equality of educational opportunity will be considered.

340. Perspectives on Death and Dying (3). Prerequisite: SY 221 or 224. An examination of the attitudes of differing cultures and sub-cultures toward death which encourages students to supplement relevant readings by discussing personal attitudes toward death and dying. Death will be viewed as the final stage of growth and current research in this topic will be explored by lectures, films, and readings. By better understanding death and dying, students can explore in this course opportunities for growth and for improving the quality of life.

351. Urban Sociology (3). Prerequisite: SY 221. Development of urban areas; planned communities or new towns; urban politics; and urban problems such as transportation, pollution, housing, etc.

354. Industrial Sociology (3). Prerequisite: SY 221. A comparative approach at the macrolevel of the development of industrial societies; technology as a product of evolutionary processes; technology's unique role in the social evolutionary process; problems and crises of industrialized nations and developing nations; problems and prospects as industrialized and developing nations work out relationships; some possible alternatives.

356. Collective Behavior and Social Movements (3). Prerequisite: SY 221. Sociological basis of behavior in crowds, audiences, publics, and mass movements. This course would have a social psychological perspective.

359. Population (3). Prerequisite: SY 221. A sociological examination of population growth, migration, fertility, mortality, and population change.

360. Ethnic and Minority Group Relations (3). Prerequisite: SY 221 or 224. An examination of the structure and interaction of minority groups, ethnic or otherwise, both on microscopic and macroscopic levels, and of the independent and interdependent relationship with other minority and majority groups in a pluralistic society. Special attention will be given to relations of and with Black, Chicano, and Native American groups. A short paper or project may be required.

364. Medicine and Society (3). Prerequisite: SY 221 or 224 or permission of instructor. The relationship of disease to society including the analysis of the leading causes of death in various cultures. Also includes the epidemiology of nursing, nutrition, medical systems, ethnopharmacology, transcultural psychiatry, population and family planning and longevity.

366. Religion and Society (3). Prerequisite: SY 221, 224 or 345. The study of religion in its social and cultural contexts. Comparatively examines how religious beliefs, rituals and practices exist in close relation to other aspects of society and culture, giving to human existence coherence and purpose.

370. Aging and Human Development (Social Gerontology) (3). An examination of aging in the United States. Primarily a sociological perspective but deals with the psychological and biological aspects of aging, as well as contemporary demographic, economic and political trends.

400. The Community (3). Prerequisite: Permission of Instructor. The community as a cultural and social system, its nature and characteristics; interrelationships between social service, political, economic, educational, religious, ethnic, occupational and other systems; methods of studying communities with attention to making communities more liveable.

425. Development of Sociological Theory (3). Prerequisites: SY 221, and 15 hours of SY courses, or permission of instructor. This course examines the origins of modern sociological theory, focusing upon each major theoretical paradigm in its development.

Structural-functional, symbolic interactionist, and critical theory are historically analyzed for their contemporary application, with major theorists and their contributions up to WWI. The purpose is to provide the student with a rich background for understanding the contemporary implications of theory and its philosophical premises.

427. Contemporary Sociological Theory (3). Prerequisites: SY 221, and completion of 15 hours of sociology courses, or permission of instructor. An examination of the major trends in sociological thought after the First World War.

441, 442, 443. Independent Study (1-3 hours each). An opportunity for the student with advanced standing to explore areas of special interest. Students seeking admission must have advanced standing and secure approval of instructor and head of department. Course may count toward Anthropology, Gerontology, or Social Work.

480, 481, 482. Advanced Seminar in Sociology (3) (3) (3). Prerequisite: SY 221. An examination of current issues in sociology. The content of the course will vary each semester. Students seeking admission must have advanced standing and secure approval of instructor.

ANTHROPOLOGY

DESCRIPTION OF COURSES

224. Introduction to Anthropology (3). The field of anthropology, including physical anthropology, archaeology, cultural anthropology, social anthropology, and linguistics.

225. Introduction to Archaeology (3). A study of the history, methodology, problems, and theory of archaeology. Included in this course is a brief outline of man's prehistoric cultural development in both the New and Old Worlds as based on archaeological data already available.

344. Principles of Archaeology (3). An examination of the ways in which the archaeologist recovers archaeological data. Method, theory, actual field work and field trips to archaeological sites will be included in this course.

345. Cultural Anthropology (3). The dynamics of social and cultural phenomena as they exist and vary from society to society. A paper or project may be required.

346. Social Change (3). This course examines the major processes of social and cultural change, including evolutionary theory, acculturation, diffusion, revitalization, cultural ecology and modernization.

347. Anthropology and Modern Social Issues (3). Prerequisite: SY 224 or 345. An examination of the ways in which cultural anthropology can offer modern Americans an understanding of national and world events and problems. Issues treated include the Third World, race and racism, poverty, culture, education in modern society, the environment and social change.

348. Survey of North American Indian Cultures (3). Prerequisite: SY 224. This course would concentrate on the ingenuity and diversity of several prehistoric and historic Indian cultures throughout North America. Both prehistoric/archaeological and ethnographic data will be used to demonstrate how American Indians have contributed considerably to the American culture of today.

349. Indians of Middle and South America. (3) Surveys the growth and development of Indian cultures in Mexico, Central America and South America from prehistoric times to the present. Included are the "high cultures" of the Aztec, Maya and Inca; as well as more primitive groups such as the head-hunting, cannibalistic Carib and Jivaro.

350. Physical Anthropology (3). This course surveys the subject of human evolution including evolutionary theory, the social order of primates, fossil evidence for human development, and special topics surrounding biological and cultural influences in human life.

360. Ethnic and Minority Group Relations (3). May be counted as Anthropology. See Sociology for course description.

364. Medicine and Society (3). May be counted as Anthropology. See Sociology for course description.

366. Religion and Society (3). May be counted as Anthropology. See Sociology for course description.

424. Development of Anthropological Theory (3). Prerequisites: SY 224 or 345. The rise and development of Anthropological theory from the Enlightenment to modern times. (Note: this course does not serve as a senior theory course for Sociology majors.)

490, 491, 492. Advanced Seminar in Anthropology (3) (3) (3). Prerequisite: SY 224. An examination of current issues in Anthropology. The content of the course will vary each semester. Students seeking admission must have advanced standing and secure approval of instructor.

GERONTOLOGY

DESCRIPTION OF COURSES

339. The Social Psychology of Aging (3). Prerequisite: permission of instructor. A study of the social-psychological processes involved in aging including role adjustments, societal definitions and responses to aging, stereotypes, nutrition, health care, continuing education, institutionalization, social and political participation.

340. Perspectives on Death and Dying (3). May be counted as Gerontology. See Sociology for course description.

364. Medicine and Society (3). May be counted as Gerontology. See Sociology for course description.

370. Aging and Human Development (Social Gerontology) (3). May be counted as Gerontology. See Sociology for course description.

371. Social Problems of the Aged (3). Prerequisites: SY 370 and permission of instructor. A theoretical and empirical study of specific problems and issues related to the aging process and older Americans.

452. Aging Practicum (3). Prerequisite: SY 370. Field observation and experiences in agencies or organizations engaged in planning or administering programs for older people or providing direct services to older people. Seminar analysis of these experiences.

495, 496, 497. Advanced Seminar in Aging (3) (3) (3). Prerequisite: SY 370. An examination of current issues in aging. The content of the course will vary each semester. Students seeking admission must have advanced standing and secure the approval of instructor.

SOCIAL WORK

DESCRIPTION OF COURSES

330. Introduction to Social Work (3). Designed to assist the student who is considering Social Work as a career. A generalist model of practice is presented. Knowledge, value and skill bases, current client systems, and fields of practice are described in a historical context. Field observation may be required.

332. Social Policy and Services (3). This course is designed to provide opportunities for students to gain an appreciation of the importance of social welfare policy. The course looks at specific policy areas with emphasis on current policies that guide the programs designed to alleviate current social problems.

333. Family and Child Welfare Services (3). An exploration of the history of child welfare service in this country, as well as current trends in this field of Social Work. Foster Care, adoption and protective services will be viewed in a historical perspective ending with an evaluation of current policy and future implications for Social Work practice in child welfare areas.

380. Human Behavior and Social Environment I (3). Prerequisite: SY 330. Introduction to systems theory as an approach to the study of the bio-psycho-social life cycle. Emphasis is placed on enhancement of the relationship between the developing person and familial, religious, neighborhood, educational, racial, and other suprasystems.

381. Human Behavior and Social Environment II (3). Prerequisite: SY 380. A review of the systems approach to the study of the life cycle with emphasis placed on abnormality. Stresses and crises that occur at particular points of vulnerability in the individual and family life cycle will be studied.

390. Methods of Social Work Practice I (3). Prerequisite: SY 330. Generalist helping principles, roles, and stages of the problem solving process are described. Generic interactional skills for engaging a variety of client systems are practiced.

391. Methods of Social Work Practice II (3). Prerequisite: SY 390. Analysis of the generalist approach to social problem solving. Advanced concepts and skills in implementing strategies for change with a variety of client systems.

400. The Community (3). May count as Social Work. See sociology for course description.

449. Field Instruction in Social Work (6). Prerequisites: Permission of Instructor. Field education is regarded as the culmination of the student's Social Work education. The general objectives of field education are to provide an opportunity for the students to extend his/her knowledge foundation of Social Work, to gain an in-depth understanding of one social service agency, and to develop practice skills in Social Work.

450. Field Integrating Seminar (6). Prerequisite: Permission of Instructor. This course provides the student with classroom experience to enhance the field education experience. The seminar will focus upon student experiences in the agency setting in such a manner as to help the student integrate skills gained from course work with skills being developed during field education.

451. The Community Practicum (3). Prerequisite: Permission of Instructor. Application of sociological perspectives in community organizations with seminar analysis of these experiences.



This 1913 group sprays fruit trees as a part of course work in "Manual Training and Agriculture." A farm was donated to the college by Mrs. Fannie Atkins for the purpose of instruction and financial aid. Students who needed help to pay their college costs could work on the farm in exchange for a room and meals.

COLLEGE OF MUSIC AND FINE ARTS

Daniel Marsengill: Dean

DEPARTMENT OF ART (ART)

Burn: Department Head

Associate Professors: Burn, Manners, Holmes

Assistant Professor: Shaw

Instructors: Gee, Osterbind

Students majoring in Art may select one of the following degree programs: B.A. Degree in Art with approved minor, B.A. Degree in Art with Art Concentration and approved minor, B.S. Degree in Education with Certification Class B Grades 4-8 Art and approved Second Teaching Field; B.S. Degree in Education with Certification Class B Grades 7-12 Art and approved Second Teaching Field; B.S. Degree in Education with Certification Class B Grades N-12 Art only.

A MAJOR IN ART consists of 30 hours of approved art courses which include Art Fundamentals (12 hrs.) 134, 233, 234, 240, Art History (6 hrs.) 371, 372, and Studio courses (12 hrs.) numbered 300 and above in a choice of two studio areas with at least 6 hours in one studio area.

A MAJOR IN ART WITH AN ART CONCENTRATION consists of 45 hours of approved art courses which include Art Fundamentals (12 hrs.) 134, 233, 234, 240, Art History (12 hrs.) 371, 372, and 374 or 375 or 376, and Studio courses (21 hrs.) numbered 300 and above in a choice of three studio areas with at least 12 hours in one studio area.

A MINOR IN ART consists of 21 hours of approved Art Courses which include Art Fundamentals (12 hrs.) 134, 233, 234, 240, 3 hours in Art History, (301 recommended), and 6 hours of studio courses numbered 300 and above. A minor, in unusual circumstances to meet specific needs and with approval of the Department Head, may consist of Art 134, 233, 301 and 12 hours of Art Courses numbered 300 and above.

A TEACHING FIELD ART (B.S.) WITH CERTIFICATION GRADES 4-8 consists of 42 hours of approved art and art education courses which include: art fundamentals (12 hrs.) 134, 233, 234, 240; art history (6 hrs.) 301 and approved elective; studio courses (12 hrs.) numbered 300 and above from a choice of two studio areas with at least 6 hours in one studio area; senior seminar/exhibit (3 hrs.) 499; and art education (9 hrs.) 362, 440, 442. Students pursuing this degree will select a second teaching field approved by the College of Education.

A TEACHING FIELD ART (B.S.) WITH CERTIFICATION GRADES 7-12 consists of 42 hours of approved art and art education courses which include: art fundamentals (12 hrs.) 134, 233, 234, 240; art history (6 hrs.) 301 and approved elective; studio courses (12 hrs.) numbered 300 and above from a choice of two studio areas with at least 6 hours in one studio area; senior seminar/exhibit (3 hrs.) 499; and art education (9 hrs.) 382, 440, 442. Students pursuing this degree will select a second teaching field approved by the College of Education.

TEACHING FIELD ART ONLY (B.S.) WITH CERTIFICATION GRADES N-12 consists of 67 hours of approved art and art education courses which include: art fundamentals (12 hrs.) 134, 233, 234, 240; art history (9 hrs.) 371, 372 and approved elective; studio courses (21 hrs.) numbered 300 and above from a choice of three studio areas with at least 12 hours in one studio area; senior seminar/exhibit (3 hrs.) 499; and art education (24 hrs.) 342, 362, 382, 442, 487, 440.

All art students are expected to seek advisement each semester from the Department Head or faculty advisor and become familiar with the general and specific degree requirement for the degree which they are seeking. Students majoring in Art will be expected to present a portfolio of their work for faculty review at the end of their Sophomore year. The Department of Art reserves the right to select class projects for a permanent collection. All majors will participate in a senior exhibit prior to graduation.

BACHELOR OF ARTS DEGREE

Major in Art with Approved Minor (a)

Instructional Media 101	1
English 101, 102, 141.....	8
American, English or World Literature	6
History 201, 202.....	6
¹ Social Science Electives	6
² Laboratory Science	12-16
Psychology 201	3
³ Modern Language or Approved Substitute	12
Art Fundamentals 134, 233, 234, 340.....	12
Art History 371, 372	6
⁴ Studio Courses 300 and 400	12
Minor and Electives	40-44
Total.....	<u>128(b)</u>

- (a) minor other than art.
- (b) of the total, 52 hours must be 300 or above.

BACHELOR OF ARTS DEGREE

Major in Art with Art Concentration and Approved Minor (a)

Instructional Media 101	1
English 101, 102, 141.....	8
American, English or World Literature	6
History 201, 202.....	6
¹ Social Science Electives	6
² Laboratory Science	12-16
Psychology 201	3
³ Modern Language or Approved Substitute	12
Art Fundamentals 134, 233, 234, 240.....	12
Art History 371, 372 and 374 or 375 or 376.....	12
⁴ Studio Courses 300 and 400	21
Minor and Electives	25-29
Total.....	<u>128(b)</u>

- (a) minor other than art.
- (b) of the total, 52 hours must be 300 or above.

¹ Social Science electives must not exceed 9 hrs. in history.

² A year of each from two different fields. Modern College Algebra 102 and Trigonometry 103 or Finite Math 104 (6 hrs.) may be used for one year of a laboratory science. If Mathematics, Chemistry or Physics is chosen, then General Science may not be used for the other year.

³ Recommended Language Substitutes: Music, Drama, Psychology, Philosophy, World History, Anthropology, and approval of department head.

⁴ A choice of two with 6 hours in one studio area.

⁵ A choice of three with 12 hours in one studio area.

BACHELOR OF SCIENCE IN EDUCATION

**Certification Class B Grades
4-8 Art**

Instructional Media 101	1
English 101, 102, 141, 201 or 202 or 301 or 302.....	14
Economics 220 or 221 or 224	3
History 101, 102 or 201, 202	6
¹ Social Science elective	3
² Natural and Physical Science and Math electives	12
Science or Math elective.....	3
Health and Physical Education 101.....	3
Special Education 300	3
Educational Psychology 332, 431, 442	9
Education 431, 380, 383, 382, 451, 483	18
Internships Education 485	9
Art Education 362, 440, 442	9
Art Fundamentals 134, 234, 233, 240	12
Art History 301 and elective.....	6
³ Studio Courses 300 and 400	9
Senior Seminar/Exhibit 499	3
Approved Second Teaching Field	27-36
Total	<u>150-159</u>

- (a) professional semester courses include (15 hrs.) EPY 332, ED 431, 485
 (b) of the total, 52 hours must be 300 or above

BACHELOR OF SCIENCE IN EDUCATION

**Certification Class B Grades
7-12 Art**

Instructional Media 101	1
English 101, 102, 141, 201 or 202 or 301 or 302.....	14
Economics 220 or 221 or 224	3
History 101, 102 or 201, 202	6
¹ Social Science elective	3
² Natural and Physical Sciences and Math electives	12
Science or Math elective.....	3
Health and Physical Education 101.....	3
Special Education 300	3
Educational Psychology 332, 431, 442	9
Education 431, 382, 484, 383	12
Internship Education 486	9
Art Education 382, 440, 442	9
Art Fundamentals 134, 234, 233, 240	12
Art History 301 and elective.....	6
³ Studio Courses 300 and 400	9
Senior Seminar/Exhibit 499	3
Approved Second Teaching Field	27-36
Total	<u>144-153</u>

- (a) professional semester courses include 15 hours EPY 332, ED 431, 486
 (b) of the total, 52 hours must be 300 or above

BACHELOR OF SCIENCE IN EDUCATION

Certification Class B Grades
N-12 Art Only

Instructional Media 101	1
English 101, 102, 141 and 201 or 202 or 301 or 302.....	14
Economics 220 or 221 or 224	3
History 101, 102 or 201, 202.....	6
¹ Social Science elective	3
² Natural and Physical Science and Math electives	12
Science or Math elective.....	3
Health and Physical Education 101.....	3
Special Education 300	3
Educational Psychology 329, 332.....	6
Education 431, 342 or 383, 382.....	9
Internship Art Education 487.....	9
Art Education 342, 362, 382, 442, 440.....	15
Art Fundamentals 134, 234, 233, 240	12
Art History 371, 372 and elective	9
⁴ Studio Courses 300 and 400	21
Senior Seminar/Exhibit 499	3
Total.....	132

- (a) professional semester courses include 15 hours EPY 332, ED 431, AED 487
 (b) of the total, 52 hours must be 300 or above

¹approved electives PSY 201, SY 221 or 310; GY 241; PSC 201 or 202.

²approved electives Natural Sciences (3-6 hrs.) BY 101, 102, 103 (1), 104 (1), 221, 222, 241, 242. Physical Sciences (3-6hrs.) CY 105, 106, 107 (2), 108 (2), GS 221, 222, GY 110 (4), 111 (4), PHS 101, 102, 101L (1), 102L (1). Mathematics (3-6 hrs.) MS 101, 102, 103, 104, 133, 141, 142 (5).

³a choice of two with 6 hours in one studio area.

⁴a choice of three with 12 hours in one studio area.

DESCRIPTION OF COURSES (Art)

134. Drawing I (3). One lecture and four studio periods a week. Practice in different basic drawing techniques and media.

233. Design I (3). One lecture and four studio periods a week. Two dimensional projects related to design principles, theories, and techniques. Discussions and slide lectures.

234. Drawing II (3). Prerequisite: Art 134. One lecture and four studio periods a week. Concentration upon the refinement of technical proficiency with emphasis on the expressive potential of drawing media.

240. Design II (3). Prerequisites: Art 134 and 233. One lecture and four studio periods a week. Advanced problems in two-dimensional and three-dimensional design, theories and techniques. Discussions, slide lectures.

301. Art Appreciation (3). Exploration of art forms of the past and present for understanding of purpose, meaning, and nature of art. Awareness, appreciation, and visual enjoyment of art are stressed.

303. Beginning Painting (3). Prerequisites: Art 134 and Art 233. Introduction to formal and technical problems of painting with an emphasis on fundamental concepts and practices.

- 309. Ceramics I (3).** Six studio hours a week. Problems in designing, glazing and firing ceramic objects.
- 315. Crafts Media (3).** Six studio hours a week. Introduction to a variety of crafts media and techniques. Emphasis on expressive potential of each media and craftsmanship.
- 319. Beginning Sculpture (3).** Prerequisites: Art 134 and Art 240. Six studio hours a week. Introduction to three-dimensional design problems and sculpture media.
- 329. Beginning Commercial Design (3).** Prerequisites: Art 134 and Art 233. Six studio hours a week. Introduction to illustration and lettering.
- 362. Beginning Printmaking (3).** Prerequisites: Art 134 and Art 233. Six studio hours a week. Fundamentals of printmaking. Studio work in woodcuts, etching and serigraph.
- 369. Beginning Photography (3).** Prerequisite: Instructor's approval. One lecture and four studio periods a week. Introduction to basic black and white photography and darkroom techniques with emphasis on aesthetic qualities of photography.
- 371. Art History I (3).** The major visual art forms from Prehistoric through Gothic time periods are studied through slide lectures. The formal aspects of the art as well as its cultural context are explored. Offered Fall only.
- 372. Art History II (3).** The major visual art forms from the Renaissance to the present are studied through slide lectures. The relationships of art, artist, and society are explored as well as the formal aspects of the art. Offered Spring only.
- 373. Theories of Art (3).** Prerequisite: Nine hours in studio courses. An analysis of creative thought and a study of our cultural heritage in the plastic arts. Seminar.
- 374. Art History III (3).** Prerequisites: Art 371, 372. Painting, drawing, and printmaking in the nineteenth century are studied through slide lectures. Offered alternate semesters.
- 375. Art History IV (3).** Prerequisites: Art 371, 372. Painting, drawing and printmaking in the twentieth century are studied through slide lectures. Offered alternate semesters.
- 376. Art History V (3).** Prerequisites: Art 371, 372. Modern sculpture and architecture are studied through slide lectures. The development of contemporary forms will be traced from the nineteenth century to the present. Offered alternate semesters.
- 403, 404. Painting II, III (3) (3).** Prerequisites: Art 303. Two semesters. Six studio hours a week. Advanced work in painting with an emphasis on creative expression and a furthering development of the basic concepts and fundamentals.
- 409, 410. Ceramics II, III (3) (3).** Prerequisites: Art 309. Two semesters. Six studio hours a week. Advanced studio work in ceramics.
- 415. Weaving (3).** Six studio hours a week. Exploration of a variety of looms and techniques of weaving. Survey of historical and contemporary weavings. Emphasis on design and craftsmanship.
- 417. Metal Design (3).** Six studio hours a week. Concentration upon technical proficiency and design sensitivity of metal in jewelry and related objects.
- 419, 420. Sculpture II, III (3) (3).** Prerequisite: Art 319. Two semesters. Six studio hours a week. Advanced work in sculpture with emphasis on dynamic spatial form.
- 429, 430. Commercial Design II, III (3) (3).** Prerequisite: Art 329. Two semesters. Six studio hours a week. Advanced problems in graphic design.
- 462, 463. Printmaking II, III (3) (3).** Prerequisite: Art 362. Two semesters. Six studio hours a week. Advanced studio work in printmaking media.
- 469, 470. Photography II, III (3) (3).** Prerequisite: Art 369. Two semesters. Six studio hours a week. Concentration on advanced darkroom techniques with emphasis on creative aspects of photography.
- 491, 492, 493, 494, 495, 496. Individual Study (3), (3), (3), (3), (3), (3).** Prerequisite: approval of Department Head and instructor prior to registration.

