# College of <br> Graduate Studies Bulletin 2002-2003 

of

# Jacksonville State University 

700 Pelham Road North Jacksonville, Alabama 36265-1602

Jacksonville State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097;<br>Telephone number 404-679-4501) to award bachelor's, master's, and educational specialist degrees.

## JACKSONVILLE STATE UNIVERSITY

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# DIRECTORY OF SELECTED OFFICES 

Bursar's Office (256) 782-5462
Second Floor, Bibb Graves Hall

Career Placement Services (256) 782-5482
105 Bibb Graves Hall
College of Graduate Studies (256) 782-5329
121 Curtiss Hall

Counseling and Career Services (256) 782-5475
Third Floor, Theron Montgomery Building
Financial Aid (256) 782-5006
107 Bibb Graves Hall
M.B.A. Director (256) 782-5778

110 Merrill Hall
Registrar's Office (256) 782-5400
113 Bibb Graves Hall

Teacher Service Center (256) 782-5574
207 Ramona Wood Hall

Undergraduate Admissions Office (256) 782-5268
110 Bibb Graves Hall
University Housing \& Residence Life (256) 782-5122
117 Bibb Graves Hall

Veteran's Affairs Coordinator (256) 782-5892
101 Bibb Graves Hall

All information contained in the Bulletin is subject to change by the appropriate officials of Jacksonville State University without prior notice to individual students. Information on changes will be available in the office of the College of Graduate Studies, 121 Curtiss Hall.

Jacksonville State University is an Equal Opportunity/Affirmative Action Institution

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## GRADUATE PROGRAMS

Minimum requirements for graduation vary among degrees and majors. General admission degree requirements are found on pages 12-15 and specific program requirements are in the program descriptions listed on pages 49-181.

Graduate degrees offered by field of study are:

## Field of Study

| Accounting | Master of Business Administration (M.B.A.) |
| :---: | :---: |
| Biology | Master of Science (M.S.) <br> Master of Science in Education (M.S.Ed.)* <br> Educational Specialist (Ed.S.)** |
| Business Administration | Master of Business Administration (M.B.A.) Master of Public Administration (M.P.A.) |
| Community Agency Counseling | Master of Science (M.S.) Educational Specialist (Ed.S.) |
| Computer Systems and Software Design | Master of Science (M.S.) |
| Counselor Education | Master of Science (M.S.)* <br> Educational Specialist (Ed.S.)** |
| Criminal Justice | Master of Science (M.S.) <br> Master of Public Administration (M.P.A.) |
| Early Childhood Education | Master of Science in Education (M.S.Ed.)* Educational Specialist (Ed.S.)** |
| Early Childhood Special Education | Master of Science in Education (M.S.Ed.)* |
| Education | Master of Public Administration (M.P.A.) |
| Educational Administration | Master of Science in Education (M.S.Ed.)* Educational Specialist (Ed.S.)** |
| Elementary Education | Master of Science in Education (M.S.Ed.)* Educational Specialist (Ed.S.)** |

* Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to the program requires the appropriate fourth-year (bachelor's) teacher certification or admission to the Alternative Fifth-Year Teacher Certification Program.
** Completion of this program leads to eligibility for sixth-year teacher certification. Admission to the program requires the appropriate fifth-year (master's) teacher certification in a teaching or instructional support field.
+ Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to the program requires the appropriate fourth-year (bachelor's) teacher certification and verification of two years of teaching experience in the public schools at the early childhood, elementary, or secondary levels.


## Field of Study

Emergency Management
English
English Language Arts

Master of Public Administration (M.P.A.)
Master of Arts (M.A.)