499. Senior Seminar and Exhibit (3). Senior seminar and exhibit is required of senior art majors and should be taken the semester of graduation. Seminar will cover the important aspects of planning and hanging an exhibit and the preparation of a portfolio and resume. The fruition of this course will be the Senior Exhibit.

DESCRIPTION OF COURSES (AED)

342. Nursery/Elementary Art Materials and Methods (3). Prerequisite: Admission to teacher education. Materials, methods and problems of teaching art in nursery through elementary school.

362. Middle/Junior High Art Materials and Methods (3). Prerequisite: Admission to teacher education. Materials, methods and problems of teaching art in the middle or junior high school.

382. High School Art Materials and Methods (3). Prerequisite: admission to teacher education. Materials, methods and problems of teaching art in high school.

350. Crafts for the Classroom (3). Methods and materials of teaching crafts, N-12.

440. Seminar in Art Education (3). Prerequisite: approval for professional semester. The historical and philosophical background of art education in America and its effects on educational issues. Offered Spring only.

442. Measurement and Evaluation of Learning in Art Education (3). Prerequisite: Appropriate AED Methods course(s) AED 440. Evaluation of students achievement using results in assessing teacher competence and writing objective and curriculum.

487. Internship: Nursery - Grade 12 (9). Prerequisite: Approval for professional semester, directed teaching in art, conferences with University supervisor, weekly seminars.

DEPARTMENT OF DRAMA (DR)

Ward: Acting Department Head
Associate Professor: Claeren
Assistant Professor: Ward

Requirements for a major in drama: A minimum of thirty hours, which must include DR 242, 250, 350, 450, 341, 361, 362, 384, 463 and nine hours of approved electives.

Requirements for a minor in drama: A minimum of twenty-one hours, which must include DR 242, 250, 350, 450, 341, 361, 362, 384 and three hours of approved electives.

Requirements for the B.S. Degree in Education (Drama, Single Concentration — N-12) are: DR 242, 250, 350, 450, 341, 361, 362, 383, 384, 390, 443, 445, 463 and six hours of drama electives. Requirements for the B.S. Degree in Education (Dramas as one of two fields — N-12 or Middle/Junior or High School) are: DR 242, 250, 350, 450, 341, 361, 362, 384, 390 and six hours of drama electives.

COURSE DESCRIPTIONS

242. Introduction to the Theatre (3). A brief survey of the theatre relating to stage design, plays, acting and directing.

250, 350, 450. Student's Theatre (1). Active participation in the department's plays in fields of acting, scenery construction, painting, lighting, costumes and make-up. Three laboratory hours per week arranged with drama faculty.

260. Summer Theatre Workshop (3). An intensive course in which students work on all phases of theatre production from building scenery to performing in a major play which will be produced for the public during the last week of the course.

281, 381, 481. Dramatics Laboratory (1). Experiments in the basics of acting. Limit 1 hour credit per semester. A total of 3 hours.

341. Acting (3). Training for the actor in the body and the voice. Mime, oral exercises, improvisations, and selected scenes.

342. Directing (3). Prerequisite: 341 and permission of instructor. Fundamental principles of theatrical directing.

351. Playwriting (3). Prerequisite: 242. Exercises in dramaturgical technique. One-act and full-length, musicals, comedies and tragedies are studied in depth.

354. Movement for the Stage (3). The examination and application of the theories of stage movement and the metakinetic process. Emphasis placed on the development of movement roles within various styles of theatrical production. The imaginative and artistic use of the whole body in the development of acting roles.

361, 362. Theatre History (3) (3). Conditions under which the great plays of the world have been produced. Audience, actors, patrons, physical conditions, architecture, and the relation to the other arts. 1st semester: Antiquity to 1600. 2nd semester: 1600 to present.

383. Puppetry (3). Scope and development of puppetry throughout the world. Practical experience in the design, making, and performing puppets.

384. Stage Crafts (3). Physical theatres, scenery construction and painting, properties, lighting and sound. Prerequisite: 242.

385. Theatrical Design (3). Principles and problems of staging in arena, thrust, proscenium, and flexible theatres. Designs for settings of plays in models and perspective renderings.

386. Stage Lighting (3). Principles and problems of lighting for mood and effect in play production.

387. Stage Make-up (3). Creation of straight, character, middle-age, old age, beards, rubber prosthesis, and stylized make-up to aid the actor.

388. Stage Costume Design and History. (3). Exploration of basic design elements and fabrics and their culmination into stage costumes; period, character, and stylized.

389. Sound Effects for the Performing Arts (3). Production and design of sound effects, microphone selection and placement, recording techniques and equipment.

390. Speech for the Performing Arts (3). A course designed to improve diction, pronunciation, accent, reading and intonation.

398. Costume Techniques (3). Techniques of cold forging, corseting, period dress making, armor, and related costume techniques. Prerequisite: DR 388.

441. Acting II (3). Advanced acting scenes and problems of various periods.

443. Oral Interpretation (3). Development of skill in reading aloud. Study of the methods used to convey the intellectual, emotional, and aesthetic values of literature to an audience.

445. Child Drama (3). Instruction in the supervision of pre-school through elementary grade children in the spontaneous expression of ideas and characters through the theatrical form. Emphasis on the contribution of informal drama to the total development of the child.

463. Dramatic Theory (3). An investigation into the major theories of drama from Aristotle to the present. Extensive reading of playscripts as well as analytical works.

464. Dramatic Criticism (3). An examination of the aesthetics and function of dramatic criticism as well as the work of practicing critics. Application of critical principles through reviewing theatrical performances.

475. Special Problems in Drama (3). Individually designed and supervised projects combining research and practical work in specific areas of theatrical endeavor.

486. Stage Lighting II (3). Advanced lighting techniques and design problems.

488. Costume Design II (3). A further exploration of design techniques, a study of prominent professional designers and six design projects to develop a costume portfolio. Prerequisite: DR 388.

DEPARTMENT OF HOME ECONOMICS (HEC)

Clark: Department Head
Associate Professors: Clark, Sowell, Yocum
Assistant Professor: Chandler
Instructors: Edwards, Nemeth

The home economics curriculum is planned to help young people improve personally, to prepare for home and family, and to train professionally in the field of home economics. Five degrees are offered — a Bachelor of Science degree with a major in clothing; a Bachelor of Science degree with a major in dietetics; a Bachelor of Science degree with a major in foodservices; a Bachelor of Science degree with a major in home economics; a Bachelor of Science in Education with a major in Home Economics. Minors offered within the department include: a minor in home economics; a minor in clothing; a minor in food, nutrition, and foodservices. See appropriate areas for specific courses required for each minor.

Home Economics courses may be elected by non-majors. Home Economics courses are not properly oriented to the credit by challenge procedure.

BACHELOR OF SCIENCE IN EDUCATION: TEACHING FIELD HOME ECONOMICS

A Bachelor of Science degree in Secondary Education with a major in home economics is offered. This major provides training for the teaching of vocational and non-vocational home economics. Students who meet the requirements will be qualified to receive a Class B Secondary Professional Certificate. This certificate is acceptable for the teaching of home economics, both vocational and non-vocational, in the secondary schools of Alabama. Majors in home economics are also qualified for positions in Home Economics Extension Service, home economics in business, food service supervision and special areas of social service. Majors in this field will be prepared to pursue graduate study in the various fields of home economics.

The prescribed course for the major trains students professionally for teaching and other related fields and prepares young people for the responsibilities of homemaking.

Summary of Requirements

Instructional Media 101	1
English 101, 102, 141, 201, or 202, and 301 or 302.....	14
History 101, 102 or 201, 202	6
Psychology 201, SY 221, Ec. 354	9
Physical Education 101.....	3
Mathematics 133	3
¹ Science	12
Art 233	3
Home Economics 122, 131, 221, 232.....	12
Home Economics 319, 323, 328, 341.....	12
Home Economics 352, 355, 371.....	9
Home Economics 431, 442, 471, 480.....	12
Education Psychology 332, 431, and 442 or H.Ec. 364	9
Education 383, 431.....	6
Education (Home Economics) 362, 461, 486	15
Special Education 300	3
Approved Electives in Teaching Field.....	4
Total.....	133

¹ A full year in either a biological or a physical science must be taken as part of this requirement of twelve semester hours. General Science may not be used.

**BACHELOR OF SCIENCE DEGREE
MAJOR IN HOME ECONOMICS***

This major provides a broad background in the field of home economics, while allowing a specialty area in a minor. Graduates will be prepared to enter both traditional and not-traditional home economics careers such as social work, Extension Service, business, and consumerism.

A minor may be earned in Home Economics by completing 21 hours to include the following courses: 122, 131, 328 or 322, 352, 355, 371, and 471.

Summary of Requirements

Instructional Media 101, 451	4
English 101, 102, 141, 201, or 301, 202, or 302	14
History 201, 202	6
Sociology 221	3
Journalism 302 (or approved journalism course).....	3
¹ Geography 344	3
Mathematics 133 or 101 or 102	3
² Science	12
Economics 354	3
Art 233.....	3
Home Economics 122, 131, 221, 232	12
Home Economics 355, 322 or 328, 323, 341, 352, 371.....	18
Home Economics 431, 333, 442, 471	12
Psychology 201.....	3
Electives and/or minor (Total number of electives depend on the minor selected)	29
Total	128*

¹Taught Fall semester only

²One full year either biological science or physical science must be taken as part of this requirement of twelve hours. General Science may not be used.

*52 hours must be in courses number 300 or above.

**BACHELOR OF SCIENCE DEGREE
MAJOR IN CLOTHING***

A Bachelor of Science degree with a major in Clothing offers training for the buying, selling, or managing of a ready-to-wear department in a store.

A minor in clothing may be obtained by completing a minimum of 21 hours in clothing. Courses taken for a minor should include Home Economics 130, 131, 232, and 331 or 431, with additional clothing electives for a total of 21 hours.

Summary of Requirements

Art 233, 329.....	6
Economics 220, 221	6
English 101, 102, 141, 201, 202 (or 301, 302)	14
History 201, 202.....	6
Instructional Media 101	1
Psychology 201	3

Mathematics 101, 122.....	6
Sociology 221.....	3
¹ Science	10-13
Home Economics 130, 131, 232, 331, 333, 334, 431, 433, 435	30
Approved Minor.....	21*
General Electives.....	19-22
Total.....	128**

*Marketing is the recommended minor. The courses required for the marketing minor will include MKT 376, 377, 461, 494, 495, and MGT 483 and 470. Other minors available with advisor's approval.

¹One full year of either biological or physical science must be taken. General Science may not be used.

**52 hours must be in courses 300 or above.

BACHELOR OF SCIENCE MAJOR IN DIETETICS

The Bachelor of Science degree with a major in Dietetics is planned to meet the requirements of plan IV of the American Dietetic Association. Upon completion of requirements of this program students may make application for an approved dietetic internship leading to membership in the American Dietetic Association. Additional information concerning other routes may be obtained from an academic advisor. Dietitians work in areas of commercial foodservices, hospital dietetics, public health services, and community nutritional services.

Summary of Requirements

Instructional Media 101.....	1
English 101, 102, 141, 201 or 301, 202 or 302.....	14
History 201, 202.....	6
Sociology 221.....	3
Economics 224.....	3
Psychology 201.....	3
Biology 101, 103, 262, 323	11
Chemistry 105, 107, 109, 110*, 164.....	13
Mathematics 101	3
Home Economics 122, 221, 311, 312.....	12
Home Economics 322, 323, 324, 325, 326, 327.....	18
Home Economics 420, 421, 422, 424.....	12
General Electives.....	29
Total.....	128**

*Optional

**52 hours must be in courses number 300 or above.

BACHELOR OF SCIENCE DEGREE MAJOR IN FOOD, NUTRITION, AND FOODSERVICES

The degree in Foodservices offers a choice of two concentrations. The first concentration, Foodservice Systems, offers academic background and field experience in the area of foodservice management. The concentration in Food and Nutrition offers academic background in the area of nutrition. This concentration meets Plan IV requirements for admission into the American Dietetic Association. If a student plans to become a

Registered Dietitian, the usual route is through a six to twelve month internship following graduation. Additional information concerning other routes may be obtained from an academic advisor.

A minor may be earned in Food Nutrition and Foodservices by selecting one of two concentrations. The first concentration, Foodservice Systems, would require the student to earn 21 hours in this area and would include the following courses: HEC 122, 323, 328, 325, 326, 422, 424.

The second concentration, Food and Nutrition, would also require completion of 21 hours in the area and would include the following courses: HEC 122, 221, 312, 322, 323, 324, 327.

Summary of Requirements

General Requirements (required for both options)

IM 101	1
English 101, 102, 141, 201 or 301, 202 or 302.....	14
History 201, 202.....	6
Sociology 221.....	3
Economics 224, 354	6
Psychology 201	3
Biology 101, 102, 103, 104, 323.....	12
Computer Science 201.....	3
Management 383	3
Total	51

A. Concentration in Foodservices

General Requirements	51
Chemistry 101 or 105 and 107.....	3-5
Mathematics 101 or 133.....	3
Management 362, 470 or 490.....	6
Accounting 391, 392.....	6
Home Economics 122, 221, 323, 325, 326, 328, 341, 371, 422, 423, 424, 425, 442	39
Home Economics Electives.....	6
General Electives.....	12-14
Total	128**

B. Concentration in Food and Nutrition

General Requirements	51
Biology 262	3
Chemistry 105, 107, 109, 110*, 164.....	12-13
Mathematics 101	3
Home Economics 122, 221, 312, 322, 323, 324, 325, 326, 327, 420, 421, 422, 424	39
Home Economics Electives.....	6
General Electives.....	14-15
Total	128**

*Optional

**52 hours must be in courses numbered 300 or above.

DESCRIPTION OF COURSES

122. Fundamentals of Food Preparation (3). Two lectures and one laboratory period. An introduction to the study of food including selection, principles of preparation, and evaluation of food products. Lab fee.

130. Introduction to Clothing (3). Personal appearance, selection, and care of clothing and textiles; fundamentals of clothing construction. Lab fee; see fee listing.

131. Clothing Construction (3). Prerequisite: 130 or permission of instructor. Evaluation and use of construction techniques applicable for newer finishes and fabrics. Lab fee; see fee listing.

221. Meal Management (3). Two lectures and one laboratory period. A survey of the marketplace and consumer protection laws that regulate the wholesomeness and maintain the nutritional quality of food. The application of managerial skills in the production of family meals. Lab fee.

222. Creative Culinary Arts (3). Prerequisite: HEC 122. Laboratory experiences in creative food preparation with an emphasis on planning and preparing for social events. Lab fee.

232. Textiles (3). Textile fabrics, their composition, structure and use along with weaves, finishes and care. Natural and manmade fibers used in clothing. Lab fee; see fee listing.

311. Introduction to Dietetics (3). An introduction to the profession and practice of dietetics. Prerequisites: HEC 322, CY 164, and BY 262.

312. Materials and Methods of Nutrition Education (3). Prerequisite: HEC 322 or 328. Materials and methods essential for effective nutrition education for individuals and groups within the population.

314. Community Nutrition (3). Prerequisites: HEC 312 and 321. Application of nutrition knowledge to the solution of community nutrition problems during the interaction of nutrition personnel and the community. Organizations engaged in community work, and interpretation of nutrition information to the public.

319. Introduction to Quantity Food Production (3). Prerequisite: HEC 221. Two lectures and one laboratory period. An introduction to institutional preparation of food and the use and maintenance of institutional equipment. Lab fee.

320. Nutrition for the Aging (3). Nutritional problems of the aging individual with emphasis on nutrient needs, food consumption patterns, and the effect of nutrition on the aging process.

321. Systems Analysis in Food Management (3). Prerequisite: HEC. 221. Use of the computer in dietetics programs such as menu planning, inventory control, production control, food cost accounting, and patient nutrient intake analysis.

322. Normal Nutrition (3). Three one-hour lecture periods. Prerequisites: HEC 221 and Chemistry 105. Application of fundamentals of human nutrition including various nutrients and requirements for different stress groups.

323. Experimental Food Cookery (3). Two lectures and one laboratory period. Prerequisites: HEC 221 and CY 109. The advanced study of food including the physical and chemical properties of food and factors affecting the quality of standard food products. Lab fee.

324. Advanced Nutrition (3). Three lecture periods. Prerequisites: HEC 322, CY 164, and BY 262. Normal nutrition metabolism and an overview of aberrations in normal metabolism as affected by diseases. An introduction to diet therapy principles and drug-nutrient interactions.

325. Quantity Food Production (3). Prerequisite: HEC 323. Two Lectures and one Laboratory period. Introduction to institutional preparation and service of food, equipment operation and maintenance, menu planning and recipe standardization. Lab fee.

326. Foodservice Systems Management (3). Prerequisite: HEC 325. Three Lecture periods. An introduction to the systems approach to organizational structure and relationships; sanitation and safety.

327. Nutrition in the Life Cycle. (3). Three Lecture periods. Prerequisites: HEC 324, CY 164, and BY 262. The nutritional requirements for individuals at each stage of the life cycle. Nutritional assessment, dietary interviewing and counseling are also included.

328. Introductory Nutrition (3). Three lecture periods. Principles of nutrition education for different ages and socio-economic backgrounds.

329. Child Nutrition (3). Three lecture periods. Nutritional needs of the child at different ages. The influence of family food habits and patterns upon health of the individual throughout life.

330. Braids, Trims, and Stitchery (3). Prerequisite: HEC 131. Three lecture periods. The use of individuality in creating unusual trims and accessories for dress. Lab fee; see fee listing.

331. Fashion Fundamentals and Merchandising (3). Prerequisite: HEC 131. Sources, events and people influencing fashion trends, and their development. Organization and structure of the fashion industry with emphasis on retailing, sources of information on fashion and trends.

332. Problems in Clothing (3). Prerequisite: HEC 131. One lecture period and four laboratory periods. A comparison of construction techniques in relation to time, design, fabrics and their finishes and care. Emphasis on construction, care and use of fabrics requiring special treatment. Lab fee; see fee listing.

333. Family Clothing (3). Prerequisite: HEC 131. One lecture period and four laboratory periods. Planning, selection, purchasing and care of family clothing. Emphasis on construction of children's clothing. Lab fee; see fee listing.

334. Flat Pattern Design (3). Prerequisite: HEC 131. Application of fundamental principles and procedures in the development and use of the master pattern. Applying flat pattern principles to designing patterns, fitting and altering commercial patterns. Lab fee; see fee listing.

335. Display (3). Prerequisites: Art 233. Three (3) lecture periods. Design principles applied to various display needs. Investigation and practical experience in planning, execution, and evaluation of 2-D and 3-D displays for commercial, educational, other needs.

341. Household Equipment (3). Three lecture periods. Correlates the study of the best use of family resources of time, money and energy with the study of materials, construction, operation, installation, cost and use of household equipment. Lab fee; see fee listing.

352. Child Growth and Development and Nursery School Participation (3). Two class periods and two laboratory periods. Development and behavior of young children from infancy through the pre-school years. Emphasis on the basic needs of young children for their normal growth and development. Lab fee; see fee listing.

355. Family Living and Parenthood Education (3). Three lecture periods. Roles and responsibilities of family members and skills needed to function within the family setting; emphasis on interpersonal communication, skills, and knowledge in the area of parenthood education, and the developmental needs of family members.

Education 362. Home Economics Education (3). The basic philosophy and objectives of home economics in general and vocational education for the high school students. A study of homemaking experiences that contributes to the total growth and development of high school students by application of the principles of psychology and education. Special emphasis on meeting the needs for personal and home living, and on homemaking responsibilities of high school girls. It includes the selection, organization and use of teaching materials; the identification and solution of teaching problems.

364. Evaluation in Home Economics (3). Three lecture periods. Prerequisites: Admission to education. An introduction to measurement and evaluation in the home economics program, grades 7-12. Construction and uses of tests and other evaluation tools.

371. Home Management (3). Prerequisite: Junior standing. Emphasizes the concepts of home management; decision-making, alternative seeking, goal defining, value consciousness, resource allocation, and organization. Lab fee; see fee listing.

415. Reading in Foods and Nutrition (3). Three lecture periods. Prerequisite: HEC 322. Review of current literature in foods and nutrition and evaluation of it in group discussions.

416. Readings in Foodservice Management (3). Three lecture periods. Prerequisite: HEC 422. Review of current literature in foodservice management, and evaluation of it in group discussions.

418. Food and Man. (3). Three lecture periods. Prerequisites: HEC 221 and 322. Cultural and scientific influences on foodways, food habits and nutritional status.

419. Current Trends in Foods and Nutrition (3). Three lecture periods. Prerequisites: HEC 221 and 322. Recent developments in the field of foods and nutrition.