Master of Science in Education (M.S.Ed.)* Educational Specialist (Ed.S.)**

Master of Public Administration (M.P.A.)
Master of Science in Education (M.S.Ed.)* Educational Specialist (Ed.S.)**

Master of Arts (M.A.)
Master of Arts (M.A.)
Master of Science in Education (M.S.Ed.)* Educational Specialist (Ed.S.)**

Master of Science in Education (M.S.Ed.)*
Master of Science (M.S.)
Master of Science in Education (M.S.Ed.)* Educational Specialist (Ed.S.)**

Master of Arts (M.A.)
Master of Arts (M.A.)*
Master of Science in Nursing (M.S.N.)
Master of Science in Education (M.S.Ed.)* Educational Specialist (Ed.S.)**

Master of Public Administration (M.P.A.)
Master of Science (M.S.)
Master of Public Administration (M.P.A.)
Master of Science in Education (M.S.Ed.)+

* Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to the program requires the appropriate fourth-year (bachelor's) teacher certification or admission to the Alternative Fifth-Year Teacher Certification Program.
** Completion of this program leads to eligibility for sixth-year teacher certification. Admission to the program requires the appropriate fifth-year (master's) teacher certification in a teaching or instructional support field
+ Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to the program requires the appropriate fourth-year (bachelor's) teacher certification and verification of two years of teaching experience in the public schools at the early childhood, elementary, or secondary levels.


## Field of Study

School Counseling

Secondary Education

Social Science

Spatial Analysis and Management
Special Education

Degree
Master of Science (M.S.)*
Educational Specialist (Ed.S.)**
Master of Science in Education (M.S.Ed.)* Educational Specialist (Ed.S.)**

Master of Science in Education (M.S.Ed.)* Educational Specialist (Ed.S.)**

Master of Public Administration (M.P.A.)
Master of Science in Education (M.S.Ed.)* Educational Specialist (Ed.S.)**

* Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to the program requires the appropriate fourth-year (bachelor's) teacher certification or admission to the Alternative Fifth-Year Teacher Certification Program.
** Completion of this program leads to eligibility for sixth-year teacher certification. Admission to the program requires the appropriate fifth-year (master's) teacher certification in a teaching or instructional support field.
+ Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to the program requires the appropriate fourth-year (bachelor's) teacher certification and verification of two years of teaching experience in the public schools at the early childhood, elementary, or secondary levels.


## BOARD OF TRUSTEES

THE HONORABLE DON SIEGELMAN
Governor of Alabama, President, Ex Officio

NAME
Jamie "Red" Etheredge
G. "Mack" Roberts

Bobby N. Kennamer
Charles T. "Pete" Mathews
Jim Folsom, Jr.
James D. Thornton
James R. Bennett
Gladys Carlisle
Randy Owen

CONGRESSIONAL
DISTRICT

Dr. Ed Richardson, State Superintendent of Education, Ex Officio

## HISTORY

From modest beginnings, Jacksonville State University has evolved into the educational center of Northeast Alabama. The Alabama Legislature in the 1882-83 session created a state normal school when Governor Edward O'Neal signed into law a bill creating the school on February 22, 1883. Jacksonville State Normal School acquired the facilities and equipment of Calhoun College, consisting of twelve acres of land and a two-story brick building. The Board of Directors elected James G. Ryals, Jr., as the first president. The school opened with three instructors: W. J. Borden, Mathematics; Eliza A. Bowen, English; and Ida J. Woodward, primary department. As stipulated in the establishing act, the Normal School conducted a preparatory school for children of the town and surrounding areas. At the end of the first year, on August 15, 1884, William Mark Haymes, President of the Board of Directors, reported that funds totaling $\$ 4,751.25 \mathrm{had}$ been received, including $\$ 2,500$ from the state, that 25 students were enrolled in the normal school, and that 222 were in the preparatory school.

The Normal School remained in operation until 1930 when it became Jacksonville State Teachers College, reflecting an increasing higher education role for the Institution. Five years later, the College earned regional accreditation from the Southern Association of Colleges and Schools. In 1957, the name again changed, to Jacksonville State College, when the first graduate program, the master's degree in elementary education, was created. On August 2, 1966, the Legislature authorized the State Board of Education to elevate the College to university status. On August 17, 1967, the Legislature established an independent Board of Trustees for the University and divested jurisdiction from the State Board of Education.