420. Diet and Disease I (3). Prerequisite: HEC 327. Counseling and coordinated nutritional services for clients, adaptation of the normal diet for texture, energy, carbohydrate, protein, and lipids.

421. Diet and Disease II (3). Prerequisite: HEC 420. A continuation of Diet and Disease I. Modification of the normal diet in diseases of the hepatobiliary system, kidney, and other dietary modifications.

422. Foodservice Management I (3). Three lecture periods. Prerequisite: HEC 326. Management techniques and functions in foodservice with emphasis on personnel management.

423. Catering (3). Prerequisite: HEC 221. Advanced quantity food production of various types of catered functions, including menu planning, food purchasing, food preparation, quality control, and effective visual presentation of food. Lab fee.

424. Foodservice Management II (3). Three lecture periods. Prerequisite HEC 422. Methods of analysis for required materials and personnel in foodservice and equipment selector. Effective use of personal as a resource.

425. Practicum in Foodservice Management (6). Prerequisite: Approval of instructor. Practical experiences in foodservice management obtained in approved institutions. Must be planned in advance. Usually offered in the Minimester.

427. Special Problems in Foods, Nutrition, and Institutional Management (3). Individual work in selected areas.

428. International Food Preparation (3). Two lectures and two laboratory periods. Prerequisites: HEC 221. Study of food practices, preparation, and service of dishes typical of countries around the world. Lab fee; see fee listing.

430. Internship in Clothing and Textiles (6). Off-campus, supervised work experience in a cooperative program with approved business establishments which merchandise apparel, textiles, and/or home furnishings. Prerequisites: Senior standing; 2.0 GPA; approval of faculty program supervisor. Must be planned in advance. Open only to clothing majors.

431. Tailoring (3). Prerequisites: HEC 130 and 131. One lecture period and four laboratory periods. Problems of construction involving professional techniques in tailoring. Lab fee; see fee listing.

432. History of Costume (3). Three lecture periods. Costume development for man from prehistoric to modern time. A study of cultural forces in relation to evolution of costume.

433. Advanced Tailoring (3). Prerequisite: HEC 131. One lecture period and four laboratory periods. Principles of tailoring applied to the construction of men's clothing. Lab fee; see fee listing.

434. Draping and Costume Design (3). One lecture period and four laboratory periods. Designing and draping original costumes; emphasis on distinctive effects related to personality, figure, coloring and fabric characteristics. Prerequisite: HEC 130, 131 and 334. Lab fee; see fee listing.

435. Problems in Clothing and Textiles for the Consumer (3). Problems affecting the buyers and the consumer in purchasing textiles and non-textile products.

442. Management Experiences (3). Prerequisites: Senior standing, HEC 221, 323, 341, 371, Economics 354 and consent of the head of the department. Laboratory, experiences provide the application of managerial principles used in family economics and home management concepts of life styles, investment and dimensions of human resources, time management, energy management, work simplification, storage and household production. Lab fee; see course listing. This course is an eight-week block course.

Education 461. Home Economics Education (3). Prerequisite: Senior standing, HEC 362. Organization of the home economics curriculum in high schools, and relation of home economics to the total high school program. Closely integrated with Education 486 and dealing with problems experienced in supervised teaching.

471. Home Planning and Furnishings (3). Prerequisite: HEC 131. Three lecture periods. Selecting the home and its furnishings from the standpoint of beauty, economy, individuality and use. Special problems of location, plans, house construction, lighting and heating; selection, arrangement and care of furnishings. Lab fee; see fee listing.

472. Creative Expressions in Home Furnishings (3). One lecture and four laboratory periods. Prerequisite: HEC 471. Selection and use of household fabrics and materials including the design and construction of home furnishings and accessories. Lab fee; see fee listing.

473. Survey of Contemporary and Period Furnishings (3). History of selected periods of interiors and furnishings and a study of contemporary and period furniture styles. Lab fee; see fee listing.

480. Occupational Home Economics (3). Three lecture hours with other laboratory hours to be arranged. Prerequisite: Home Economics Education 362. A study of home economics-related occupations and cooperatively planned work experience in these occupational areas.

Education 486. Internship in the High School (9). 10 weeks. Prerequisite: Completion of education courses over a two semester sequence and permission of instructor. Supervised teaching and observance in vocational home economics.

DEPARTMENT OF MUSIC (MU)

Fairleigh: Department Head

Professor: Attinger

Associate Professors: Armstrong, Davis, Fairleigh, Grumley,

Marsengill, Roberts, Surace

Assistant Professors: Anderson, Dobbins, Francis, Maltese, Merriman, Walters

Instructors: Andree, Fields, Tonne, Tyler, Zimmerman

The Department of Music offers a Bachelor of Arts degree in music and the Bachelor of Science degree in Music Education. The B.S. degree in Music Education fulfills the requirements for the special professional certificate to teach music in the public schools in Alabama on both the elementary and secondary level.

Entrance requirements: The regular entrance requirements apply to the candidate for either the B.A. or B.S. degree in Education, plus special placement examinations in applied music and music theory, given at the time of matriculation.

The Department of Music offers two plans under the Bachelor of Arts Degree. Plan I offers breadth of study with a liberal arts emphasis, while Plan II allows a student an opportunity to stress music to a degree that could lead to professional performance or other such application.

Music Major

See curriculum outlines on following pages for B. A. and B. S. in Education degrees with a major in music.

Music Minor

Music 101, 102 (Music Theory)	4
Music 111, 112 (Aural Skills)	2
Individual Applied Music (4 consecutive semesters).....	8
Music 104, 105, 204 (Concerts and Recitals)	0
Music 311, 312 (Music Literature).....	4
Music 390 (Conducting)	2
Ensemble (4 semesters).....	4
Total	24

Music Electives

Introduction to Music 233 and all ensembles are available to any student in the University and are designed to meet the needs of the general student who wishes to increase his appreciation and understanding of music. Prerequisites are listed in the published class schedules.

SUMMARY FOR BACHELOR OF SCIENCE DEGREE IN EDUCATION

Teaching Field — Music

Music Major Area

Music 101, 102, 201, 202, 301, 302 (Music Theory)	12
Music 111, 112, 211, 212 (Aural Skills)	4
¹ Individual Applied Music (8 consecutive semesters).....	16
Music 104, 105, 204, 205, 304, 305 (Concerts and Recitals).....	0
Music 400 (Senior Seminar)	0
Subtotal	32

Music Minor Area

Music 390 (Conducting)	2
Music 411, 412 (Music History and Literature)	4
² Music 170, 171 (Class Piano)	2
³ Instrumental and Vocal Class Applied Music	5
Group One (one semester hour each)	
Music 280 (Class Woodwinds)	Music 290 (Class Strings)
Music 281 (Class Brass)	Music 291 (Class Percussion)
Group Two (one semester hour each)	
Music 160, 161 (Class Voice)	
Music 270, 271 (Keyboard Harmony and Accompaniment)	

⁴ Large Ensemble.....	8
Small Ensemble (See Academic Advisor).....	2
Subtotal.....	23
General Education	
English 101, 102 (English Composition).....	6
English 141 (Oral Communication).....	2
English 201 or 202 (American Literature).....	3
English 301 or 302 (English Literature).....	3
History: 2 courses to be selected from History 101, 102 (World History); or History 201, 202 (American History).....	6
Economics: 1 course to be selected from Economics 200 (Principles of Economics I); or Economics 221 (Principles of Economics II); or Economics 224 (Survey of Principles of Economics).....	3
Instructional Media 101 (Orientation to Instructional Media).....	1
Psychology 201 (Principles of Psychology).....	3
⁵ Natural Science: to be selected from Biology 101, 102, 103, 104 (General Biology) Biology 241, 242 (General Zoology) Biology 221, 222 (General Botany).....	3-6
⁵ Physical Science: to be selected from General Science 221, 222 (General Science) Geography 110 (Physical Geography) Geography 111 (Introductory Geomorphology).....	3-6
⁵ Mathematics: to be selected from Mathematics 101 (College Algebra) Mathematics 102 (Modern College Algebra) Mathematics 103 (Plane Trigonometry) Mathematics 104 (Finite Mathematics) Mathematics 133 (Fundamentals of Mathematics) Mathematics 141 (Calculus I) Mathematics 142 (Calculus II).....	3-6
Physical Education 101 (Introduction and Foundations of Health and Physical Education).....	3
Elective in the Natural, Physical, or Social Sciences.....	3
Subtotal.....	45
Professional Education	
Special Education 300 (Survey of Exceptional Children and Youth).....	3
Educational Psychology 329 (Developmental Psychology).....	3
Educational Psychology 332 (Educational Psychology).....	3
Education 431 (School and Society).....	3
Teaching Reading in Content Area: to be selected from Education 342 (Teaching of Reading); or Education 383 (Reading in Secondary Schools).....	3
Music Education 371 (Elementary Music Materials and Methods).....	3
Music Education 381 (Secondary Music Materials and Methods).....	3

⁶ Seminars in Ensemble Literature: to be selected from	
Music Education 440 (Seminar in Instrumental Music); or	
Music Education 441 (Seminar in Choral Music)	3
Music Education 442 (Measurement and Evaluation	
in Music)	3
Music Education 487 (Internship N-12)	9
Subtotal	36
Total	136

¹ Individual applied music must be studied each semester for eight semesters. In the eighth and final semester the work consists of presenting a public recital. To aid the student in preparing for this final project, the Music Department offers a special senior seminar under the guidance of the applied music instructor.

Normally all eight semesters should be taken in the same subject (voice, piano, clarinet, etc.). In exceptional cases a change from one subject to another may be permitted in the major area with the approval of the instructors involved and the Department Head, but in such cases the student will be expected to declare clearly what subject his/her major instrument is and to pass the senior seminar work in that instrument.

² Keyboard skill being an invaluable asset to any music teacher, all majors except piano majors are required to take Music 170 and 171 (Class Piano). Any student who demonstrates on his/her placement examinations given at matriculation that he/she already has enough skill to pass the final examination in Music 170 and/or Music 171 may elect to challenge either or both of these courses.

³ Students with an area concentration in instrumental music will elect a minimum of three semester hours from the class applied courses listed under Group One; those with an area concentration in vocal/choral music will elect a minimum of three semester hours from the class applied courses listed under Group Two.

⁴ Every music student is encouraged to participate in as many ensembles as possible, each for one hour's credit, since practical experience of this kind will prove invaluable to the student in future teaching careers. Each student is required to participate in a large ensemble stressing his/her major applied area. This selection includes a cappella choir, chorus, band, orchestra, and piano ensembles. Any deviation in the selection of large ensembles must have the written approval of the Head of the Music Department.

⁵ A total of 12 semester hours must be completed in the natural sciences, the physical sciences, and mathematics. A minimum of 3 semester hours are required in each of these areas.

⁶ Students with an area concentration in instrumental music will elect Music Education 440; those with an area concentration in vocal/choral music will elect Music Education 441.

SUMMARY FOR BACHELOR OF ARTS DEGREE WITH MAJOR IN MUSIC

MAJOR IN MUSIC (NON-MUSIC MINOR)

Music Major Area

Music Theory 101, 102; 201, 202; 301, 302	12
Aural Skills 111, 112, 211, 212	4
Individual Applied Music (8 consecutive semesters)	16
Senior Seminar 400	0
Music History and Literature 411, 412	4
Music Ensembles (Band, Orchestra or Chorus)	8
	44

General Education

English 101, 102, 141 and either 201, 202 or 301, 302	14
Social Sciences (including History 201 and 202)	12
Science: Biology 101, 102, 103, 104; General Science 221, 222*	14
Psychology 201	3
Instructional Media 101	1
	44

Minor area and Electives	40
Total	128

MAJOR AND MINOR IN MUSIC

Music Major and Minor

Major Area

Applied Music 136, 137; 236, 237; 336, 337; 436, 437.....	32
Senior Seminar 400	0
Music History 411, 412	4
Ensemble (8 consecutive semesters).....	8
	44

Minor Area

Theory 101, 102; 201, 202; 301, 302.....	12
Aural Skills 111, 112, 211, 212.....	4
Music Literature 311, 312.....	4
Class Piano 170, 171.....	2
	22

General Education

English 101, 102, 141, and either 201, 202, or 301, 302.....	14
Social Sciences (including History 201, 202)	12
Science: Biology 101, 102, 103, 104; General Science 221, 222*	14
Psychology 201.....	3
Instructional Media 101	1
	44

Approved Electives.....	18
Total	128

*Or Acceptable Laboratory Science.

DESCRIPTION OF COURSES

APPLIED MUSIC

Courses in applied music include individual and class instruction in voice, piano, or band and orchestral instruments. The student may elect that area of individual instruction best adapted to his/her own individual needs. Class instruction is designed to cover all phases and activities of vocal and instrumental music in order that the student may receive a practical and broad musical experience.

Each student must take a placement examination for the first course attempted in any applied music area, and performance examinations are given at the end of each semester.

Students majoring in music (both the B.S. and B.A. degree) will prepare and present a creditable recital at the completion of study in applied music in the area of specialization.

The major professor reserves the right to advise individual students to suit individual needs. Please see section regarding applied music fees.

INDIVIDUAL INSTRUCTION**Courses for Majors and Minors**

A student who is not a major or minor may take these courses if qualified. Entrance to each of these courses is determined by a placement test prior to the student's registration.

Majors must take at least eight semesters in individual applied music courses. The final two semesters of this work must be at the 400 level and must culminate in a public recital. Students selecting the B. A. degree with a major and minor in music must take the series of individual applied music courses numbered 136 through 437 (4 hours credit each). Students selecting the B.S. degree in education with a major and minor in music or the B. A. degree with a major in music and a minor in a non-music area must take the series of individual applied music courses numbered 134 through 435 (2 hours credit each). However, with the approval of the instructor, students from any music major program of studies may substitute the series of courses numbered 136 through 437 (4 hours credit each) for the particular series of individual applied music courses which is normal for that program of studies. Approval of the instructor will be based on his/her evaluation of the performance ability and potential of the student. In all individual applied music courses, students are required to meet uniform and objective standards of achievement. A brief summary of these standards is given below for each course; more detailed outlines may be obtained from the instructors.

Majors are required to complete six semesters (Music 104, 105, 204, 205, 304, and 305) and minors are required to complete three semesters (Music 104, 105, and 204) of **Concerts and Recitals** (see course description below). Requirements in this area for transfer students are determined by the Head of the Music Department.

104 Through 305. Concerts and Recitals (0 each semester). Applied students must attend seventy-five percent of all Monday student recitals and five other department-sponsored concerts or recitals each semester. The grading system will be S (Satisfactory) or U (Unsatisfactory). Off-campus performances may be substituted for department-sponsored concerts or recitals upon presentation of a program and with the approval of the applied instructor.

113 Through 414 (2 each semester). Applied music, instrumental or vocal, for the secondary applied music area of music majors. These courses are made available so that students may, upon the approval of the instructor and the Head of the Department, study in a secondary area in addition to the primary area.

134 Through 435 (2 each semester). Applied Music, instrumental or vocal, for the primary, applied area of music majors and minors.

136 Through 437 (4 each semester). Applied Music, instrumental or vocal. This course is designed to meet the needs of students wishing to prepare themselves for performance careers. It involves intensive study of the concepts and techniques, music literature, and other facets demanded of today's professional performer. Each week the student will attend a one-hour private lesson; do independent study involving score reading, and record study; and do extensive public performance. In addition, all students will meet weekly for Applied Music Seminar and weekly for repertoire class.

Individual Voice. Training the solo voice with emphasis on vocal technique, song interpretation, and repertoire. Materials are drawn from the rich heritage of song literature from Elizabethan song-writers and early Italian masters to 20th Century composers. Seminars in vocal repertoire and performance help students gain a fuller knowledge of and experience in the art of singing.

Individual Piano. The study of the piano involving scales (major, minor, and chromatic), arpeggios (major, minor, dominant sevenths, and diminished sevenths), transpositions, sight reading, and improvisations of melodies with accompaniment. Repertoire for piano, depending upon level, to be representative of all periods of musical history. Repertoire class is intended to increase the student's knowledge of piano literature and performance techniques.

Individual Violin. Standard etudes, studies, and exercises such as those by Kreutzer, Mazas, Dont, and Rode. Repertoire of all periods such as sonatas by Handel, Beethoven, Mozart, Hindemith, and Prokofief. Concertos by Bach, Bruch, and others. Excerpts from standard orchestra literature.

Individual Viola. Studies and repertoire comparable to that for violin.

Individual Violoncello. Standard etudes, studies, and exercises such as those by Dotzauer, Kummer, Lee, Popper, and Grutzmacher. Repertoire of all periods including sonatas by Vivaldi, Beethoven, Barber; concertos by Haydn, Saint-Saens, Bloch, and others. Excerpts from standard orchestra literature.

Individual String Bass. Studies and repertoire similar to those for violoncello.

Individual Flute. A graded selection of materials will be used to build technique and musicianship including scales and arpeggio studies in various forms and etudes by Garibaldi, Andersen, Berginguier, Moyses, Bozza, and others. Repertoire of all periods will be studied, including works by Bach, Handel, Vivaldi, Chaminade, Hindemith, Poulenc, Debussy, Mozart, and others.

Individual Oboe. Studies by Frerling, Barret, Andraud, and others. Repertoire of all historical periods, including Handel *Sonatas and Concerti Grossi* Nos. 8, 9, and 10; Schumann *Romances*, Op. 94; Marcello *Concerto in C Minor*; Hindemith *Sonata*; Nielsen *Fantasy Pieces*, Op. 2; and others. Excerpts from orchestral and band repertoire.

Individual Clarinet. A graded selection of materials will be used to build technique and musicianship, including scales and arpeggio studies in various forms and etudes by Rose, Thurston, Bozza, Polatschek, Gambaro, Capelle, and others. Repertoire of all periods will be studied including works by Stamitz, Bozza, Marty, Von Weber, Mozart, Brahms, Hindemith, Debussy, and others.

Individual Saxophone. A graded selection of materials will be used to build technique and musicianship, including scales and arpeggio studies in various forms and studies by Teal, Mule, Samie, Berbiquier, Terschak, Soussman, Boehm, Ferling, and others. Repertoire of all periods will be studied, including the Mule and Teal transcriptions and original compositions for the saxophone.

Individual Bassoon. Studies by Weissenborn, Jancourt, Oubradous, and others. Repertoire from all periods including Mozart *Concerto*; transcriptions of Bach *Cello Suites*; Weber *Concerto in F*, Op. 75; Hindemith *Sonata*; Saint-Saens *Sonata*, Op. 168; Dunhill *Lyric Suite*, Op. 196; and others. Excerpts from standard orchestral and band literature.

Individual Trumpet or Cornet. Standard studies such as Arban, St. Jacome, and Schlossberg. Excerpts from standard band and orchestral literature, such as Berlioz, Wagner, Strauss, and others. Solo and ensemble literature such as transcriptions of Purcell and Monteverdi canons and madrigals. Bach fugues, Fitzgerald *Concerto in A Flat*, Sowerby *Sonata for Trumpet and Piano*, Bozza *Badinage*, Ibert *Impromptu*, Haydn *Concerto*, Hindemith *Sonata*.

Individual French Horn. Tone and technic study such as Pares *Daily Exercise*, Pottag *Selected Studies*, Alphonse studies, etc. Solos representative of the repertoire, such as those by Mozart, Cohen, and Busser. Muting and transposition techniques.

Individual Euphonium. Manuscript and published materials similar to those for trombone. Development of valve technique and acquisition of facility in reading both bass and transposing treble clefs through the study of methods and etudes by Arban, Duhem, Charlier, Brasch, and others. Solo repertoire, both original and in transcription, of all periods, including works by J. S. Bach, Vivaldi, Mozart, Barat, Rousseau, Clarke, Bozza, and others. Study of standard band and orchestral excerpts.

Individual Trombone. A comprehensive study of manuscript and published material dealing with breath support and control, embouchure formation and development, tone production, articulation, and intonation. Methods and studies for the development of

musicianship and technique, single and doubler-rotor skills, facility in reading tenor and alto clefs by Arban, Ostrander, Rochut, Blume, Blazhevich, Kopprasch, and others. Solo repertoire, both original and in transcription, of all periods, including works by J. S. Bach, Wagenseil, Saint-Saens, Hindemith, Martin, Bozza, and others. Individual and ensemble study of excerpts from the standard orchestral literature.

Individual Tuba. Manuscript and published materials similar to those for trombone. Development of valve technique and acquisition of facility in reading both transposing bass and treble clefs, thus making available both trombone and trumpet study literature. Studies by Arban, Bell, Rochut, Blazhevich, Kopprasch, and others. Solo repertoire, both original and in transcription, of all periods, including works by J. S. Bach, Vivaldi, Beethoven, Hindemith, Persichetti, Vaughan-Williams, and others. Study of excerpts from the standard orchestral literature.

Individual Percussion. Thorough mastery of Gardner studies; also studies by Buggert, Harr, and Stone. Excerpts from standard band and orchestra literature. Special attention to chamber music involving percussion such as Bartok *Sonata for Two Pianos and Percussion*, Stravinsky *Tale of a Soldier*, Milhaud *Concerto*, Varese *Ionization*, Kohs *Night Watch*, and others. All percussion majors will be expected to develop considerable keyboard skill. The rudimental drumming approach is not emphasized as an ultimate goal.

400. Seminar (0). Senior Seminar is designed to be taken concurrently with the eighth semester of applied music during which the senior recital is presented. Senior Seminar should provide the student with an opportunity for the extensive preparation necessary for the recital such as extra "on-stage" rehearsing with the accompanist, listening to related performances (mostly recordings), working out details of stage presence and arranging the printed program.

(The ability to read simple music is prerequisite for all class applied courses.)

160, 161. Class Voice (1) (1).

170, 171. Class Piano (1) (1).

270, 271. Keyboard Harmony and Accompaniment (1) (1).

280. Class Woodwinds (1).

281. Class Brass (1).

290. Class Strings (1).

291. Class Percussion (1).

BASIC MUSIC

100. Introduction to Music Theory (3). Basic terminology of music theory; properties of tone and rhythm; principles of reading staff notation; bass and treble clefs; notation of rhythm and meter; construction of scales and intervals.