Jacksonville State University has been served by eleven presidents: James G. Ryals, Jr. (1883-85), J. Harris Chappell (1885-86), Carlton Bartlett Gibson (1886-92), J.B. Jarrett (1892-1893), Jacob Forney IV (1893-1899), Clarence William Daugette (1899-1942), Houston Cole (1942-1971), Ernest Stone (19711981), Theron E. Montgomery (1981-1986), Harold J. McGee (1986-1999), and William A. Meehan (1999present).

Jacksonville State University has developed into a modern regional university serving Northeast Alabama on a 318 -acre campus with 58 buildings. In addition to the main campus, the University offers undergraduate and graduate courses at its off-campus center at Gadsden (JSU-Gadsden) and distance learning opportunities at numerous sites throughout its service area. Through its programs of teaching, research, and service, Jacksonville State University has served the region and state for more than one hundred years.

## MISSION STATEMENT

Jacksonville State University is a public, comprehensive teaching institution that provides educational, cultural, and social experiences for a diverse undergraduate and graduate student population. As a studentcentered university, Jacksonville State University strives to balance academic challenges with a range of support services for students' academic, career, and personal goals. As an academic institution, Jacksonville State University seeks to produce broadly educated graduates with skills for employment, citizenship, and life-long learning. As a comprehensive university, Jacksonville State University supports scholarly and service activities consistent with its academic and professional strengths.

## LOCATION

The University is located in the foothills of the Appalachian Mountains midway between Birmingham and Atlanta in Jacksonville, a town of about 10,000 permanent residents. The University is on Alabama Highways 21 and 204 about 20 miles north of Interstate 20 at the Anniston/Oxford exit.

## UNIVERSITY CALENDAR

Jacksonville State University (JSU) is on a semester calendar that includes a fall and spring semester and summer terms which vary in length from four to six to eight weeks. The fall semester usually begins in late August and ends in mid December. The spring semester begins after New Year's Day and ends in late April or early May. The summer terms begin in early May, early June, and early July, and conclude in early August. Specific dates for semesters and terms are available from the Registrar's Office, Room 113 Bibb Graves Hall, or in the Class Schedule.

## FALL SEMESTER 2002

| Aug 27-28 | Tues-Wed | Registration for those students not pre-registered - until 6:00 p.m. |
| :---: | :---: | :---: |
| Aug 29 | Thu | Classes commence 7:30 a.m. - late registration fee charged |
| Sep 2 | Mon | Labor Day Holiday (no classes) |
| Sep 5 | Thu | Last day for registration and addition of courses to schedule |
| Sep 12 | Thu | Last day to withdraw and receive $80 \%$ tuition refund |
| Sep 26 | Thu | Last day to withdraw and receive $50 \%$ tuition refund |
| Sep 27 | Fri | Application for Degree/Comprehensive Examination due in Graduate Office |
| Oct 24 | Thu | Mid-term grades due |
| Oct 28 | Mon | Academic Advisement begins for 2003 Spring Semester registration |
| Oct 30 | Wed | Last day to drop courses or withdraw without academic penalty |
| Nov 4 | Mon | Thesis due to Graduate Office for review |
| Nov 6-8 | Wed-Fri | Telephone/Internet pre-registration for 2003 Spring Semester |
| Nov 11-Dec 3 |  | Pre-registration for 2003 Spring Semester |
| Nov 25 | Mon | Last day to withdraw or drop passing |
| Nov 27 | Wed | No classes |
| Nov 28-29 | Thu-Fri | Thanksgiving Holiday (no classes) |
| Dec 2 | Mon | Last day of classes |
| Dec 3 | Tues | Academic Preparation Day |
| Dec 3 | Tues | Total balance due for students pre-registered for 2003 Spring |
| Dec 4-10 | Wed-Tues | Semester Examinations |
| Dec 14 | Sat | Commencement |
|  |  | 10:00 a.m., College of Education \& Professional Studies and College of Nursing |
|  |  | 2:00 p.m., College of Arts \& Sciences and |
|  |  | College of Commerce and Business Administration |

## SPRING SEMESTER 2003

Dec 3
Jan 3
Jan 3
Jan 6
Jan 13
Jan 20
Jan 21
Jan 24

Feb $4 \quad$ Tues
Feb 25 Tues
Mar 4 Tues
Mar 5-14 Wed-Fri
March 10
Mar 24-28

Tues
Fri
Fri
Mon
Mon
Mon
Tues Fri

Mon
Mon-Fri

Total balance due for students pre-registered for 2003 Spring
Registration for those students not pre-registered - until 4:30 p.m.
Orientation for first-time graduate students - 2:00 p.m.
Classes commence 7:30 a.m. - late registration fee charged
Last day to register or add a classes to schedule
Martin Luther King Day (no classes)
Last day to withdraw and receive $80 \%$ tuition refund
Application for Degree/Comprehensive Examination due in
Graduate Office
Last day to withdraw and receive $50 \%$ tuition refund
Mid-term grades due
Last day to drop courses or withdraw without academic penalty
Pre-registration for 2003 Summer and Fall
Thesis due to Graduate office for review
Spring Holidays (no classes)

| Apr 7 | Mon | Last day to withdraw or drop passing from a course |
| :--- | :--- | :--- |
| Apr 14 | Mon | Last day of classes |
| Apr 15 | Tues | Academic Preparation Day |
| Apr 15 | Tues | Total balance due for students pre-registered for 2003 May Term |
| Apr 16-22 | Wed-Tues | Semester Examinations |
| Apr 25 | Fri | Commencement - 6:30 p.m. |

## MAY TERM 2003

| Apr 15 | Tues | Total balance due for students pre-registered for 2003 May Term <br> Apr 28 |
| :--- | :--- | :--- |
| Mon | Registration for those students not pre-registered |  |
| Apr 28 | Mon | Orientation for first-time graduate students - 2:00 p.m. |
| Apr 29 | Tues | Classes commence at 7:30 a.m. - late registration fee charged |
| Apr 30 | Wed | Last day to register or add courses to schedule |
| May 5 | Mon | Last day to withdraw and receive 80\% tuition refund |
| May 13 | Tues | Last day to withdraw and receive 50\% tuition refund |
| May 13 | Tues | Last day to drop courses without academic penalty |
| May 20 | Tues | Last day to withdraw or drop passing |
| May 20 | Tues | Total balance due for students pre-registered for 2003 Summer One <br> May 23 |
| Fri | Application for Degree/Comprehensive Examination due in <br> Graduate Office |  |
| May 26 | Mon | Memorial Day Holiday (no classes) <br> May 27 |

## SUMMER ONE TERM 2003

| May 20 | Tues | Total balance due for students pre-registered for 2003 Summer One |
| :--- | :--- | :--- |
| May 30 | Fri | Registration for students not pre-registered |
| May 30 | Fri | Orientation for first-time graduate students $-2: 00$ p.m. |
| Jun 2 | Mon | Classes commence at 7:30 a.m. - late registration fee charged |
| Jun 3 | Tues | Last day to register or add courses to schedule |
| Jun 6 | Fri | Last day to withdraw and receive 80\% tuition refund |
| Jun 13 | Fri | Last day to drop courses without academic penalty |
| Jun 16 | Mon | Last day to withdraw and receive 50\% tuition refund |
| Jun 17 | Tues | Total balance due for students pre-registered for 2003 Summer Two |
| Jun 20 | Fri | Last day to withdraw or drop passing |
| Jun 23 | Mon | Thesis due in Graduate Office for review |
| Jun 27 | Fri | Final Examinations |