101. Music Theory (2). Music fundamentals, including written skills, keys, scales, intervals, triads, and elementary harmonic movement. The ability to read music is a prerequisite.

102. Music Theory (2). A continuation of Music 101, a prerequisite. Includes knowledge of figured bass, non-harmonic tones and dominant seventh chords.

111. Aural Skills (1). The development of aural skills through singing, dictation, and keyboard harmony.

112. Aural Skills (1). Prerequisite: Music 111. Further development of aural skills.

141. Singing Diction (2). Study and practice of phonetic sounds in singing English and Italian songs and arias. Vocal literature will be performed and evaluated in class.

142. Singing Diction (2). Prerequisite: Music 141. Study and practice of phonetic sounds in singing French and German art songs. Vocal literature will be performed and evaluated in class.

- 201. Music Theory (2).** Prerequisite: Music 102. Developing facility in harmonic skills through the study of voice leading, non-harmonic tones, secondary dominants, and modulation.
- 202. Music Theory (2).** A continuation of Music 201, a prerequisite. Introduction of the Neapolitan and augmented sixth chords, composition, form, and style.
- 203. History of American Jazz (3).** A comprehensive, formalized study of American Jazz Masterpieces from 1900 to the present.
- 211. Aural Skills (1).** Prerequisite: Music 112. Developing facility in sight singing, dictation, and keyboard harmony.
- 212. Aural Skills (1).** Prerequisite: Music 211. A continuation of sight singing, dictation, and keyboard.
- 233. Introduction to Music (3).** Music fundamentals, literature, and appreciation.
- 301. Music Theory (2).** Prerequisite: Music 202. Three class periods a week. Calligraphic studies in counterpoint and studies of the organizing principles of musical composition; their interactions in musical forms, and their functions in different styles.
- 302. Music Theory (2).** Prerequisite: Music 301. Three class periods a week. A continuation of Music 301.
- 311. Music Literature (2).** Music Literature through guided listening, with emphasis on stylistic characteristics.
- 312. Music Literature (2).** Continuation of Music 311.
- 328. Piano Pedagogy (3).** May substitute for the class piano requirement for piano majors. This course is designed to acquaint future piano teachers and music educators with some of the newest and most successful ways of teaching piano to students of pre-college age. Business and professional aspects of private teaching as a vocation, piano literature at all levels of ability, as well as reference materials for the teacher, will be studied.
- 329. Piano Literature (3).** A survey of piano repertoire written for piano. Emphasis is placed on the piano works of major composers in an historical context from the Baroque Era through the Contemporary period.
- 390. Conducting (2).** Prerequisite: Music 102 and 235 or equivalent. Principles of interpretation and techniques of conducting are stressed through detailed study of selected compositions.
- 401. Improvisation and Arranging (1).** Prerequisite: Music 101, 102. A comprehensive study concerning the fundamentals of improvisation and arranging. A stylistic analysis of semi-classical, folk and popular musical art. Psychological and dramatic elements.
- 402. Improvisation and Arranging (1).** Continuation of Music 401.
- 403. Improvisation and Arranging (1).** Continuation of Music 402.
- 404. Music Theory (3).** An introduction to the art of musical composition through analysis and application of contemporary techniques.
- 405. Theory and Composition of American Jazz (3).** Prerequisite: Music 101, 102, 111, 112. A comprehensive formalized study of American Jazz Masterpieces from 1900 to the present. Ear training, harmonic analysis, formal and structural considerations, composition, arranging.
- 406. Sound Systems and Recording Techniques (3).** An examination from a nontechnical standpoint of sound reproduction systems available to consumers of music. Course content includes familiarization with the operation of various systems, explanation of specification, installation and maintenance of systems, and usage of tape recorders.
- 408. Art Song (3).** Prerequisite: Permission of instructor. A survey course examining the major categories of solo vocal literature with a detailed study of selected songs.
- 409. Opera Literature (3).** Prerequisite: Senior standing. The development of opera as a form with a detailed study of selected works.
- 410. Opera Literature (3).** Prerequisite: Senior standing. A continuation of MU 409.

411. Music History and Literature (2). A survey course correlating the development of music literature with the historical development of world culture from the early beginning of music to the Baroque Period.

412. Music History and Literature (2). Prerequisite: Music 411. A continuation of Music 411 from the Baroque Period to the present.

415. Advanced Brass Methods and Literature (3). A survey of brass teaching materials for the public school or college teacher. Methods, etudes, and special studies of each instrument will be examined and discussed. Available records and corollary readings will supplement class discussion. Prerequisite: upper division undergraduate or graduate standing, with permission of instructor.

416. Advanced Brass Methods and Literature (3). A survey of brass teaching materials for the public school or college teacher. Solo literature of each instrument as well as literature for the small brass ensemble of both heterogeneous and homogeneous instrumentation will be examined and discussed. Available recordings and corollary readings will supplement class discussions. Prerequisite: upper division undergraduate or graduate standing, with permission of instructor.

419. Advanced Woodwind Methods and Literature (3). A survey of woodwind teaching materials for the public school or college teacher. Methods, etudes, and special studies of each instrument will be examined and discussed. Available recordings and corollary readings will supplement class discussion. Prerequisite: upper division undergraduate or graduate standing, with permission of instructor.

420. Advanced Woodwind Methods and Literature (3). A survey of woodwind teaching materials for the public school or college teacher. Solo literature of each instrument as well as literature for the small woodwind ensemble of both heterogeneous and homogeneous instrumentation will be examined and discussed. Available recordings and corollary readings will supplement class discussion. Prerequisite: upper division undergraduate or graduate standing, with permission of instructor.

490. Advanced Conducting (2). For music majors. An intensive study of the conductor's role in interpreting musical compositions. Emphasis is placed on the concept and technique involved in communicating musical ideas.

491. Seminar in Composition (3). Prerequisite: Music 202, 212, and permission of instructor. Independent study in the art of composition.

MUSIC EDUCATION

371. Elementary Music Materials and Methods (3). Methods, materials, and problems of teaching general music. Grades N-6.

381. Secondary Music Materials and Methods (3). Methods, materials, and problems of teaching vocal and instrumental music. Grades 7-12.

440. Seminar in Instrumental Music (3). Selection, rehearsal and performance of music literature appropriate for use in instrumental music programs in the public schools. Other techniques for achieving proficient performance and comprehensive musicianship will be considered.

441. Seminar in Choral Music (3). Selection, rehearsal, and performance of music literature appropriate for use in choral music programs in the public schools. Other techniques for achieving proficient performance and comprehensive musicianship will be considered.

442. Measurement and Evaluation in Music (3). Introduction to existing musical aptitude and achievement measures. Evaluation of musical performance. Principles of test construction, formulae, and procedures for computing basic statistical measures.

487. Internship in Grades N-12 (9). Supervised classroom observation and student teaching in vocal and/or instrumental music in grades N-12.

- 117, 118
217, 218
317, 318
417, 418
- A Capella Choir (1 each semester).** Three rehearsals per week and all performances. The primary objective of the a cappella choir is artistic performance of fine choral literature. The literature is selected from all periods and schools of composition. Emphasis is placed upon extensive exploration of choral literature, a valuable asset to the student who plans to teach choral music.
- 151, 152
251, 252
351, 352
451, 452
- Lyric Theatre Workshop (2 each semester).** A performance oriented course including the study and public presentation of scenes and/or complete works for the music theatre.
- 156, 157, 256, 257, 356, 357, 456, 457. **Wind Ensemble (1 each semester.)**
158, 159, 258, 259, 358, 359, 458, 459. **Trombone Ensemble (1 each semester.)**
162, 163, 262, 263, 362, 363, 462, 463. **Chamber Singers (1 each semester.)**
164, 165, 264, 265, 364, 365, 464, 465. **Saxophone Choir (1 each semester.)**
168, 169, 268, 269, 368, 369, 468, 469. **Percussion Ensemble (1 each semester.)**
172, 173, 272, 273, 372, 373, 472, 473. **Brass Choir (1 each semester.)**
174, 175, 274, 275, 374, 375, 474, 475. **Quintet (1 each semester.)**
176, 177, 276, 277, 376, 377, 476, 477. **Clarinet Choir (1 each semester.)**
178, 179, 278, 279, 378, 379, 478, 479. **Jazz Ensemble (1 each semester.)**
182, 183, 282, 283, 382, 383, 482, 483. **Duo: Any instrument (1 each semester.)**
166, 167, 266, 267, 366, 367, 466, 467. **Tuba/Euphonium Ensemble (1 each semester.)**
184, 185, 284, 285, 384, 385, 484, 485. **Quartet: Any instrument (1 each semester.)**
188, 189, 288, 289, 388, 389, 488, 489. **Miscellaneous Ensemble of Five or More (1 each semester.)**
- 192, 193
292, 293
392, 393
492, 493
- Band (1 each semester).** Three rehearsals per week. Playing in the band gives the student an opportunity to become acquainted with standard band literature and offers experience in both the concert and marching bands. Band may be used as an elective in any curriculum.
- 194, 195
294, 295
394, 395
494, 495
- Orchestra (1 each semester).** Two class periods a week. Playing in the orchestra gives the student an opportunity to become acquainted with standard orchestral literature and offers opportunity for expression in public performances. Orchestra may be used as an elective in any curriculum.
- 196, 197
296, 297
396, 397
496, 497
- Chorus (1 each semester).** Two rehearsals a week minimum requirement. Open to all students. The chorus usually performs one concert each semester.
- 198, 199, 298, 299, 398, 399, 498, 499. **Marching Ballerinas (1 each semester.)**

COLLEGE OF SCIENCE AND MATHEMATICS

Reuben B. Boozer: Dean

DEPARTMENT OF BIOLOGY (BY)

Landers: Department Head

Professors: Boozer, Cochis, Landers, Sanford

Associate Professors: Duffey, Mainland, Olander, Salter, Seagle, Summerour

Assistant Professors: Paxton, Rollins, Whetstone

The Department offers a variety of career-oriented programs of study. Students are encouraged to confer with appropriate advisors in order to select a program of study best suited to his/her professional interest. Students entering Teacher Education must confer with the department head concerning the program of study.

Department Concentration:

Option I - General Biology:

A concentration in General Biology consists of 32 hours of approved courses in biology which shall include Biology 221, 222, 241, 242, and 20 additional hours of 300 and 400 level courses. Biology majors are also required to earn credit for CY 105, 106, 107, and 108. In addition, organic chemistry and biochemistry are recommended electives.

Option II - Professional Biology

A concentration in Professional Biology consists of 32 hours of biology which shall include Biology 221, 222, 241, 242, 322, 323, 332, 399 or 400 or 401, 433 or 472 or 473, and 499. Professional Biology students are encouraged to minor in botany or zoology. In addition, credit for CY 105, 106, 107, 108, one year of organic chemistry, biochemistry, one year of mathematics and one year of physics is required.

Option III - Environmental Biology

A concentration in Environmental Biology consists of 32 hours of approved courses which shall include Biology 221, 222, 241, 242, 322, 323, 332, 399 or 400 or 401, 433 or 471, and 499 plus electives and minor approved by the program advisor. In addition, CY 105, 106, 107, 108, one year of organic chemistry, one year of physics, and mathematics 102, 103 and 141 are required.

The curriculum in Environmental Biology is interdepartmental and is designed to train students for employment with various environmental agencies.

Option IV - Marine Biology

A concentration in Marine Biology consists of 32 hours of approved courses which shall include Biology 221, 222, 241, 242, 391, 411, 415, 486, 487 or 488, and 490. The Marine Biology courses are taken at the Marine Environmental Science Consortium Sea Lab located on Dauphin Island, Alabama. Additional Marine Biology coursework during the two summers of residence at the Sea Lab is highly recommended. Marine Biology students are required to earn credit for CY 105, 106, 107, 108 and one year of physics. In addition, organic chemistry and biochemistry are recommended electives.

Option V - Laboratory Biology

A concentration in Laboratory Biology consists of the following approved courses: Biology 221, 222, 241, 242, 310, 323, 399, 401, 402, and 471. In addition, the following courses are required: Chemistry 105, 106, 107, 108, 231, 321, 322, 302; Math 102, 103; Statistics 360; and Computer Science 231. This curriculum in Laboratory Biology fulfills all requirements for Medical Technology as specified by the National Accrediting Association for Clinical Laboratory Science. A minor in either chemistry or zoology is strongly recommended.

Departmental Minors:*Option I - Biology*

A minor in Biology consists of 24 hours of biology which shall include Biology 221, 222, 241, 242, and 12 additional hours of courses numbered 300 or 400. The biology minor may not be taken in conjunction with a biology major.

Option II - Botany

A minor in Botany consists of 24 hours of biology which shall include Biology 221, 222, and 18 hours of approved botany courses at the 300-400 level. The botany minor may be taken in conjunction with any appropriate major.

Option III - Zoology

A minor in Zoology consists of 24 hours of biology which shall include Biology 241, 242 and 18 hours of approved zoology courses at the 300-400 level. The zoology minor may be taken in conjunction with any appropriate major.

All students majoring in Biology are expected to go to the department head for advisor assignments. The 300 or 400 level biology courses may not be duplicated for both major and minor requirements within the department of biology. Only with the consent of the department head may Biology 101 and 103 be substituted for Biology 221 or 222, and Biology 102 and 104 be substituted for Biology 241 or 242.

In general, students in pre-professional curricula should determine and follow specific requirements of the college or university at which their professional degree will be obtained.

DESCRIPTION OF COURSES

101, 102. General Biology (3) (3). Two semesters. Three class periods. The physiological processes such as food synthesis, digestion, respiration, circulation, excretion, movement, irritability, and reproduction are studied, particularly as they relate to the human body; a survey of plant and animal kingdoms.

103. General Biology Laboratory I (1). One two-hour laboratory per week. Should be taken concurrently with Biology 101.

104. General Biology Laboratory II (1). One two-hour laboratory per week. Should be taken concurrently with Biology 102.

215. Scientific Terminology (2). Two class periods a week. Origin and composition of scientific terms and nomenclature. Recommended elective for majors and minors.

221, 222. General Botany (3) (3). Two semesters. Two class periods and one laboratory period a week. The morphology, physiology, taxonomy, and economic importance of representative plants.

241, 242. General Zoology (3) (3). Two semesters. Two class periods and one laboratory period a week. An elementary study of the anatomy, physiology, ecology, taxonomy, and economic importance of representative animals in the more generally known phyla.

261. Human Anatomy (3). Two class periods and one laboratory period a week. Prerequisite or corequisite: Chemistry 105. The first of a two course sequence in the Anatomy and Physiology of the human body. Required of nursing majors; no credit allowed against biology major or minor requirements.

262. Human Physiology (3). Two class periods and one laboratory period a week. Prerequisite: Chemistry 105. Corequisite: Chemistry 164. The second of a two course sequence in the Anatomy and Physiology of the human body. Required of nursing majors; no credit allowed against biology major or minor requirements.

301. Field Zoology (3). Two class periods and one three-hour laboratory period a week, plus field trips. Prerequisite: one year of general biology or one year of general zoology. Collecting and identifying animals and noting ecological conditions.

302. Field Botany (3). Two class periods and one three-hour laboratory period a week, plus field trips. Prerequisite: one year of general biology or one year of general botany. The laboratory work will involve the collection and identification of native plants of Alabama.

303. Biological Conservation (2). Two class periods a week, plus field trips. Prerequisite: Biology 101 or 241, or consent of the instructor. A contemporary and historical study of biological conservation in America.

304. Plant Physiology (3). Two class periods and one laboratory period a week. Prerequisite: one year of general biology or one of general botany and one year of general chemistry. The growth, metabolism, and water relations of seed plants.

310. Hematology (4). Three class periods and one laboratory period a week. Prerequisite: one year of general biology or one year of general zoology. The anatomy and physiology of blood.

312. Human Development (3). Three class periods a week plus scheduled observations. Prerequisite: one year of general biology or its equivalent. A cursory study of the total integrative, interdisciplinary aspects of human development. Required of nursing majors; no credit allowed against biology major or minor requirements.

320. Comparative Vertebrate Anatomy (4). Two class periods and two laboratory periods a week. Prerequisite: one year of general biology or one year of general zoology. The comparative study of vertebrate organ systems supplemented in laboratory with the dissection of selected vertebrates.

321. Human Anatomy and Physiology (4). Three class periods and one laboratory period a week. Prerequisite: one year of general biology or one year of general zoology. The anatomy and physiology of the human body.

322. Genetics (4). Three class periods and one laboratory period a week. Prerequisite: one year of general biology or one year of general botany and one year of general zoology. Important facts, laws, theories, and methods used in the study of genetics.

323. Microbiology (4). Two class periods and two laboratory periods a week. Prerequisite: one year of general biology or one year of general botany and one year of general zoology. General microbiology, including methods of culture and identification of some of the most common types of micro-organisms.

332. Ecology (4). Three class periods and one laboratory period a week, plus field trips. Prerequisite: one year of general biology or one year of general botany and one year of general zoology. The association and distribution of plants and animals in relation to the major environmental factors.

342. General Entomology (4). Three class periods and one laboratory period a week, plus field trips. Prerequisite: one year of general biology or one year of general zoology. Orders and families of insects with emphasis on collection, identification, morphology, and ecology.

360. Pathophysiology (3). Three class periods a week. Prerequisites: Biology 262 and Chemistry 164. The study of physiology of disordered function. Required of nursing majors; no credit allowed against biology major or minor requirements.

391. Environmental Biology (3). Three class periods a week. A contemporary and historical study of ecological relationships of animals, including man.

392. Nature Study (2). Two class periods a week. A study of plants, animals and their environment. To be used only as a general elective; no credit allowed against biology major or minor requirements.

393. Fundamentals of Horticulture (4). Three class periods a week, and one two-hour laboratory period. The culture of common garden and house plants.

394. Physiology of Women (3). To be used only as a general elective. Control systems which operate during adolescence, pregnancy, contraception and the menopause will be discussed. Cancer, venereal disease, alcoholism and other diseases which affect women uniquely will be explained in terms of their effects on female physiology. May not be counted toward major or minor.

All students taking 400 level courses must have junior standing

401. Microtechniques (3). Two class periods and 4 laboratory hours a week. Prerequisite: one year of general biology or one year of general botany and one year of general zoology. The use of the paraffin method and other special techniques in the preparation of plant and animal tissues for microscopical observations. A slide collection is required.

402. Medical Microbiology and Immunology (4). Three class periods and one laboratory period a week. Prerequisite BY 323 and permission of instructor. The immunology of pathogenic bacteria, viruses and other microbial infections of man.

406. Ornithology (3). Two class periods and one laboratory period a week. Prerequisite: one year of general zoology or one year of general biology. The history, classification, anatomy, physiology, ecology and distribution of birds. Laboratory emphasis on field identification and ecology.

407. Mammalogy (3). Two class periods and one laboratory period each week. Prerequisite: One year of general zoology or one year of general biology. Aspects of the biology, ecology, taxonomy, and distribution of mammals of the southern states. Field trips will be taken.

430. Animal Physiology (4). Three class periods and one laboratory period a week. Prerequisite: one year of general biology or one year of general zoology and 320 or 321. A systematic study of the physiology of the organ-systems.

432. Experimental Ecology (3). One class period and one four-hour laboratory period a week. The use of equipment to obtain data on the components of the living and non-living environment.

433. Embryology (4). Two class periods and two laboratory periods a week. Prerequisite: one year of general biology or one year of general botany and one year of general zoology. The principles of vertebrate embryology.

451. Plant Anatomy (3). Two class periods and one laboratory period a week. Prerequisite: one year of general biology or one year of general botany. The structure and comparative anatomy of vascular plants.

452. Plant Taxonomy (3). Two class periods and one four-hour laboratory period a week. Prerequisite: one year of general biology or one year of general botany. The identification and classification of flowering plants. Field trips will be taken.

453. Dendrology (3). One class period and one four-hour laboratory period a week. Prerequisite: one year of general biology or one year of general botany. The identification, taxonomy, ecological characteristics, and distribution of important North American trees. Field trips will be taken.

454. Tropical Biology (3). Prerequisite: permission of the instructor. An extensive field trip to study the flora and fauna of tropical regions.

455. Plant Ecology (3). One class period and one four-hour laboratory period a week. Prerequisite: One year of general biology or one year of general botany and ecology or permission of Department Head. A study of the interrelationships of plants and their environment with emphasis on plant communities of Alabama. Field trips will be taken.

471. Parasitology (4). Three class periods and one laboratory period a week. Prerequisite: one year of general biology or one year of general zoology. An introduction to the parasites of humans and domestic animals.

472. Histology (4). Two class periods and two laboratory periods a week. Prerequisite: one year of general biology or one year of general botany and one year of general zoology. The origin, recognition, and functions of the fundamental and special tissues of the vertebrates.

473. Cytology (4). Three class periods and one laboratory period a week. Prerequisite: one year of biology or one year of general botany and one year of general zoology. Cytological theories, structures, and functions.

474. Techniques in Botany (3). Two class periods and one laboratory period a week. Prerequisite: one year of general biology or one year of general botany. The collection, identification, culture, and preservation of plants for illustration and utilization in the classroom and laboratory. Field trips will be taken and individual collections required.

475. Economic Botany (3). Two class periods and one laboratory period a week. Prerequisite: one year of general biology or one year of general botany. The relation of representative beneficial, noxious, parasitic, and poisonous plants to humans and domestic animals. Field trips will be taken.

476. Invertebrate Zoology (3). Two class periods and one laboratory period a week. Prerequisite: one year of general biology or one year of general zoology. The collection, preservation, identification, and economic aspects of invertebrate animals. Field trips will be taken.

477. Vertebrate Zoology (3). Two class periods and one laboratory period a week. Prerequisite: one year of general biology or one year of general zoology. The natural history, collection, preparation, identification, and economic aspects of vertebrate animals. Field trips will be taken.

478. Endocrinology (3). Three lecture periods a week. Prerequisites: BY 102 and 104 or 242, or 261 and 262. Hormonal control systems and the glands which regulate them will be lecture subjects. New techniques of measuring hormones will be explained; in addition to this, new research which broadens the concept of "hormone" will be discussed.

489. Laboratory Practicum (2). Two laboratory periods per week. Prerequisite: permission of head of department. The use of biology equipment and training aids for juniors and seniors planning careers in high school, college or university teaching.

499. Seminar (1). One class period a week. Prerequisite: permission of the instructor. The discussion and presentation of reports on research in the biological sciences.

MARINE BIOLOGY (MBY)

COURSE DESCRIPTION

The following courses are offered only at the Marine Environmental Sciences Consortium (MESC) Sea Lab located on Dauphin Island, Alabama. The course numbered 100 (Ocean Science) may be taken for general elective credit but will not count toward any major or minor offered by the Biology Department. Jacksonville State University is an active participant in the Consortium which is composed of nineteen colleges and universities within the state. Students interested in earning an option or elective credits in Marine Biology should contact the Marine Biology adviser, Dr. L. G. Sanford, in the Biology Department. Special fees, tuition and frequency of offering for each course are determined by the Sea Lab staff. The number of class periods and laboratories varies according to the course. Information concerning application and registration may be obtained from the Marine Biology advisor.

Occasionally the Sea Lab Faculty, with the consent of the MESC Program Committee, will formally add new courses to the curriculum too late for them to be added to the Jacksonville State University Bulletin for a given year. In this event JSU students may take such courses with the understanding that they are formally approved by Jacksonville State University and will be officially listed in the next University Bulletin published.

100. Ocean Science (4). An introduction to the marine environment. This course is designed to give the beginning college student a full perspective of the major features of the oceanic realm including deep circulation, tides, effects on continents, chemical and geologic history, the physical and chemical nature of seawater, and the relation of oceans to human beings. Lecture, laboratory, and field work are included. No prerequisites.

308. Commercial Marine Fisheries of Alabama (2). An introduction to the commercial marine fisheries of Alabama, including life histories, harvesting technologies, processing and economic values.

309. Marine Biology (4). A general survey of the invertebrates, vertebrates, and marine plants as communities with emphasis on local examples of these principal groups. Student will have an opportunity to examine marshland, estuarine, beach, dune, inlet and neritic habitats, and niches. Lecture, laboratory, and field work will be included. Prerequisites: One year of general biology or one year of general zoology and one year of general botany.

410. Marine Fisheries Science (4). An in-depth study of the principles and methods of fishery biology and their application to conservation. Lecture and laboratory work are included. Prerequisites: one year of general biology or one year of general zoology.

411. Marine Ecology (4). Bioenergetics, community structure, population dynamics, predation, competition, and speciation in marine ecosystems will be studied. Lecture and laboratory work will be included, although considerable time will be spent in field work. Students who have not previously had marine courses may enroll; however, Marine Invertebrate Zoology or Marine Biology would be very helpful. Individual species will be studied as they relate to ecological principles which they exemplify, thus providing both a taxonomic and ecologic background. Prerequisites: one year of general biology or one year of general zoology, one year of general chemistry, one semester of general physics.

412. Coastal Ornithology (4). Study of coastal and pelagic birds with emphasis on ecology, taxonomy, and distribution. This course includes identification, population dynamics, and behavior of coastal birds. Lecture, laboratory, and overnight trips to offshore islands. Prerequisites: one year of general biology or one year of general zoology.

415. Marine Botany (4). A general survey of coastal and marine flora with emphasis on taxonomy, morphology, physiology, ecology, and distribution. Community structure in various ecosystems will be studied. Students will have an opportunity to examine pelagic, marshland, estuarine, beach, sand dune, and inlet niches. Lecture and laboratory work will be included and a collection will be required. Prerequisites: one year of general biology or one year of general botany.

416. Introduction to Oceanography (4). An introduction to biological, chemical, geological, and physical aspects of the sea. Prerequisites: one year of general biology or one year of general zoology and one year of general botany; one year of general chemistry; one semester of physics; and one semester of college algebra.

417. Estuarine Biology (4). This course provides an in-depth exposure to the complexities and values of the estuarine ecosystem. Prerequisites: Advanced standing in biology.

418. The Behavior of Marine Animals (4). This course will explore the basic techniques, underlying principles, and major findings of ethology as they relate to the study of marine organisms. Prerequisites: One year of general biology or one year of general zoology or one year of general psychology.

423. Salt Marsh Ecology (4). A study of the floral and faunal elements of various marine marsh communities. Interaction of physical and biological factors will be emphasized. The course is structured to provide actual field experience in addition to lecture material. Trips will be scheduled to acquaint students with regional examples of marsh types. Prerequisites: Advanced undergraduate standing in biology.

427. Marine Technical Methods I (2). An introduction to instruments and procedures normally utilized aboard a marine research vessel. These include physical, biological, chemical, and geological parameter measurements and sample collection. Basic positioning and communication procedures are included. Prerequisites: Advanced undergraduate standing.

428. Marine Technical Methods II (2). An introduction to the laboratory methodology associated with the usual chemical parameters of nutrient analysis. The laboratory approach will be pursued, shipboard and specific practical skills developed. Prerequisites: advanced undergraduate standing.

429. Marine Technical Methods III (2). Advanced laboratory instrumentation and techniques; individual projects with one of the following: liquid scintillation counting, electrophoresis, atomic absorption spectrophotometry, UV-visible spectrophotometry or fluorometry, or other techniques. Prerequisites: Basic science major, advanced undergraduate standing and permission of instructor. Marine Technical Methods I and II are not prerequisites.

434. Marine Environmental Science (3). Designed for teachers, but open to advanced undergraduate students. Basic principles of ecology, techniques of laboratory and field studies, sources and control measures of pollution included. Prerequisites: advanced undergraduate standing.

435. Coastal Zone Management (2). Review of ecological features and a set of physical management policies for coastal communities and a description of relevant federal and state programs. Prerequisites: Advanced undergraduate standing.

443. Marine Systems Ecology (4). The study of holistic characteristics, structure, function and performance of marine and estuarine ecological systems including interactions with systems of man. Prerequisites: Advanced undergraduate standing in Biology or Environmental Engineering. A Basic or Fortran programming course or experience. Strongly recommended: calculus background, preferably through differential equations.

486. Marine Vertebrate Zoology (4). A study of marine fishes, reptiles and mammals, with an in-depth, comprehensive treatment of their systematics, zoogeography, and ecology. Lectures will encompass subject matter on a nonregional basis. Field and laboratory work will stress the vertebrate fauna of the northern Gulf of Mexico. Most of the course will be devoted to fishes. Students will have an opportunity to assemble a collection of vertebrate species. Prerequisites: one year of general biology or one year of general zoology.

487. Marine Invertebrate Zoology I (4). A comparative study of the major marine invertebrate phyla protozoa through protochordates which will focus on their taxonomy, morphology, physiology, embryology, ecology and phylogentic relationships. Prerequisites: one year of general biology or one year of general zoology.

488. Marine Invertebrate Zoology II (4). An in-depth study of select marine and invertebrate phyla. Focus will be placed on origins, relationships, comparative anatomy, embryology and physiology. Prerequisite: one term of invertebrate zoology.

490. Seminar (1). A discussion of current research, scientific progress, and problems in the marine environment. The course meets twice a week in the evening with equal participation by students, faculty, and visiting scientists. Required of all students, but may be taken for credit or non-credit. No prerequisites.

491. Research on Special Topics (2-6). Students may enroll by special arrangement to do research in any of the subject areas of marine science currently being offered at the Sea Laboratory. Prerequisites: Consent of instructor.

BACHELOR OF SCIENCE DEGREE

Major in Biology and Minor in Chemistry (Suggested Program)

Instructional Media 101	1
English 101, 102, 141, 301, 302	14
History 201, 202	6
Social Science Electives (300+).....	6
Psychology 201.....	3
*Mathematics 102, 103	6
*Foreign Language	12
*Physics 101, 101L, 102, 102L.....	8
Biology 221, 222, 241, 242	12

Biology Electives (300+).....	20
Chemistry 105, 106, 107, 108	10
Chemistry 231, 232, 321.....	12
Chemistry Electives (300+).....	3
Approved Electives (300+)	15
Total	128(a)

(a) Of the total hours, 52 must be numbered 300 or above.

*Recommended electives.

DEPARTMENT OF CHEMISTRY (CY)

B. Cox: Department Head
Professors: Benson, Youngblood
Associate Professors: Cox, Gant, Poore

The Chemistry Department offers in addition to a major and minor in chemistry, a professional program for those students who desire to become professional chemists.

The professional program consists of a minimum of 46 hours in chemistry including 105, 106, 107, 108, 231, 232, 321, 341, 342, 411, 421 and 8 additional approved hours of Chemistry (400+). In addition, the following courses are required: Physics 211, 211L, Computer Science 256, Mathematics 141, 142, 242, 344 and 3 hours approved Mathematics (300+) elective. Students entering Teacher Education must confer with the Department Head concerning the program of study.

A major in Chemistry consists of a minimum of 33 hours in chemistry, including 105, 106, 107, 108, 231, 232, 321, 341, 342, and one of the following: 411, 421, 431, 432, 441, and 461.

A minor in Chemistry consists of a minimum of 25 hours in chemistry, including 105, 106, 107, 108, 231, 232, 321, and one of the following: 311, 322, 340, 341, or 362.

DESCRIPTION OF COURSES

101. Fundamentals of Chemistry (3). Designed to prepare students with weak backgrounds in chemistry and mathematics for Chemistry 105. Fundamentals of chemical problem solving are stressed. Elective credit only, cannot be used to satisfy science requirements.

105, 106. General Chemistry (3) (3). Two semesters. Three class periods. Systematic development of the fundamental principles of chemistry. It is strongly recommended that students with weak backgrounds in chemistry and mathematics should take Chemistry 101 before attempting Chemistry 105.

107. General Chemistry Laboratory I: Basic Techniques's (2). One hour of lecture and two hours of laboratory per week. Basic methods of synthesis, separation and identification of various compounds will be emphasized. Should be taken concurrently with Chemistry 105.

108. General Chemistry Laboratory II: Synthesis and Analysis (2). One hour of lecture and two hours of laboratory per week. Basic methods of synthesis, separation and identification of various compounds will be emphasized. Should be taken concurrently with Chemistry 106.

109. Elementary Organic Chemistry (3). Three class periods. Not open to students for credit toward a major or minor in chemistry. Prerequisite: Chemistry 105 and 107. Principles of Organic Chemistry with emphasis on compounds of biological importance.

110. Elementary Organic Chemistry Laboratory (1). One 2 hour laboratory period per week. Experiments that illustrate the basic principles of Organic Chemistry will be performed. Should be taken concurrently with Chemistry 109.

164. Physiological Chemistry (4). Three class periods and one two-hour laboratory. Prerequisite: Chemistry 105. Not open to students for credit toward a major or minor in chemistry. A brief study of organic chemistry followed by a study of the chemistry and metabolism of proteins, carbohydrates and lipids.

231, 232. Organic Chemistry (4) (4). Two semesters. Three class periods and one three-hour laboratory. Prerequisite: Chemistry 106. The principles of organic chemistry emphasizing reaction mechanisms. Compounds representing principal organic classes are synthesized and systematically identified.

301. The Chemistry of Commercial Products (3). Three class periods. Course is designed for those students whose curriculum does not require any formal training in chemistry but would like to gain some insight into this fascinating science.

The course will concentrate on the chemical content of consumer products and investigate the validity of commercial claims. Items to be investigated include patent medicines, cleansing compounds, processed foods and various other products. Simple procedures for home preparation of some consumer products will also be demonstrated.

May be used as elective credit only. No credit for major or minor.

302. Safety in the Laboratory (3). Three class periods. Designed for the chemistry majors and others who intend to work in a chemically related field. Topics to be covered include Basic Laboratory Precautions, Laboratory Equipment Hazards, Reaction Hazards, Toxic and Corrosive Substances, Physical Hazards, Laboratory Clean-up and Administrative Procedures.

311. Elementary Inorganic Chemistry (3). Three class periods. Prerequisite: Chemistry 106. No credit for chemistry majors. Atomic structure, chemical bonding, periodic relationships and reaction mechanisms.

321. Quantitative Analysis (4). Two class periods and two three-hour laboratory periods. Prerequisite: Chemistry 106. Theory and practice of gravimetric, volumetric, potentiometric and colorimetric methods of analysis.

322. Instrumental Analysis for the Health Professions: (3). Two one-hour lectures and one three-hour lab per week; Prerequisites: Chemistry 231 and 321.

Designed primarily for those students entering medical related fields, but applicable for anyone requiring proficiency in chemical instrumentation, but who has not had the prerequisites for Chemistry 421. Topics covered will include ultraviolet, visible, infrared and fluorescence spectroscopy, gas chromatography, electroanalytical methods, potentiometry atomic absorption-flame emission, turbidity, electrophoresis and tracer analysis.

340. Introductory Physical Chemistry (4). Prerequisite: Chemistry 232, Physics 211 or 102. Three class periods; one 3 hour laboratory per week. A survey course for minors and pre-medical students involving kinetic theory of gases, thermodynamics and thermochemistry, chemistry of solution, phase rule, chemical equilibrium and electrochemistry. Special attention is paid to problems involving biological systems.

341, 342. Physical Chemistry (4) (4). Two semesters. Three class periods and one three-hour laboratory. Prerequisites: Chemistry 232 and 321; Physics 212 and 212L; Mathematics 141 and 142. Structure and properties of matter with emphasis on theoretical principles and their mathematical interpretations.

362, 363. Biochemistry (4) (4). Three class periods and one three-hour laboratory. Prerequisite: Chemistry 232. Fat, carbohydrates, proteins, and nucleic acids with their metabolic routes. Enzymes and the kinetics of enzymatic action.

397, 398. Introduction to Research (1). Laboratory and library work only. Prerequisite: permission of head of department. The student's knowledge is integrated by application to a simple piece of research.

403. Chemical Literature (1). One class period. Prerequisite: Chemistry 232. Use of chemical abstracts, journals, and outstanding references and textbooks.

411. Intermediate Inorganic Chemistry (3). Three class periods. Prerequisite: Chemistry 341. Fundamental topics in inorganic chemistry including atomic structure, chemical bonding, periodic relationships, acid-base theories, non-aqueous solvents, and reaction mechanisms.

412. Intermediate Inorganic Laboratory (1). One three-hour laboratory. Co-requisite: Chemistry 411. The preparation and properties of inorganic compounds.

421. Instrumental Analysis (5). Three class periods and two three-hour laboratories. Prerequisite: Chemistry 342 required, SCS 256 is strongly recommended. The operating principles and techniques involving the use of analytical instruments.

431. Qualitative Organic Analysis (3). One class period and two three-hour laboratories. Prerequisite: Chemistry 421. Qualitative identification and preparation of derivatives of organic compounds.

432. Advanced Organic Chemistry (3). Three class periods. Prerequisite: Chemistry 342. A comprehensive study of the fundamental reactions theories of structure and reaction mechanisms of aliphatic, alicyclic and aromatic compounds.

441. Quantum Chemistry (3). Three class periods. Prerequisite: Chemistry 342 and Mathematics 243. Mathematical treatment of internal bonding in simple compounds.

461. Advanced Biochemistry (4). Three class periods and one three-hour laboratory per week. Prerequisite: Chemistry 342. The study of proteins, carbohydrates, fats and nucleic acids and their metabolic routes with reaction mechanisms, enzymes and the kinetics of enzymatic action.

481, 482. Seminar (1) (1). One class period. Prerequisite: Chemistry 342. Selected topics from current literature.

484, 485, 486. Laboratory Practicum (1) (1) (1). One laboratory period per week. Prerequisite: permission of head of department. The use of laboratory equipment and training aids for juniors and seniors planning careers in high school, college or university teaching.

497, 498, 499. Senior Research (1) (1) (1). Prerequisite: permission of the head of department. The student is assigned a simple piece of fundamental research.

BACHELOR OF SCIENCE DEGREE

Major in Chemistry and an Approved Minor (Suggested Program)

Instructional Media 101	1
English 101, 102, 141, 301, 302	14
History 201, 202	6
Social Science Electives (300+).....	6
Psychology 201.....	3
Mathematics 102, 103	6
Mathematics 141, 142	8
Physics 211, 211L, 212, 212L.....	10
Chemistry 105, 106, 107, 108.....	10
Chemistry 231, 232.....	8
Chemistry 321	4
Chemistry 341, 342.....	8
Chemistry (400+).....	3
Computer Science 256	3
Approved Minor and General Electives.....	38
Total	128(a)

(a) Of the total hours, 52 must be numbered 300 or above.

BACHELOR OF SCIENCE DEGREE**Professional Chemistry Program**

Designed for those students who intend to make chemistry their career.

Chemistry 105, 106, 107, 108.....	10
Chemistry 231, 232.....	8
Chemistry 321.....	4
Chemistry 341, 342.....	8
Chemistry 411.....	3
Chemistry 421.....	5
Approved Chemistry (400+).....	8
Physics 211, 211L, 212, 212L.....	10
Mathematics 141, 142, 243.....	12
Mathematics 344.....	3
Approved Mathematics Elective (300+).....	3
Engineering 254.....	3
Instructional Media 101.....	1
English 101, 102, 141, 301, 302.....	14
History 201, 202.....	6
Social Science Electives (300+).....	6
Psychology 201.....	3
*Foreign Language.....	12
Electives (300+).....	3
Other Electives.....	6
Total.....	<u>128</u>

* Recommended but not required.

**DEPARTMENT OF COMPUTER SCIENCE (SCS)
and ENGINEERING (EG)**

Yeh: Acting Department Head
Associate Professors: White, Yeh
Instructor: Hruska

A major in computer science consists of a minimum of 33 hours of courses in computer science, including 231, 233, 254, 331, 353, 354, 412, and twelve hours of approved courses.

A minor in computer science consists of 24 hours of courses in computer science, including 231, 233, 252 (or 254), 331, 353, and nine hours of approved courses.

DESCRIPTION OF COURSES

231. Introduction to Computer Science (3). Prerequisite: MS 103 or equivalent. Algorithms, programs, and computers. Topics include loops, arrays, and procedures. Structured programming techniques. Programming in a high level of language.

233. Computer Elements and Digital Logic (3). Prerequisite: SCS 231, MS 141. Number systems and codes; Boolean algebra and combinatorial logic; memory elements; digital arithmetic; data storage, transfer, and accessing; input-output facilities; control functions.

250. COBOL Programming (3). Prerequisite: SCS 231 or permission of instructor. A beginning course in COBOL computer language. Problems dealing with business computation and record-keeping are emphasized. Same as BCS 250.

252. Fortran Programming for Non-Science Majors (3). Develops computer programming capability with the Fortran language to permit use of the digital computer as a tool in solving business and mathematical problems. Includes key punching, flow charting, use of coding forms, and programming. Integral nonscheduled laboratory. Same as EG 252.

254. Fortran Programming for Science Majors (3). Prerequisite: MS 103 or equivalent. Digital computer systems, programming of a digital computer, and the solution of mathematical problems on a digital computer. Fortran language is used. Integral nonscheduled laboratory. Same as EG 254.

256. Basic Programming (3). Prerequisite: MS 103 or equivalent. An introduction to digital computer programming using BASIC language. Emphasis on laboratory practice and structured problem-solving techniques. Integral nonscheduled laboratory.

258. PL/I Programming (3). Prerequisite: MS 103 or equivalent. An introduction to digital computer programming using PL/I language. Emphasis on laboratory practice and structured problem-solving techniques. Integral nonscheduled laboratory.

310. Information Systems Analysis and Design (3). Prerequisite: SCS 231. Information systems models, security and privacy of information; design methodology and evaluation of information systems.

331. Data Structures (3). Prerequisite: SCS 233. Storage of arrays. Stacks, queues, and deques. Linked linear lists; trees and multilinked structures. Sorting and searching.

334. Discrete Computational Structures (3). Prerequisite: SCS 231. Introduction to the concepts, terminology and manipulative skills associated with combinatorial structures and logic. Sets and functions, partially ordered sets, trees and graphs, algorithms and induction. Boolean algebra and introduction to symbolic logic.

353. Introduction to Programming Languages (3). Prerequisite: SCS 231 and one high level programming language. Informal syntax and semantics of typical high-level languages. Comparisons of features, capabilities, and limitations.

354. Assembly Language Programming and Machine Organization (3). Prerequisite: SCS 231. Introduction to symbolic assembler language, program linkage, input-output instructions, and machine organization. Assembler language programming.

360. Operating Systems (3). Prerequisite: SCS 331 and 354. Batch processing systems, components, operating characteristics, user services and limitations. Parallel processing and interrupts, multiprogramming and multiprocessing.

361. Digital Computer Organization (3). Prerequisite: SCS 354. An introduction to computer organization and machine language programming. Techniques for representing and manipulating data structures. The implementation in machine language of various feature of high-level languages.

366. Information Storage and Retrieval (3). Prerequisite: SCS 354. Fundamental concepts of information storage and retrieval; discussion of existing computer systems and their shortcomings. Organization of various computer processors, study of computers with single and multiprocessor environments; parallel processing; computer families.

412. Computer-Oriented Numerical Methods (3). Prerequisite: SCS 254, MS 243. Computer-oriented numerical methods for error analysis, evaluation of functions, root finding, interpolation, functional approximation, numerical integration and differentiation, solution of systems of equations, curve fitting. Same as EG 412.

417. Systems Modeling and Simulation (3). Prerequisite: MS 304, Fortran, or PL/I or equivalent. Model construction, validation, result analysis and documentation. The design and structure of discrete-event simulation. Statistical data processing; optimizing techniques; digital simulation of continuous systems.

432. Computer Graphics (3). Prerequisite: SCS 331 and 354. Hardware and software components of computer graphic systems, input representation, and transformation of graphic information. Two-dimensional and three-dimensional transformations; perspective, hidden-line algorithms, shading. Interactive graphics. Survey of applications.