## SUMMER TWO TERM 2003

| Jun 17 | Tues | Total balance due for students pre-registered for 2003 Summer Two |
| :--- | :--- | :--- |
| Jun 30 | Mon | Registration for students not pre-registered <br> Jun 30 |
| Mon | Orientation for first-time graduate students $-2: 00$ p.m. |  |
| Jul 1 | Tues | Classes commence at 7:30 a.m. - late registration fee charged |
| Jul 2 | Wed | Last day to register or add courses to schedule |
| Jul 4 | Fri | Independence Day Holiday (no classes) |
| Jul 8 | Tues | Last day to withdraw and receive $80 \%$ tuition refund |
| Jul 16 | Wed | Last day to withdraw and receive $50 \%$ tuition refund |
| Jul 16 | Wed | Last day to drop courses without academic penalty |
| Jul 24 | Thurs | Last day to withdraw or drop passing |
| Jul 29 | Tues | Final Examinations |
| Aug 1 | Fri | Commencement $-7: 30$ p.m. |

## ADMISSION TO GRADUATE STUDY

Admission to the College of Graduate Studies involves two separate steps. First, applicants are admitted to graduate study; then they are admitted to a particular program. Applicants must meet general admission requirements of the College of Graduate Studies and specific requirements for each program. For general application procedures, see Application Procedures. For specific requirements of a particular program, see the appropriate program section of this Bulletin.

A student is admitted to and may be completing requirements for only one degree at a time.
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 recommended. Applications will be valid for a period of two years. Anyone wishing to reapply after the two-year period must complete a new application process.

Applicants who have submitted an application for the Master of Business Administration, the Master of Science in Nursing, and the Master of Science with a major in computer systems and software design degrees must submit all admission requirements prior to registration for course work.

Applicants who have submitted an application for admission to the College of Graduate Studies to pursue the Master of Arts, Master of Public Administration, Master of Science (other than with a major in computer systems and software design degree), or Master of Science in Education (other than with a major in reading specialist) may be permitted to enroll for one semester of graduate course work while completing all other general application procedure requirements. Until all application procedure requirements have been completed and the student is admitted to graduate studies, the student will not be allowed to register or preregister for subsequent semesters.

To apply for admission to the College of Graduate Studies, a prospective student must complete and return an "Application for Admission" to the College of Graduate Studies, Jacksonville State University, 700 Pelham Road North, Jacksonville, Alabama 36265-1602. A $\$ 20.00$ non-refundable application fee must accompany the application. Internet users are invited to visit the Jacksonville State University World Wide Web Page at http://www.jsu.edu. In addition to informational items, students may print an application for admission, complete and mail it via surface mail, or may apply for admission electronically by following the information as outlined under the Graduate Admissions section on the JSU Home Page.

## UNCONDITIONAL ADMISSION FOR THE MASTERS' PROGRAMS <br> AND GRADUATE CERTIFICATES

Applicants must possess appropriate undergraduate degrees from institutions accredited by the appropriate regional accrediting association.

Prior to unconditional admission to the College of Graduate Studies, and depending on the program of study to be pursued, applicants for the master's program must meet specified formula requirements.

Applicants for the Master of Arts, Master of Public Administration, Master of Science (other than those with a major in computer systems and software design), Master of Science in Education, and graduate certificates in emergency management, environmental science management, and spatial analysis and management must meet one of the following formula requirements:

450 times the undergraduate GPA plus the total score of verbal, quantitative, and analytical measures of the General Test of the Graduate Record Examination (GRE) is equal to or greater than a total of 2000 points;

OR
15 times the undergraduate GPA plus the Miller Analogies Test (MAT) score is equal to or greater than a total of 60 points;

Applicants for the Master of Business Administration must meet one of the following formula requirements:

200 times the undergraduate GPA on the initial undergraduate degree plus the Graduate Management Admission Test (GMAT) score is equal to or greater than a total of 950 points;

OR
200 times the undergraduate GPA on the last 64 hours attempted toward the completion of the initial undergraduate degree plus the GMAT score is equal to or greater than a total of 1000 points.

The GMAT must be taken within five years of enrollment.
Applicants for the Master of Science in Nursing must meet one of the following formula requirements:
450 times the undergraduate GPA on the initial undergraduate degree plus the total score of verbal, quantitative, and analytical measures of the General Test of the GRE is equal to or greater than a total of 2500 points;

## OR

15 times the undergraduate GPA on the initial undergraduate degree plus the MAT score is equal to or greater than a total of 80 points.

## OR

450 times the undergraduate GPA on the last 64 hours attempted toward the completion of the initial undergraduate degree plus the total score of verbal, quantitative, and analytical measures of the General Test of the GRE is equal to or greater than a total of 2500 points;

## OR

15 times the undergraduate GPA on the last 64 hours attempted toward the completion of the initial undergraduate degree plus the MAT score is equal to or greater than a total of 80 points.

The GRE or MAT must be taken within five years of enrollment.
Applicants for the Master of Science with a major in computer systems and software design must meet one of the following formula requirements:

450 times the undergraduate GPA on the initial undergraduate degree plus the total score of verbal, quantitative, and analytical measures of the General Test of the GRE is equal to or greater than a total of 2500 points;

## OR

200 times the undergraduate GPA on the initial undergraduate degree plus the GMAT score is equal to or greater than a total of 950 points;

## OR

450 times the undergraduate GPA on the last 64 hours attempted toward the completion of the initial undergraduate degree plus the total score of verbal, quantitative, and analytical measures of the General Test of the GRE is equal to or greater than a total of 2850 points;

200 times the undergraduate GPA on the last 64 hours attempted toward the completion of the initial undergraduate degree plus the GMAT score is equal to or greater than a total of 1000 points.

The GRE or GMAT must be taken within five years of enrollment.
For purposes of computing the undergraduate GPA, a 4.0 grade-point scale is used. The plus $(+$ ) and minus (-) grades from undergraduate transcripts are not used in calculating the GPA.

## CONDITIONAL ADMISSION FOR THE MASTERS' PROGRAMS <br> AND GRADUATE CERTIFICATES

Any applicant failing to meet the requirements for unconditional admission may be conditionally admitted with approval of the dean of the College of Graduate Studies. For programs of study other than the Master of Business Administration (M.B.A.), the Master of Science in Nursing (M.S.N.), and the Master of Science (M.S.) with a major in computer systems and software design, a student admitted on a conditional basis must attain a minimum GPA of 3.0 on the first 12 semester hours of graduate courses attempted. For conditional admission requirements, see page 58 for the M.B.A., page 168 for the M.S.N., and page 65 for the M.S. with a major in computer systems and software design.

## ADMISSION FOR <br> THE EDUCATIONAL SPECIALIST PROGRAM

Applicants for the Educational Specialist (Ed.S.) degree with a major in educational administration or a major in education with concentrations in early childhood education, elementary education, physical education, school counseling, secondary education, and special education must have a master's degree from a regionally accredited institution with a GPA of 3.25 on all previous graduate course work attempted.

Applicants must supply one official transcript from each postsecondary institution attended. Students who receive bachelor's degrees from JSU do not need to request a transcript from the University. The transcript will be automatically received once a student has filed an application for graduate studies.

Applicants must supply copies of all teaching certificates held.
Applicants must supply three "Graduate Reference Forms" completed by individuals who can provide qualitative assessment of applicant's potential for success in graduate course work. This form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm.

In addition, for all fields other than special education, the applicants must possess fifth-year teacher certification in the same area as the chosen concentration in the educational specialist program. Applicants selecting the concentration in special education (collaborative K-6 or collaborative 6-12) must possess fifthyear teacher certification in some area of education.

Applicants who have submitted an application for admission to the College of Graduate Studies to pursue the Ed.S. may be permitted to enroll for one semester of graduate course work while completing all other general application procedure requirements. Until all application procedure requirements have been completed and the student is admitted to graduate studies, the student will not be allowed to register or preregister for subsequent semesters. For additional information, see page 74 of this Bulletin.

## UNCONDITIONAL ADMISSION FOR THE EDUCATIONAL SPECIALIST PROGRAM

Unconditional admission requires a GPA of 3.25 on all previous graduate course work attempted.