441. Computer Systems Programming (3). Prerequisite: SCS 354. Usage of symbolic assembler language and macro assembler programming; introduction to assemblers, compilers, data structures, operating systems, and machine architecture.

442. Compiler Construction (3). Prerequisite: SCS 441. Logical structure of compilers; grammars and languages, top-down and bottom-up parsing methods; intermediate forms, storage allocation and code generation.

SCS 488, 489 Laboratory Practicum (1) (1). Four hours of laboratory each week. Prerequisite: Permission of head of department. Students learn to utilize various computer hardwares and softwares while assisting a computer science faculty member. For juniors and seniors. May be counted as computer science electives.

498. Independent Advanced Programming Problems (3). Laboratory: 6 Hours. Prerequisite: Senior status and approval of department head. Involves programming applications and projects intended to develop programming skills and confidence beyond the classroom level. Projects are jointly selected by the student and a Computer Science instructor. May be taken as a Computer Science elective.

BACHELOR OF SCIENCE DEGREE
Computer Science Major/Approved Minor
(Suggested Program)

Instructional Media 101.....	1
English 101, 102, 141, 201, 202, or 301, 302	14
History 201, 202	6
Social Science Elective (Economics, Geography, Political Science, Sociology)	6
Psychology 201.....	3
Physics 101, 101L, 102, 102L, (or Physics 211, 211L, 212, 212L)	8
Engineering 112	2
Mathematics 141, 142, 243, 304, 352.....	18
Approved Electives, Minor.....	21-24
General Electives.....	13-16
Computer Science 231, 233, 254, 331, 353, 354, 412	21
Computer Science Approved Electives	12
Total	128(a)

a) Of the total hours, 52 must be numbered 300 or above.

b) If the same course is required for both the major and minor fields, an additional course in the major or minor field must be taken. See the department head for approval.

BACHELOR OF SCIENCE DEGREE**MAJOR COMPUTER SCIENCE - MINOR ENGINEERING**
(Suggested Program)

Instructional Media 101	1
English 101, 102, 141, 201, 202, or 301, 302	14
History 201, 202	6
Social Science Electives (Economics, Political Science, Geography, Sociology)	6
Psychology 201	3
Chemistry 105, 107, 106, 108	10
Physics 211, 211L, 212, 212L	10
Mathematics 141, 142, 243, 304, 344, 352	21
Engineering 112, 121, 122, 201, 202, 343, 361, 373	22
Engineering and General Electives	2
Computer Science 231, 233, 254, 331, 353, 354, 412	21
Computer Science Approved Electives	12
Total	128(a)

- Of the total hours, 52 must be numbered 300 or above.
- If the same course is required for both the major and minor fields, an additional course in the major or minor field must be taken. See the department head for approval.

ENGINEERING (EG)

The objectives of the Engineering Program are (1) to offer a two-year pre-engineering curriculum which will permit the majority of students to transfer with junior standing to most undergraduate engineering programs at other schools and (2) to offer a minor in basic engineering for students who plan to work in the technical, vocational, or junior college fields.

High School students preparing for admission to the basic engineering program are strongly urged to perfect their background in mathematics and the physical sciences. Algebra, plane geometry, trigonometry, solid geometry, general science, physics, chemistry, and any advanced mathematics courses available are all desirable acquisitions.

A minor in engineering requires the following engineering courses: 112, 121, 122, 201, 202, 254, 343, 361, and 373. In addition, a minor in engineering must present credit for chemistry 105, 106, 107, 108; Mathematics 141, 142, 243, 344; Physics 211, 212, 211L, 212L.

Course concentrations in engineering can be grouped as follows:

General Engineering: 112, 121, 122, 201, 202, 251, 252, 254, 320, 412.

Mechanical Engineering: 234, 271, 343, 361, 362, 373, 375, 391, 401, 441.

Electrical Engineering: 226, 233, 327, 328, 331, 332, 333.

DESCRIPTION OF COURSES

112. Engineering Methods (2). 1 hour lecture, 2 hour laboratory each week. Prerequisite or concurrently: MS 103. The use of applied mathematics in solving elementary scientific and engineering problems. Topics include basic mathematical analysis, electronic calculator, unit systems, metrication, engineering statics.

121. Engineering Graphics I (2). Three two-hour laboratory periods each week. Prerequisite: Plane geometry or evidence of previous instruction in mechanical drawing. Instruction and practice in the graphical presentation of objects, using both mechanical

and free hand techniques, with emphasis on the principles involved. Topics include isometric and oblique views, multiview projection on principal and auxiliary planes, dimensioning, fits and tolerances, screw threads and fasteners, detail and assembly working drawings.

122. Engineering Graphics II (2). Three two-hour laboratory periods each week. Prerequisite: Engineering 121. Orthographic projection; point, line, and plane problems; revolution; curved and warped surfaces; intersections of surfaces; locus of a line; vectors; geology, mining, and topography problems.

201. Applied Mechanics-Statics (3). Prerequisite: Engineering 112, Physics 211, and prerequisite or concurrently: MS 142. Analysis of the principles of mechanics and their engineering applications. Forces; moments and couples; resultants of force systems; equilibrium; friction; centroids; moments of inertia.

202. Applied Mechanics-Dynamics (3). Prerequisite: Engineering 201 and MS 142. Absolute and relative motion; force, mass, and acceleration; work and energy; impulse and momentum; mechanical vibrations.

226. Electrical Circuits Analysis I (3). Prerequisite: PHS 211, MS 243. Electric and magnetic circuit concepts; transient and steady-state solutions of simple circuits. Phasor analysis of AC circuits and network theorems.

233. Computer Elements and Digital Logic (3). (Same as SCS 233). Prerequisite: MS 141. Number systems and codes; Boolean algebra and combinatorial logic; memory elements; digital arithmetic; data storage, transfer, and accessing; input-output facilities; control functions.

234. Kinematics of Machinery (2). One lecture and three laboratory periods each week. Prerequisite: EG 121 and MS 141. Kinematics of Machinery. Displacement, velocity, and acceleration in linkages; instant centers; cams; gearing and gear trains; rolling contact.

251. Engineering Surveying (3). Prerequisite: EG 112. Two hours of lecture and three hours of laboratory each week. The use of tapes, levels, transits and surveying instruments including the theodolite will be studied and applied to problems involving position, area, volume, grade, mapping, distance, elevation, analysis of error, and land surveying.

252 or SCS 252. Fortran Programming for Non-Science Majors (3). Develops computer programming capability with the Fortran language to permit use of the digital computer as a tool in solving business and mathematical problems. Includes key punching, flow charting, the use of coding forms, and programming of a digital computer in Fortran language. Integral nonscheduled laboratory.

254 or SCS 254. Fortran Programming (3). Prerequisite: MS 103 or equivalent. Digital computer systems, programming of a digital computer, and the solution of mathematical problems on a digital computer. Fortran language is used. Integral nonscheduled laboratory.

271. Engineering Materials Science (3). Prerequisite: Chemistry 105, Physics 211. Theories and structures of crystalline and amorphous materials. Basic concepts of phase transformations and phase equilibrium. Mechanical, electrical, magnetic, and thermal properties of materials.

320. Engineering Economy (3). Prerequisite: MS 102 or equivalent. Annual cost, present worth, rate of return, and profit-cost methods of determining prospective differences among alternatives; depreciation, tax and cost analysis, and replacement and retirement analysis.

327. Electrical Circuits Analysis II (3). Prerequisite: EG 226, Corequisite: EG 328. Sinusoidal forcing functions, steady-state response, polyphase circuits, transfer function, resonance, magnetically coupled circuits, network topology, and analysis, matrix formulation of network equations.

328. Electrical Circuits Laboratory (1). Three laboratory hours per week. Corequisite: EG 327. Experiments related to electrical circuits. Application and verification of the principles in electrical circuits.

331. Electronics I (3). Prerequisite: EG 226. Corequisite: EG 333. Introduction to solid state electronics. Diodes, transistors biasing and stabilization, low and high frequency models, large-signal amplifiers, field-effect transistors, vacuum tubes.

Physics 331 and 331L. Introduction to Electronics (3) and Electronics Laboratory (1). (May be counted as courses in the Department of Engineering.) For description, see Physics 331 and 331L.

332. Electronics II (3). Prerequisite: EG 331. Pulse and switching circuits, logic families, multivibrators, sweep circuits, high frequency effects.

333. Electronic Laboratory (1). Corequisite: EG 331. Three laboratory hours per week. Experiments relative to electronic circuits.

343. Strength of Materials (4). Prerequisites: Engineering 201 and Mathematics 142. Stress-strain relationships; behavior of materials in tension, compression and shear; column formulae; combined stress computations; theorem of three moments; composite structural members.

361. Thermodynamics I (3). Prerequisite: MS 243 and Physics 211. Heat and work; thermodynamic system and equations of state; the zeroth, first, and second laws of thermodynamics; change of phase; the combined first and second laws; irreversibility and availability of energy; mixtures of ideal gases; psychrometry.

362. Thermodynamics II (3). Prerequisite: EG 361. Thermodynamic cycle analysis; Maxwell relations and thermodynamic relations, chemical reactions and combustion; thermodynamic of fluid flow; kinetic theory.

373. Fluid Mechanics (3). Prerequisite: MS 142 and Physics 211. Fluid statics; the conservation equations and their applications; dimensional analysis and similitude; flow in closed and open conduits; one-dimensional compressible flow.

375. Fluid and Thermal Laboratory (1). Three laboratory hours per week. Laboratory in fluid mechanics, thermodynamics, and related area. Typical experiments are: flows in pipes and channels, flow control devices, gas laws, compressible flow, engine performance.

391. Solar Heating and Cooling (3). Junior standing or consent of instructor. The nature of solar energy; fundamentals of heat transfer; methods of solar energy collection; solar heating and cooling of buildings; method of testing bases on thermal performance; economic analysis.

401. Heat Transfer Theory (3). Prerequisite: MS 243, Physics 212. Fundamental principles of heat transfer by steady and unsteady conduction; free and forced convection; boiling and condensation; thermal and luminous radiation.

412 or SCS 412. Computer-Oriented Numerical Methods (3). Prerequisite: EG 254, MS 243. Computer-oriented numerical methods for error analysis, evaluation of functions, root finding, interpolation, functional approximation, numerical integration and differentiation, solution of systems of equations, curve fitting.

441. Transport Phenomena (3). Prerequisite: MS 344, Physics 212. Mathematical and physical analysis of mass, momentum, and energy transports in steady and transient fluid motions, in ideal and real substances.

PRE-ENGINEERING

English 101, 102.....	6
History 201, 202, (or 101, 102)	6
Economics 220	3
Chemistry 105, 106, 107, 108.....	10
Mathematics 141, 142, 243, 344	15
Physics 211, 211L, 212, 212L.....	10
Engineering 112, 121, 201, 202, 226, 254.....	16
Total	66

DEPARTMENT OF GENERAL SCIENCE (GS)

Studdard: Acting Department Head
 Associate Professors: Studdard, Vinson
 Assistant Professors: McSpadden, Smith
 Instructor: Angelette

BACHELOR OF SCIENCE IN EDUCATION

General Science Composite
 (Grades 4-8)

General Studies

English 101, 102, 141, 201 or 202, and 301 or 302	14
Instructional Media 101	1
Economics 220 or 221 or 224	3
History 101 and 102 or 201 and 202	6
Political Science 201 or 202 or Psychology 201 or Sociology 221 or 310 or Geography 241	3
Biology 241 or 242 or 221 or 222	3
General Science 301.....	4
Mathematics 101 or 102 or 103 or 104 or 133 or 141 or 142	3
Humanities Elective, a course in Art, Music, or Drama.....	1
Science Electives from the teaching field	8
Physical Education 101.....	3
Electives from the teaching field	9
	61

Professional Studies

Special Education 300	3
Educational Psychology 431	3
Education 380	3
Education 383	3
Education 382	3
Education 451	3
Education 483	3
Educational Psychology 442	3
Education 431**	3
Educational Psychology 332**	3
Education 485**	9
	39

General Science Composite Teaching Field

Biology 241 or 242 or 221 or 222	9
Chemistry 105, 106, 107, 108	10
Earth and Space: GS 301, 302 and 304.....	10
Physics 101, 102, 101L, 102L.....	8
Physics Electives (choose from: PHS 201 or 211, 211L or 327 or 339).....	1-4
Total	38*

(*) Degree candidates must earn a minimum of 128 semester hours.

(**) Denotes the Internship Semester courses.

BACHELOR OF SCIENCE IN EDUCATION
General Science Composite
(Grades 7-12)

General Studies

English 101, 102, 141, 201 or 202 and 301 or 302.....	14
Instructional Media 101.....	1
Economics 220 or 221 or 224.....	3
History 101 and 102 or 201 and 202.....	6
Political Science 201 or 202 or Psychology 201 or Sociology 221 or 310 or Geography 241	3
Biology 241 or 242 or 221 or 222.....	6
General Science 301.....	4
Mathematics 101 or 102 or 103 or 104 or 133 or 141 or 142.....	3
Humanities Elective, a course in Art, Music, or Drama	1
Science Electives from the teaching field.....	8
Physical Education 101	3
Electives from the teaching field.....	9
	61

Professional Studies

Special Education 300.....	3
Educational Psychology 332*	3
Educational Psychology 431.....	3
Education 431*	3
Education 382.....	3
Education 484.....	3
Education 383.....	3
Educational Psychology 442.....	3
Education 486*	9
	33

General Science Composite Teaching Field

Biology 241, 242, 221, 222	12-14
Biology Electives (By advisement only) ²	12-18 ³
Chemistry 105, 106, 107, 108, 311, 321, 484.....	12-18 ³
Physics 201, 202 or 211, 212.....	8
Physics Electives (211L, 212L, 301, 301L, 327, 331, 331L and 342)	4-10 ³
Earth and Space Science: GY 110, 111; GS 301, 302; GL 241	12-18 ³
Total.....	66**

¹Biology 101, 103 may be substituted for BY 241 or 242, and BY 102, 104 may be substituted for BY 221 or 222.

²Biology electives (12-18 hrs.) must be selected from a given list. See the biology department head.

³Must have a minimum of 12 hours in each science area and 18 hours in one area; 6 hours of the 18 hours must be 300 level or above.

(*) Denotes the Internship Semester courses.

(**) Please note that 21 semester hours of the General Science Composite is included in the General Studies requirements.

A person that wishes to add a General Science Composite endorsement to their present Class B - Secondary certificate should contact Mr. R. Eugene Jones, Director of Teacher Certification, College of Education, Ramona Wood Hall.

DESCRIPTION OF COURSES

221, 222. General Science (3) (3). Two semesters. Two lecture periods and one laboratory period or field trip and conference per week. A survey course in the natural science which is required of freshmen and sophomores in certain curricula and must be scheduled within the first two years.

301. Elements of Astronomy (4). Prerequisites: General Science 221 and 222 or Physics 101, 101L, 102, 102L. Three lecture periods per week and one night laboratory period per week. An introductory study of the solar system; time, space and gravitation; the sun and the stars; meteors, comets, and meteorites; galaxies and cosmology. Fall term.

302. Introductory Stellar Astronomy (2). One lecture hour and one laboratory period of four hours per week. A course to familiarize the student with the telescope and auxiliary equipment used in the measuring of the geometric and photometric properties of Stars. Topics introduced are stellar spectras, intrinsic stellar properties, multiple star systems, variable stars, star clusters, and interstellar matter. Spring term.

321, 322. College Physical Science (3) (3). Prerequisite: Junior Standing. Two lecture periods and one laboratory-demonstration period per week. An advanced survey course in natural physical science investigating topics in geology, astronomy, chemistry, and physics. This course may be substituted for GS 221 and 222 but credit may not be received for both.

DEPARTMENT OF GEOGRAPHY (GY) AND GEOLOGY (GL)

Johnson: Acting Department Head

Associate Professors: Baucom, Johnson, Klimasewski

Geography serves as a bridge between the physical and social sciences. Emphasis is on the nature and distribution of environmental systems, human activities, relations between them, and their variation from place to place. Geography's uniqueness is derived, not from the subject matter studied, rather from the discipline's technical and methodological approach to the analysis of phenomena.

Students may choose to study numerous topics from the geographic perspective as part of a Liberal Arts education, or may develop programs leading to a variety of career opportunities. Students wishing to develop a career orientation in Geography are urged to meet with the department head regarding assignment to an academic advisor. Courses in Geography have been grouped into suggested concentrations to facilitate choice of electives and to make career opportunities more apparent. The following guide may be used in matching courses to career opportunities:

career	concentrations of primary importance	supportive concentrations
Education	B & C	A
Cartographer	D	A & C
Urban/Regional Planner	C & D	A
Defense/Intelligence Analyst	D	A & B
Environmental Analyst	A & D	
Site Location Analyst	C & D	
Graduate School	D	A & B & C

CONCENTRATIONS

- A = Environmental Systems Analysis**
B = Cultural-Area Studies
C = Urban and Regional Planning
D = Techniques of Spatial Analysis

GEOGRAPHY MAJOR. Requirements for a major in geography may be met with a minimum of thirty-one (31) hours in geography, including the following core courses:

- GY 110 - Physical Geography
 GY 200 - Cartography I
 GY 202 - History of Geographic Thought
 GY 302 - Remote Sensing
 One regional course

In addition to the above, the student must choose fifteen (15) hours of electives including a minimum of twelve (12) hours in courses numbered 300 or above, of which six hours must be in 400 level courses.

GEOGRAPHY MINOR. A minor in geography consists of nineteen (19) hours of geography, including GY 110 and GY 220. A minimum of six hours must be in courses numbered 300 or above. Minors may wish to limit their choice of electives to courses from one or two concentrations, thus creating an emphasis complementary to their major. For example, ROTC students might emphasize concentration D; Biology majors, concentrations A and/or D; Political Science majors, concentration C; Education majors, concentration B.

ENVIRONMENTAL STUDIES GEOGRAPHY MINOR: Students concentrating in Environmental Studies (Biology) may complete a minor in Geography by completing the following courses: GY 100, GY 110, GY 111, GY 302, GY 344 and GY 460. The minor consists of 20 hours of coursework.

Geography's bridging role between the physical and social sciences is dramatized by the fact that some courses in the program may be taken to satisfy laboratory science requirements while others may be taken as social science electives. Only courses from concentrations B and C and GY 100 listed in concentration D are considered social science. GY 110 and GY 111 may be used to satisfy one half of the 12/16 hour university science/mathematics requirement.

DESCRIPTION OF COURSES

Geography (GY)

A. Environmental Systems Analysis Concentration

110. Physical Geography (4). Three hours of lecture, two hours of lab. Study of the nature and interaction of physical systems at the earth surface, including analysis of the earth's energy and moisture budgets as they relate to hydrology, climate, soils, and vegetation. Laboratory emphasis is on systems analysis through the use of classification problems, topographic and thematic maps, and models.

111. Introductory Geomorphology (4). Three hours of lecture, two hours of lab. The study of the processes of landform development. Analysis of landforms and interpretation of the physical landscape using topographic maps, aerial and satellite imagery, and topographic models. Suggested background: GY 100, GY 110.

310. Geography of Land Surfaces (3). A study of the characteristics, distributions, and interactions of the physical elements of the land surfaces—topography, water, soils, and vegetation. Suggested background: GY 110, GY 111.

329. Coastal Climatology (3). An introduction to the physical factors which result in climatic conditions of coastal regions, with emphasis on the northern Gulf of Mexico. This course is offered only at the Marine Environmental Sciences Consortium (MESCC) Sea Lab on Dauphin Island, Alabama. Suggested background: GY 110.

331. Climate and Man (3). A study of climates, how they are classified, and their effect upon the human being's activity. Suggested background: GY 110.

333. Meteorology (3). The study of weather types and their causes, weather instrumentation, the construction and interpretation of weather maps, analog and synoptic forecasting, and weather modification. Suggested background: GY 110 and the equivalent of high school physics.

344. Environmental Conservation (3). An evaluation of those resources upon which we depend for our lives and our lifestyles. Emphasis is on the nature, availability, and distribution of these resources, and problems associated with obtaining, using, and disposing of them. Students learn to see connections between their own attitudes, actions and lifestyles and various environmental problems.

479. Proseminar in Physical Geography (3). The seminar will emphasize selected topics in physical geography. Prerequisite: consent of instructor. Suggested background: 4 courses from concentration A.

480, 481. Laboratory Practicum in Physical Geography (1) (1). Four hours of laboratory per week. Students learn to utilize various pieces of equipment and demonstration techniques while assisting an instructor to prepare and conduct lab sessions. Prerequisite: permission of department head.

*B. Cultural-Area Studies Concentration**

120. Human Geography (3). An introduction to world regional geography.

220. Cultural Geography (3). The study of social and cultural patterns, emphasizing the spatial arrangement of man's cultural economic, social, political, and population structures.

387, 388, 389. Study Tour (3) (3) (3). Two to four week excursions to selected regions of the United States. Students gain first-hand knowledge of those physical and cultural factors which create regional character. Background reading, field lectures, examinations, and a trip log are required under the direction of a geography staff person. Information on fees, transportation and other trip expenses will be available through the instructor. Permission of the instructor is required. NOTE: A student may take all three tours, however, only one tour (three hours) may be counted toward a major or minor in Geography. Suggested background: GY 110, GY 111, GY 100, GY 220.

Regional studies focus upon those things which give character to a region and the interrelations that exist among the various physical and cultural elements of an area. Suggested background: GY 110, GY 120 or GY 220. Study of the following regions is offered in the department:

390. Geography of North America (3).

391. Geography of Latin America (3).

392. Geography of Western Europe (3).

393. Geography of the Near East (3).

394. Geography of the Far East (3).

395. Geography of Africa (3).

396. Geography of the Soviet Bloc (3).

397. Geography of the South (3).

420. Historical Geography of the United States (3). A study of the evolution of the cultural landscapes of the U.S. and the historical antecedents to urban and rural regional development. Suggested background: GY 220 and HY 201, HY 202.

*All courses from this concentration are considered social science

489. Proseminar in Human Geography (3). The seminar will emphasize selected topics in human geography. Prerequisite: consent of instructor. Suggested background: 4 courses from concentration B.

*C. Urban and Regional Planning Concentration**

241. Economic Geography (3). A survey of the factors which influence the location of economic activities with emphasis on the application of various elementary techniques designed to determine the relative economic potential of any place.

320. Political Geography (3). A study concerning the spatial aspects of political phenomena from the international to the local scale. Suggested background: GY 220.

330. Quality of Life (3). This course compares personal and collective perceptions of the quality of life in selected cities and regions of the United States. It investigates significant components of the quality of life, particularly concepts of place and space. Suggested background: GY 220.

338. Transportation Geography (3). The study of the causes of interaction between places and the resulting transportation network structure. Analysis of the propensity for the movement of goods and people and the application of techniques to measure the efficiency of movement. Suggested Background: GY 241.

339. Historical Geography of Regional Development (3). Primary focus is on factors that generated regional development during various periods in history. The course emphasizes how environmental influences, spatial factors, and area character influenced the growth or decline of cities and rural areas. Suggested background: GY 220, HY 201, 202.

341. Problems in Location and Transportation (3). Advanced analysis of the problems confronting industrial firms and retail/service establishments in making locational decisions. The study of associated problems in the movement of goods and people. Emphasis will be placed upon applied techniques of site evaluation and selection. Prerequisite: GY 241.

342. Urban Geography (3). The study of urban places and their problems, with emphasis upon urban planning. Suggested background: GY 220.

401, 402. Practicum in Geography (3) (3). This course is an opportunity for students to gain on-the-job experience with a firm or a government agency in the Northeast Alabama area. Prerequisite: consent of instructor. Suggested Background: Junior or Senior standing, with emphasis in concentrations C and D.

441. Regional Planning and Economic Development (3). The integration of urban study with the larger context of regional planning. Emphasis will be upon techniques of analyzing regional economic development. Suggested background: GY 342, GY 339.

442, 443. Urban Seminar (3) (3). Advanced studies of urban areas. Examples of topics to which each seminar may be devoted include - relationships between urban land use and the physical environment, spatial arrangement and interaction of people and institution in urban areas, character of American cities, spatial impact of political and social action in the urban setting. Prerequisite: consent of instructor. Suggested background: Emphasis in concentration C or Real Estate including GY 342.

D. Techniques of Spatial Analysis Concentration

100. Map and Air Photo Usage (3).** An introduction to basic map reading and air photo interpretation skills. Students are shown how maps and air photos can help them with travel, land purchases, recreational activities. Emphasis is on how to obtain and use these materials.

*All Courses from this concentration are considered social science.

**Social Science Course.

200. Cartography I (3). Two hours of lecture, two hours of lab. An introduction to the basic tools and techniques of map making. Emphasis on preparation of thematic maps. Suggested background: GY 100.

202. History of Geographic Thought (3). The development of geographic theory and methodology, with stress upon its relevance to current work in the discipline. Suggested background: GY 110 or GY 220.

300. Tools of the Geographer (3). Introduction to the scientific method, logical and mathematical tools, and the use of geographic methods. Suggested background: EH 101, EH 102, GY 110 and GY 220.

302. Remote Sensing (3). Introduction to the essential elements of remote sensing: the electromagnetic spectrum, imagery sensors, and sensory vehicles. Emphasis will be placed upon the utility of different forms of imagery in regional and environmental land use planning. Suggested background: GY 100.

304. Quantitative Spatial Analysis (3). A survey of the basic quantitative techniques used when analyzing geographic problems, including potential modeling, nearest-neighbor analysis, graph theory, spatial correlations, trend surface analysis and factor ecology. Suggested background: This course is intended primarily for geography majors, and is also open to students who have taken several geography courses and courses in basic statistical methods.

403, 404, 405. Independent Study in Geography (1) (1) (1). This course gives the upper division student an opportunity to pursue research under the direction of a member of the departmental faculty. Consent of the instructor is required.

407. Computer Mapping (3). The application of computer techniques to the problem of displaying spatial data. Emphasis will be on problem-solving using mapping programs with various types of output devices, and also an introduction to graphic programming. Prerequisite: SCS 254 or BCS 252.

408. Cartography II (3). Two hours lecture, two hours lab. Advanced instruction in map design plus a survey of modern methods of map production including scribing, inking, photography. Prerequisite: GY 200.

409. Photogrammetry (3). Two hours lecture, two hours lab. The science of making precise measurements of surface features imaged in air photos. Emphasis is placed upon production of topographic maps. Prerequisite: consent of instructor. Suggested background: GY 302, or EG 251.

410. Terrain Analysis (3). A study of the methods used in inventorying and classifying land surfaces for man's use. Suggested background: GY 110, GY 111 and GY 100.

460. Field Methods in Applied Geography (3). One hour lecture, four hours lab. An introduction to methods of collecting and mapping field data from physical and cultural environments. Includes instruction in the use of simple survey equipment. Prerequisite: Consent of instructor. Suggested background: Four courses from Concentration D.

482, 483. Laboratory Practicum in Geographic Techniques (1) (1). Four hours of laboratory each week. Students learn to utilize various pieces of equipment while assisting an instructor in cartography, photogrammetry, or other techniques courses. Prerequisite: permission of department head.

GEOLOGY MINOR. A minor in Geology consists of twenty-five (25) hours of geology courses including GL 241 and GL 242. A geology minor may be taken in conjunction with a geography major.

Geology 241/242 may be used to satisfy one half of the 12/16 hour university science/mathematics requirement.

DESCRIPTION OF COURSES

Geology (GL)

241. Physical Geology (4). Three hours of lecture, two hours of lab. Modern concepts of the earth's physical composition, including minerals and rocks, topography, crustal structure, constructive and destructive forces, earth origin, planetology, and methods of age determination. Laboratory includes the study and identification of minerals and rocks, the interpretation of topographic and geologic maps and aerial photographs. A field trip is required. Suggested background: GY 100, high school chemistry and physics.

242. Historical Geology (4). Three hours of lecture, two hours of lab. Historical development of the earth including mountain building, plate tectonics, marine inundations, formation of mineral deposits and fuels, and reconstruction of fossil record of plant and animal development. Laboratory includes field trips, use of geologic maps in problem solving, and study of fossils. Suggested background: GL 241.

340. Mineralogy (4). Two hours of lecture, four hours of lab. Study of characteristics origin, occurrence, association, and uses of minerals. Laboratory includes techniques of crystallography and mineral identification. Prerequisite: GL 241, GL 242.

342. Lithology (4). Two hours of lecture, four hours of lab. Study of the origin, variation, field occurrence and classification of important igneous, sedimentary and metamorphic rock types. Laboratory devoted to identification of in hand specimens. Prerequisite: GL 241, GL 242, GL 340.

350. Stratigraphy (3). Two hours of lecture, two hours of lab. Study of stratigraphic principles (dealing with physical and biological environments) and the materials and processes of sedimentation. Laboratory includes use of stratigraphic techniques to study sedimentary rock structure. Prerequisite: GL 241, GL 242, GL 342.

360. Structural Geology (3). Two hours of lecture, two hours of lab. Effects and mechanics of deformation of the earth's crust including the development of folds, faults, joints and other tectonic features. Laboratory includes field trips, studies of stereographic projections and structural geologic maps, and structural problems. Prerequisite: GL 241, GL 242.

370. Introduction to Field Geology (3). One hour of lecture, four hours of lab. Field interpretation of geologic features; principles and techniques of geologic mapping; interpretation of geologic maps and diagrams. Prerequisite: GL 241, GL 242 and equivalence of high school trigonometry.

380. Applied Geology (3). Two hours of lecture, two hours of lab. Principles of geology as applied to civil engineering, petroleum exploration, natural hazards, and land use planning. Prerequisite: GL 241, GL 242.

390. Marine Geology (4). A study of the geology of the ocean basins, with special emphasis on the continental shelves, their sediments and the sedimentary processes at work there. Prerequisites: GL 241 or consent of instructor. This course is offered only at the Marine Environmental Sciences Consortium Sea Lab at Dauphin Island.

450. Recent Marine Sedimentation (4). Study of properties of marine sediments, coastal sedimentary environments, continental margin sediments, reef and associated sediments, deep sea sediments and marine geophysics. Emphasis in the field on the erosional and depositional effects of eaves and currents. Prerequisites: GL 390, BY 416, or consent of instructor. This course is offered only at the Marine Environmental Sciences Consortium Sea Lab at Dauphin Island.

DEPARTMENT OF MATHEMATICS (MS)

Horsfield: Department Head**Professor: Horsfield****Associate Professors: Abercrombie, Van Cleave, White****Assistant Professors: Barry, Brewer, Dempsey, Shirey, Smith**

A major in mathematics requires a minimum of 30 hours, not including 102 and 103. If Mathematics 102 and 103 are taken for credit, a minimum of 36 hours is required for a major. **It is strongly recommended that majors complete 141 by the end of the freshman year.** The major includes 141, 142, 243, 370, and five other courses with numbers above 300, two of which must be numbered 400 or above. It is recommended that mathematics majors take one year of physics. Those taking a B.S. in Education degree should see the department head as to the particular requirements for this degree or for certification requirements.

A minor in mathematics requires a minimum of 18 hours not including 102 and 103. If Mathematics 102 and 103 are taken for credit, a minimum of 24 hours is required for a minor. The minor includes 141, 142, 243, and two courses with numbers above 300.

A multidisciplinary minor in Computational Mathematics is also offered by the department of mathematics. To minor in Computational Mathematics one must also meet the requirements for a minor in Mathematics. The required courses are as follows: MS 141, MS 142, MS 243, MS 310, MS 344, MS 352, SCS 231 or BCS 201, EG 254, SCS 250 or BCS 250, MS 309 and EG 412.

Those taking a major or minor in mathematics may not take Mathematics 133 for credit.

101. College Algebra (3). Prerequisite: One year of high school algebra. A basic first course in algebra. Recommended for those in the Nursing and Law Enforcement Curriculum with an average background in high school mathematics. May not be used to meet major and minor requirements. Not open to those with credit in MS 102 or its equivalent.

102. Modern College Algebra (3). Prerequisite: One year of high school algebra and a satisfactory score on ACT. Recommended for those in the Business Administration Curriculum. An axiomatic approach to algebra for mathematics majors and minors, science majors, and liberal arts students.

103. Plane Trigonometry (3). Prerequisite: Plane geometry and either Mathematics 101 or 102 or satisfactory score on ACT.

104. Finite Mathematics (3). Prerequisite: MS 102 or satisfactory score on ACT. Mathematical logic, set theory, counting and binomial theorem, matrices, and an introduction to probability theory. May be used toward the science requirement for the B.A. Degree. Not open to students majoring or minoring in mathematics.

122. Mathematical Methods for Business Applications (3). Prerequisite: Mathematics 101 or 102. Matrices and determinants with application to systems of linear equations, inequalities, principles of linear programming, the simplex algorithm, and an introduction to probability. May be taken by mathematics majors and minors as an elective, but may not be used to meet the major or minor requirements in mathematics.

133. Fundamentals of Mathematics (3). Not open for credit to majors or minors or to those with credit in 102 or its equivalent. The structure of mathematics with selected topics from number systems, sets and equations, functions and graphical representation of functions, and elementary coordinate geometry. Required of those in education curricula.

140. Analytic Geometry (3). Prerequisite: Mathematics 102 or 103. Conics, polar coordinates and polar curves. Parametric equations and solid analytic geometry. Recommended to those desiring to strengthen their precalculus background in mathematics. Applies toward major or minor, as does MS 102 and 103; does not count against requirement of 30 hours beyond 103. Offered during Minimester only.

141. Calculus I (3). Prerequisite: Plane geometry and Mathematics 102. Co-requisite: Mathematics 103. Introduction to analytic geometry, functions and limits, differentiation of algebraic functions with applications.

142. Calculus II (5). Prerequisite: Mathematics 141. Integration, analytic geometry of higher plane curves, transcendental functions, parametric equations, polar coordinates, and vectors in the plane.

243. Calculus III (4). Prerequisite: Mathematics 142. Infinite series, vectors and vector functions, partial differentiation, multiple integrals.

300. History of Mathematics (3). Prerequisite: One college math course. Contributions of mathematicians from the early beginnings through the 19th century. May be taken by mathematics majors and minors as an elective, but does not count toward major or minor in mathematics. Offered during Minimester only.

302. Theory of Numbers (3). Prerequisite: Mathematics 141. Divisibility, prime numbers, congruences and residues, diophantine equations. Offered subject to demand during Minimester.

304. Mathematical Statistics I (3). Prerequisite: Mathematics 142. Probability, discrete random variables and their probability distributions, continuous random variables and their probability distributions, estimation and confidence intervals, hypothesis testing, and analysis of enumerative data.

309. Mathematical Foundations of Computer Science (3). Prerequisite: SCS 254 or equivalent. Co-requisite: MS 243. Introduction to basic concepts and techniques used in mathematical models of computation. Elements of the predicate calculus. Elements of probability, linear systems and error analysis.

310. Numerical Analysis (3). Prerequisite: Mathematics 243. Numerical analysis and computing with emphasis on methods adaptable to electronic computing machinery.

311. Field Experiences in Applied Mathematics (3). Prerequisite: Mathematics 142. Field trips are made to various research laboratories and business corporations to acquaint the student with modern industrial applications of mathematics. Classes will be spent in recapitulating the field experiences of the class and in the working of typical applied problems. (Offered during Minimester only.)

344. Differential Equations (3). Prerequisite: Mathematics 243 and eight hours of physics or permission of instructor. The methods of solving differential equations of the first or second order and higher order linear equations, including series solutions and selected applications.

351. Introduction to Abstract Algebra (3). Prerequisite: Mathematics 142. Algebraic structures, rings, fields, and groups. The axiomatic approach.

352. Linear Algebra (3). Prerequisite: Mathematics 142. Matrices, linear systems, vector spaces with emphasis on algebraic structures. Offered in Spring Semester.

370. Intermediate Analysis (3). Prerequisite: Mathematics 243. Required of all mathematics majors. Real number system, elementary point set theory, limits, theory of continuous functions, differentiable functions.

400. Senior Seminar in Mathematics (3). Prerequisite: Senior standing. The student will write a paper on an approved topic and will give an oral presentation to the class. Offered during Minimester only.

403. Vector Analysis (3). Prerequisite: Mathematics 243 and one year of physics. The algebra and calculus of vectors; applications to geometry, electricity, harmonic functions, and potentials. Matrices and determinants. Offered in Fall Semesters.

404. Mathematical Statistics II (3). Prerequisite: Mathematics 304. A continuation of MS 304. Selected topics from multivariate probability distributions, functions of random variables, approximations to probability distributions, methods of estimation, linear models and least squares estimators analysis of variance, and non-parametric statistics.

405. Advanced Calculus (3). Prerequisite: Mathematics 370. Selected topics from advanced calculus. Elements of partial differentiation including the general theorems, Jacobians. Topics in the theory of integration.

423. A Survey of Geometrics (3). Prerequisite: MS 142. A major portion of this course will be devoted to Euclidean geometry. The remaining portion will be devoted to topics selected from finite geometries, non-Euclidean geometry, and other geometries.

451. Functions of a Complex Variable (3). Prerequisite: Mathematics 405 or permission of the instructor. Fundamental operations with complex numbers, differentiation and integration theorems, mappings, series, and residues.

480. Introductory Topology (3). Prerequisite: Mathematics 370 and one other 300 level course. Basic topological concepts to include topological space, transformations, compactness, connectedness, and separation axioms.

484. Partial Differential Equations (3). Prerequisite: Mathematics 344. Standard methods of solution: separation of variables, Fourier Series, Laplace Transforms. Selected applications.

BACHELOR OF SCIENCE DEGREE

MAJOR MATHEMATICS—MINOR BASIC ENGINEERING (Suggested Program)

Instructional Media 101	1
English 101, 102, 141, 201, 202 or 301, 302	14
History 201, 202	6
Social Science Electives	6
Psychology 201.....	3
Chemistry 105, 106, 107, 108.....	10
Mathematics 141, 142, 243, 344, 370, 403	21
Mathematics Electives (300+).....	6
Mathematics Electives (400+).....	3
Physics 211, 211L, 212, 212L	10
Engineering 112, 121, 122, 201, 202, 254, 343, 361, 373	25
General Electives	23
Total	128(a)

(a) Of the total hours, 52 must be 300 or above.

BACHELOR OF SCIENCE DEGREE

MAJOR MATHEMATICS—MINOR CHEMISTRY (Suggested Program)

Instructional Media 101	1
English 101, 102, 141, 201, 202 or 301, 302	14
History 201, 202	6
Social Sciences Electives	6
Psychology 201.....	3
Mathematics 102, 103	6
Mathematics 141, 142, 243, 344, 370.....	18
Mathematics Electives (300+).....	6
Mathematics Electives (400+).....	6
Chemistry 105, 106, 107, 108.....	10

Chemistry 231, 232, 321	12
Chemistry Electives (300+)	3
Physics 211, 211L, 212, 212L	10
Approved Electives	27
Total	128(a)

(a) Of the total hours, 52 must be numbered 300 or above.

BACHELOR OF SCIENCE DEGREE

MAJOR MATHEMATICS—MINOR PHYSICS (Suggested Program)

Instructional Media 101	1
English 101, 102, 141, 201, 202 or 301, 302	14
History 201, 202	6
Social Sciences Electives	6
Psychology 201	3
Chemistry 105, 106, 107, 108	10
Mathematics 102, 103	6
Mathematics 141, 142, 243, 344, 370	18
Mathematics Electives (300+)	6
Mathematics Electives (400+)	6
Physics 211, 211L, 212, 212L	10
Physics 301, 301L	4
Physics Electives (300+)	9
Engineering 112 or Approved Elective	2
Approved Electives	27
Total	128(a)

(a) Of the total hours, 52 must be numbered 300 or above.

DEPARTMENT OF PHYSICS

Reid: Department Head
Professor: Reid
Associate Professor: Hicks
Assistant Professor: MacRae

PHYSICS (PHS)

Requirements for a major in physics include 34 semester hours as follows (the courses are customarily taken in the order indicated): 211*, 212, 211L, 212L, 301, 301L, EG 361, 341, 343, 343L, 441, 443, 443L, and 491.

Requirements for a minor in physics include: 211, 212*, 211L, 212L, 301, 301L, and nine hours in physics beyond the 200 level. These courses will be selected in conference with the physics department student adviser, and must include at least one additional laboratory course beyond the 200 level. Students in the Teacher Education Program should confer with the department head concerning their course requirements.

*Students who have not taken high school physics may wish to schedule PHS 101, 102, prior to taking 211, 212.

DESCRIPTION OF COURSES

101, 102. Physics for the Liberal Arts (3) (3). Two semesters. A gentle introduction to physics, primarily employing graphical techniques. Topics usually covered first semester include: linear functions; displacement, velocity, and acceleration in one-dimension; the concept of integration as the area under a curve; differentiation as the slope of the tangent to a curve; addition of vectors and resolution of vectors into components by graphical construction; polar graphs. Usual second semester topics include: full-logarithmic graphing of power laws; semi-logarithmic graphing of exponential functions such as exponential growth and decay; the use of vectors to depict such concepts as the Lorentz force, and angular momentum; graphic optics using ray diagrams. Instruction includes many lecture demonstrations gleaned from all areas of physics. Some trigonometry is employed, taught as needed.

101L, 102L. Physics Laboratory for the Liberal Arts (1) (1). Two semesters. Usually taken in conjunction with Physics 101, 102. Two laboratory hours each week. The laboratory consists of experiments designed to enhance the student's understanding of elementary physical concepts.

PHS 201, 202 College Physics (4) (4). Two semesters. Prerequisite: MS 102, 103, or credit in high school algebra and trigonometry. Co-requisite: PHS 211L, 212L. An introduction to topics in mechanics, heat, electricity, magnetism, sound, light, relativity, and atomic physics.

211, 212. Physics for Scientists and Engineers (4) (4). Two semesters. Prerequisite or concurrently: MS 141, 142. Co-requisite: Physics 211L, 212L. An introduction to topics in mechanics, heat, electricity, magnetism, sound, light, relativity, and atomic physics, using calculus. Credit will not be granted for both 201 and 211, nor 202 and 212.

211L, 212L. Elementary Laboratory Techniques (1) (1). Two semesters. Co-requisite: Physics 201, 202 or 211, 212. Two laboratory hours each week. To illustrate basic physical laws and give the student proficiency in the manipulation of apparatus. The theory of errors is stressed.

Physics 212 and MS 142 are prerequisite to all 300 and 400 level courses, except 325, 327 and 339.

301. Modern Physics (3). Prerequisite: CY 105, 106, 107, 108. Co-requisite: Physics 301L. Elementary particles, quantum effects, electromagnetic radiation, atomic structure, optical and X-ray spectra, and the special theory of relativity.

301L. Modern Physics Laboratory (1). Co-requisite: Physics 301. Three laboratory hours each week. Fundamental studies in contemporary physics with emphasis on advanced laboratory procedures and techniques, and individual research. Topics covered include electronic charge and charge-to-mass determinations; Franck-Hertz Experiment; photoelectric studies; nuclear radiation detection, absorption, spectroscopy, and analysis; counting techniques and statistics; Bragg Diffraction; Zeeman Effect; and Hall Effect.

325. Principles of Flight (3). General introduction to flight and preparation for the FAA Private Pilot Written Examination. Topics include: why an airplane flies, operation of aircraft and engines, navigation, weather and FAA flight regulations. The purpose of the course is to prepare the student to take flight instruction leading to the Private Pilot Certificate. **NO ACTUAL FLYING IS REQUIRED:** however, it is expected that in-the-air flight instruction at reduced rates will be made available through a local airport operator for those who desire to continue their training. Not to be credited toward a major or minor in Physics.

327. Elementary Radiation Physics (3). Intended for any student with a moderate interest in science, namely students of pre-medicine, pre-dentistry, nursing and biology. Types of radiation and how they interact with matter; dosimetry and absorbed energy measurements; biological effects and control of radiation exposure; and applications of radiation and radioisotopes. Lecture periods occasionally replaced by laboratory periods at the discretion of the instructor.

331. Introduction to Electronics (3). Co-requisite: Physics 331L. Electrical measurements, power supplies, amplification by vacuum tubes and transistors, oscillators.

331L. Electronics Laboratory (1). Co-requisite: Physics 331. Three laboratory hours each week. Circuits described in Physics 331 are assembled and tested.

332. Physics of Music (3). No prerequisite. Designed to acquaint music majors with some aspects of sound and music. Topics include vibration of stretched strings, rods, plates, and air columns; characteristics of waves, such as reflection, refraction, interference, and diffraction; wavelength, frequency, and velocity; fundamental and overtones.

339A, 339B, 339C . . . (1). No prerequisite. One class meeting per week. A modular course about a topic of interest to the non-mathematical, but inquiring, mind, e.g.,: "Metrication"; "Black Holes"; "Space Travel"; "Interstellar Communication"; "The Energy Crisis"; "Planetarium Operation"; "Physics of Music"; "Concepts of Einstein's Relativity"; "The Weather"; etc.

341. Intermediate Mechanics (3). Prerequisite or concurrently: MS 344. Kinematics, dynamics of particles, systems of particles, and rigid bodies; work and energy; statics of rigid bodies, planetary motion, fluid mechanics, and elasticity.

342. Optics (3). Geometrical and physical optics, spectra, wave and quantum aspects of electromagnetic radiation, refraction, reflection, dispersion, diffraction, interference, and polarization. Occasional classroom periods are replaced by laboratory work at the discretion of the instructor.

343. Electromagnetic Fields (3). Prerequisite: MS 243. Prerequisite or co-requisite: Physics 343L, MS 403. A summary of germane topics from vector analysis, which is used throughout the course; electrostatic fields, dielectrics, magnetic fields of steady currents, electromagnetic induction, magnetic materials, and Maxwell's Equations in differential and integral form.

343L. Electricity and Magnetism Laboratory I (1). Co-requisite: 343. Three laboratory hours a week. Basic electrical measurements, trajectories of charged particles in electric and magnetic fields, and basic electrical circuits.

Engineering 361. Thermodynamics and Statistical Mechanics (3). (May be counted toward a major in Department of Physics.) For description, see Engineering 361.

382. Special Topics (3). Prerequisite: Consent of instructor. A topic of current interest in the field of physics, offered by popular demand or due to the presence of a uniquely qualified lecturer.

402. Nuclear Physics (3). Prerequisite: Physics 301. A continuation of 301. Topics include natural and induced radioactivity, nuclear theories, alpha, beta, and gamma radiation, nuclear processes, nuclear fission, and particle acceleration.

403. Introduction to Special Relativity (3). The failure of Newtonian Dynamics; the Lorentz-Einstein transformation; propagation of light, including stellar aberration and "drag coefficient"; classical and relativistic Doppler effect; relativistic collisions; electrostatic and magnetic forces.

411, 412, 413, 414. Laboratory Practicum (1) (1) (1) (1). One or more laboratory periods per week. Prerequisite: permission of head of department. The use of laboratory equipment in physics instruction. For juniors and seniors planning careers in high school, college, or university teaching. May be repeated for a maximum of four semesters. Not for credit toward a major or minor.

441. Theoretical Mechanics (3). Prerequisite: Physics 341, MS 403. Statics and dynamics of rigid bodies, oscillatory motion, and the equations of Lagrange and Hamilton.

443. Electrodynamics (3). Prerequisite: Physics 343. Prerequisite or co-requisite: Physics 443L. Electromagnetic waves in free space and matter, reflection and refraction of electromagnetic waves, guided waves, field of a moving charge.

443L. Electricity and Magnetism Laboratory II (1). Co-requisite: Physics 443. Three laboratory hours a week. A continuation of Physics 343L. Nonlinear devices, negative feedback, positive feedback and oscillation, microwave production, propagation, reflection, polarization, and diffraction.

451. Solid State Physics (3). Prerequisite: Physics 301, 443, EG 361. A survey of this field, with emphasis on the thermal and electrical properties of solids.

491. Quantum Mechanics (3). Prerequisite: Physics 301, 441, 443, MS 484. Review of mathematical methods including linear operators, the Fourier Integral, matrices, eigenfunctions, orthonormal functions, commutators. Heisenberg's Uncertainty Relation, Matter waves, Ehrenfest's Theorem, Expectation values. Solutions to the Schrodinger Equation for "Particle in a box," the linear harmonic oscillator, the one-dimensional crystal, and the hydrogen atom.

BACHELOR OF SCIENCE DEGREE

MAJOR PHYSICS—MINOR MATHEMATICS
(Suggested Program)

Instructional Media 101	1
English 101, 102, 141, 201, or 301, 202 or 302	14
History 201, 202	6
Social Science Electives	6
Psychology 201.....	3
Chemistry 105, 106, 107, 108.....	10
Engineering 112, 121, 231	7
Physics 101, 101L, 102, 102L or Approved Electives	8
Physics 211, 211L, 212, 212L, 301, 301L, EG 361, 341, 343, 343L, 441, 443, 443L, 491	34
Mathematics 141, 142, 243, 344, 403, 484	21
Approved Electives.....	18
Total	128(a)

(a) Of the total hours, 52 must be 300 or above.

BACHELOR OF SCIENCE DEGREE

MAJOR PHYSICS—MINOR BASIC ENGINEERING
(Suggested Program)

Instructional Media 101	1
English 101, 102, 141, 201 or 301, 202 or 302	14
History 201, 202	6
Social Science Electives	6
Psychology 201.....	3
Chemistry 105, 106, 107, 108.....	10
Engineering 112, 121, 122, 201, 202, 231, 343, 373.....	22
Physics 101, 101L, 102, 102L or Approved Electives.....	6
Physics 211, 211L, 212, 212L, 301, 301L, EG 361 341, 343, 343L, 441, 443L, 491	34

Mathematics 141, 142, 243, 344, 403, 484	21
Approved Electives	5
Total	128(a)

(a) Of the total hours, 52 must be 300 or above.

CENTER FOR INDIVIDUALIZED INSTRUCTION

The Center encourages the development of individualized instruction at Jacksonville State University by supporting the efforts of the Academic Departments to design and offer personalized or computer assisted sections of regular courses. Generally, students may identify sections taught by the Center's methods by the label PSI (Personalized System of Instruction) next to the section number.

In PSI sections, the content and credit is the same as for any section, but the teaching method is different. The course material is broken into relatively small units. The student studies a unit and engages in learning activities prescribed by the instructor, which may include laboratory experience, computer simulation, slide/tape or video tape presentations. When the exercises are completed, the student schedules an evaluation. The mastery procedure means that students may work quickly through the parts of the course with which they are already familiar and spend more time in areas of deficiency.

Evaluations that do not indicate mastery of the concepts involved are considered diagnostic, with grades based on the student's best performances, so that the student is not penalized for mistakes as long as the material is eventually learned. Since students work at different paces, conventional lectures are not usually presented. Instead, more individual discussion with the instructor generally takes place.

The Center also offers several individualized courses for general elective credit under the LS designation to deal with individual student difficulties in study, reading, communication, or mathematics skills.

As another service, selected units of Center courses may also be available on a non-credit basis for students who want more limited work as a review for higher-level courses. Students desiring more information about courses or services may contact the Director, Center for Individualized Instruction.

DESCRIPTION OF COURSES

LEARNING SKILLS (LS)

LS 101. (1 hr) Academic Survival Skills. Individualized instruction in reading, listening, note-taking, study skills. Additional skills taught include effective time management and self-control techniques. Not open to those with senior standing.

LS 102. (2 hrs) Problem-solving and Reasoning Skills. Individualized instruction in problem-solving, verbal reasoning, mathematical word problems, analogies, and decision-making.

LS 105. (3 hrs) Reinforcing Communication Skills. Individualized instruction in reading, composition, and vocabulary. Eligibility for course credit determined by ACT score or a related test. Not open to those with credit in EH 101.

LS 110. (3 hrs) Reinforcing Quantitative Skills. Individualized instruction in basic arithmetic and algebraic skills. Eligibility for course determined by ACT score or a related test. Not open to those with credit in MS 101 or MS 102.

LS 120. (1 hr) Life/Work Planning Skills. Individualized instruction in self-analysis of abilities, achievements, and interests to develop career goals and plans. Various career opportunities will also be explored.

LS 301, 302, 303. (1-3 hrs) **Academic Performance Management.** Realizing that fellow students can be effective teachers, the University offers negotiable academic credit to qualified students who serve as tutors in selected areas. Qualifications include 96 hours completed, and 1.5 overall G.P.A. *Students may not receive more than 3 hours credit for any combination of these courses.*

LS 320. (1 hr) **Employability Skills.** Individualized instruction in the job search process, including cover letter and resume writing and interviewing.

DEPARTMENT OF MILITARY SCIENCE (MSC)

Professor of Military Science: Colonel Archie A. Rider

**Assistant Professors: Blackburn, Hough, Jenkins, Murphy, Rogala,
Roman, Sackett, Scott, Wood**

The philosophy of the Military Science Department is that character, personality, broad liberal arts background, and professional training are of major importance in the selection and preparation of U. S. Army officers.

Jacksonville State University has an approved United States Army Reserve Officers Training Corps (ROTC) Program offered on a voluntary basis. Satisfactory completion of the prescribed program by qualified students satisfies the requirement for commissioning as a Second Lieutenant in the U. S. Army. The Military Science program also serves all students with offerings designed for personal professional growth and understanding of the U. S. Armed Forces.

BACHELOR OF SCIENCE DEGREE¹

Major in Military Science

Instructional Media 101	1
English 101, 102, 141, 201, and 202 (or 301 and 302)	14
History 201, 202	6
Social Science Electives	6
² Laboratory Science (or Mathematics/Science)	14
Psychology 201	3
Basic Course—Military Science 101, 112, 114, 115, 116, 201, 202, 213, 214, 233	8
Advanced Course—Military Science 301, 302, 303, 305, 401, 402	18
History 304	3(a)
³ Approved Electives (300+)	9
Approved Electives and Minor*	46
Total	128(b)

A minor in Military Science requires nineteen hours of courses in Military Science from the following curriculum:

Advanced Military Science 301, 302, 303, 305, 401, 402	12
Military Science Electives	7
Total	19

* A student majoring in Military Science may minor in any area in which the University offers a minor. Requirements for the minor are found within the appropriate subject area listing in this catalog.

¹ See major and minor options under General Requirements for Bachelor of Science Degree.

² General Science 221, 222 may be taken in this curriculum if the other science is biology. Modern College Algebra 102 and Trigonometry 103 or Finite Mathematics 104 (6 hrs.) may be taken in lieu of one year of a laboratory science.

³ Must be selected from at least two of the following areas: GY, HY, PSC, EC, MGT; and have approval of the PMS.

(a) Or a suitable substitute 300 level course by permission of the PMS.

(b) Of the total hours, 52 must be numbered 300 or above.

ENROLLMENT

Enrollment in the ROTC Program for academic credit is open to males and females of the student body. The Military Science Department offers a broad spectrum of courses which may be counted as electives in support of other selected degrees. The first two years of Military Science basic courses are designed to provide the student with broad flexibility in the choice of a profession. The second two years of Military Science advanced courses will lead to a commission as a Second Lieutenant in the U. S. Army. The collateral courses offered in conjunction with the required Military Science core courses will assist in producing a framework of knowledge of maximum breadth. This will insure the student's success in professional and graduate schools, as well as many professionally oriented careers in teaching, industry, and government.

Enrollment in the ROTC Advanced Course for eventual commissioning is open to male and female students who have earned not fewer than an equivalent number of quality points as hours of credit earned, who meet minimum established physical standards, completed the basic course or have equivalent credit in lieu thereof, who possess requisite leadership potential, and who have the permission of the Professor of Military Science. Those students pursuing an Army commission must complete or receive credit for 8 semester hours of the Basic Courses listed below, in addition to MSC 301, 302, 303, HY 304, MSC 305, 401, and 402.

DESCRIPTION OF COURSES

Basic Courses

101. The Military in U. S. Society (2). The role which military power plays in preserving our freedoms; organization for national defense and a critical analysis of threats to the United States; organization and mission of the Army, Army equipment, and recent change and progress; a survey of the military as a profession, officer recruitment, and leadership as they have evolved during this century. This core course recommends two laboratory periods for Advanced program candidates.

112. Basic Marksmanship (2). Fundamentals, principles and techniques of rifle/pistol marksmanship including equipment, maintenance, shooting positions, safety, range operations.

113. Survival (2). Fundamentals, principles, and techniques of survival in nuclear, disaster, and other extreme environments. Includes consideration of basic needs for food, water, clothing, shelter, security, and the field expedient sources and techniques used in satisfying these needs. Students will participate in outdoor training and will understand the fundamental precautions essential to survival in primitive environments devoid of normal facilities and services.

115. First Aid (2). Instruction in lifesaving measures for clearing the upper airway, artificial respiration, closed-chest heart massage, control of bleeding and shock, protection from and treatment for injuries from nuclear explosions and chemical and biological contamination.

116. Unarmed Self Defense (2). The techniques of basic and advanced hand-to-hand combat and the tactics used to subdue an opponent.

201. *Leadership Models (2). The functions, duties, and responsibilities of junior leaders; development of leadership potential through practical exercises; orientation on the ROTC Advanced Course; introduction to military tactics and operations; principles of offensive and defensive combat; introduction to troop leading procedure.

202. *Organizational Leadership (2). Continuing development of leadership through practical exercises; operations of the basic military team; the concept of organizational effectiveness; use of military maps and aerial photographs, and introduction to basic orienteering.

213. Fundamentals of Mountaineering (2). Introduction to rope care and management, basic knots, basic climbing techniques, rappelling and individual survival techniques. Students will be required to participate in one backpacking or mountaineering trip during the semester.

214. Advanced Mountaineering (2). Practical application of advanced techniques of fixed installations (rope bridges), assault climbing techniques, advanced team climbing, mountain bivouacs and evacuation of sick/injured, and advanced rappelling. Students will be required to participate in one mountaineering climbing trip during the semester. Taken only after 213 or by permission of PMS.

233. American and Soviet Military Trends (2). To examine the development of U. S. and Soviet armed forces, describing where they have been, where they are now, and where they are going unless one or both sides change course.

Special Courses

151-158. Rangers (1). Develop leadership qualities of ROTC cadets through small unit tactics, self-discipline, self-confidence, and resourcefulness. Cadets will be required to participate in one two-day training exercise during the semester.

161-168. Varsity Rifle Team (1). In-depth analysis of all facets of competitive firing with small bore rifle to include safety, equipment care, aiming, breath and trigger control, positions and participation in ten competitive matches a year.

300. On Campus Basic Course (5). Five class periods each day during the minimester. Physical training, leadership, individual tactical training with emphasis on land navigation, weapons training, communications, and tactical exercises. Qualifies students, who have not completed the basic course and are not able to attend the Fort Knox Basic Camp, for the Advanced ROTC Program. Taken only by permission of the PMS.

Advanced Courses

301. Advanced Military Science (3). Two class periods and one leadership and one physical training laboratory. Advanced leadership, military teaching principles, threat presentation, and Military History-Principles of War. Cadets will be required to participate in one two-day field training exercise during this semester.

302. Advanced Military Science (3). Two class periods and one leadership and one physical training laboratory. Advanced map reading and small unit tactics. Cadets will be required to participate in one two-day field training exercise during the semester.

303. Advanced Military Science (3). Minimester. Two and one-half hour class periods daily. Physical training, leadership, land navigation, NBC, radio and wire communications, and tactics exercises. Cadets will be required to participate in one two-day field training exercise during the semester.

History 304. American Military History (3). Required for commissioning or a suitable substitute 300 level course by permission of the PMS. For a course description see HY 304.

305. Advanced Military Science (3). Advanced Camp. Practical application of tactics; leadership training and practice; arms qualification. Six weeks during the summer at a military reservation designated by the Department of the Army (no fee). Prerequisite: Military Science III courses and/or permission of PMS.

401. Advanced Military Science (3). Two class periods and one leadership and one physical training laboratory. Leadership Assessment Program, written and oral communications, Army training management, Role of the Noncommissioned Officer, Command and staff functions, Intelligence and combat information.

402. Advanced Military Science (3). Two class periods and one leadership and one physical training laboratory. Ethics and Professionalism, Military Law and Justice, U. S. Army Personnel Management System, Advanced Logistics, Post and installation support; and a comprehensive exam.

403. Seminar on Leadership (3). Ethics and analysis of selected leadership and management problems at the unit level, guidelines for small unit leadership, discipline, military writing, and professionalism. Obligations and responsibilities of an officer on active duty; chain of command; and officer-enlisted relationships. Application of leadership principles, stressing responsibilities of the small unit leader and affording experience through practical experience.

UNIFORMS AND EQUIPMENT

Uniforms, tests, and certain equipment are furnished by the United States Government at no expense to the cadet. Uniforms issued to Cadets remain the property of the United States Government and will be turned in upon withdrawal from the course, at the end of each academic year, or upon completion of the course if such occurs other than at the end of the academic year. In instances where losses or damages occur, reimbursement to the government will be paid by the cadet.

DISTINGUISHED MILITARY STUDENTS AND DISTINGUISHED MILITARY GRADUATES

The Professor of Military Science may designate as Distinguished Military Students persons who meet the following criteria:

1. Possess outstanding qualities of military leadership, high moral character, and definite aptitude for military service.
2. Have distinguished themselves academically and by demonstrated leadership through their accomplishments while participating in recognized campus activities.
3. Are scheduled to complete the advanced courses, Senior ROTC Program, within one school year, and have a current standing in military subjects among the upper third of their ROTC class.

Cadets selected as Distinguished Military Students may make advance application for a commission in the Regular Army, with appointment effective the day of graduation from the University.

The Professor of Military Science may designate as Distinguished Military Graduates persons who meet the following criteria:

1. Are Distinguished Military Students.
2. Have completed the Advanced Course Senior ROTC Program.
3. Have maintained the high standards necessary since designation as a Distinguished Military Student.
4. Have been graduated from college with a baccalaureate degree.

BRANCH IN WHICH COMMISSIONED

Upon completion of the Advanced Program and receipt of a degree from the University, the student is commissioned in a Specialty as determined by the Department of the Army. The following factors are considered in Specialty selection:

1. Spaces available in each Specialty as determined by the Department of the Army.
2. Desires of the student.
3. Appropriate college training completed.
4. Aptitude as demonstrated in ROTC subjects.
5. Physical limitations, if any, determined by Army physical examination and reviewed by Medical Department authorities.

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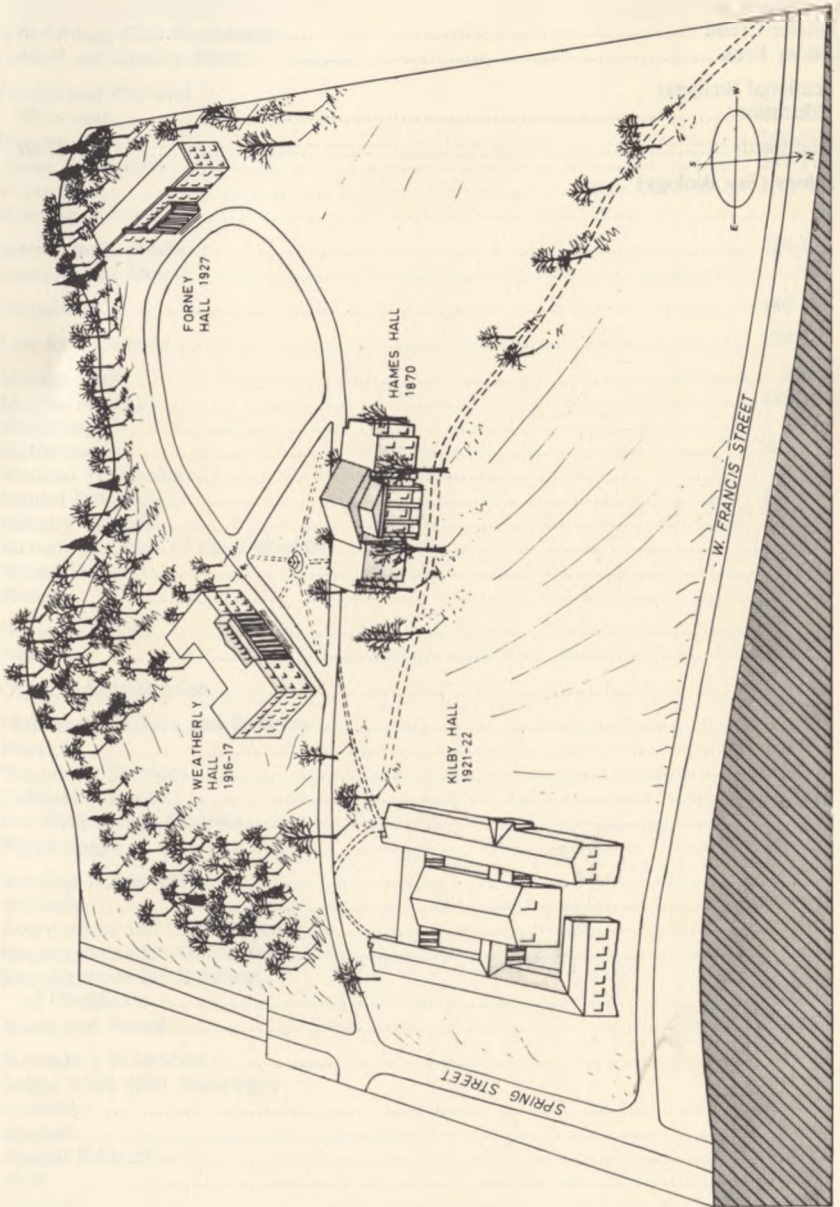
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