Any applicant failing to meet the GPA requirement for unconditional admission may be conditionally admitted with approval of the dean of the College of Graduate Studies. A student admitted on a conditional basis must attain a minimum GPA of 3.25 on the first 12 semester hours of graduate courses attempted.

## CHANGE OF MAJOR OR CONCENTRATION

If, at any time, a student wishes to change from one major or concentration to another, the student must submit an updated "Application for Admission" to the College of Graduate Studies. The student must meet the admission and program requirements of the newly selected major or concentration as specified in the Bulletin current at the time the student is changing.

## APPLICATION PROCEDURES

## GRADUATES OF ACCREDITED INSTITUTIONS

All of the following documentation must be submitted to the College of Graduate Studies to be considered for admission as a first-time graduate student for the educational specialist or master's degrees:

1. Completed JSU application
2. Non-refundable $\$ 20.00$ application processing fee
3. Official transcript(s) from all postsecondary institutions attended. (Students who have previously attended JSU do not need to request a transcript from the University. It will be automatically received once a student has filed an application for graduate studies.)
4. Official test scores on the Graduate Management Admission Test (GMAT), General Test of the Graduate Record Examination (GRE), or the Miller Analogies Test (MAT). Students applying for admission to the M.B.A. program must submit scores on the GMAT. Students applying for admission to the M.S. with a major in computer systems and software design must submit scores on the GRE or GMAT. Students applying for admission to all other programs must submit scores on the GRE or MAT. (See the Admissions section of this Bulletin for specified formula admission requirements.)

Information regarding application for these tests may be obtained from the office of the College of Graduate Studies or by writing to the appropriate organization below.

Graduate Record Examination
Educational Testing Service
P.O. Box 6000

Princeton, NJ 08541-6000
Telephone: 609-771-7670
Graduate Management Admission Test
Educational Testing Service
P.O. Box 6103

Princeton, NJ 08541-6103
Telephone: 609-771-7330
Miller Analogies Test
The Psychological Corporation
555 Academic Court
San Antonio, TX 78204-3956
Telephone: 210-921-8802 or 800-622-3231
5. Copies of all teaching certificates held for all applicants applying to pursue either the Master of Science in Education, the Master of Arts with a major in music and a concentration in music education, the Master of Science with a major in counselor education with a concentration in school counseling, or the Educational Specialist for all concentrations except community agency counseling.
6. Applicants applying to pursue a degree in the area of reading specialist must submit a "Supplement EXP" form verifying completion of two years of teaching experience prior to registration for course work. Applicants should contact their superintendent's office/central office for completion of this form.
7. Three "Graduate Reference Forms" completed by individuals who can provide qualitative assessment of applicant's potential for success in graduate course work. This form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm.
8. If English is not the applicant's native language, the applicant is required to submit an official Test of English as a Foreign Language (TOEFL) score report. A minimum score of 500 on the paper-based or 173 on the computer-based TOEFL is required for admission. The TOEFL is not required for international students who have earned a bachelor's degree from a United States regionally accredited institution.

## GRADUATES OF UNACCREDITED INSTITUTIONS LOCATED IN THE UNITED STATES

Applicants who hold degrees from unaccredited institutions located in the U.S. must submit to the College of Graduate Studies all of the following documentation to be considered for admission:

1. Completed JSU application
2. Non-refundable $\$ 20.00$ application processing fee
3. Official transcript(s) from all postsecondary institutions attended
4. Certification of acceptance of degree by the deans of the graduate schools of three (3) regionally accredited public institutions in the state where the unaccredited institution is located. (For names of accredited public institutions, contact the College of Graduate Studies.)
5. Official test scores on the GMAT, General Test of the GRE, or the MAT. Rather than the formula requirements listed in the Admissions section of this Bulletin, applicants who hold degrees from unaccredited institutions located in the U.S. must earn a total score on the verbal, quantitative, and analytical measures of the General Test of the GRE equal to or greater than 1300 points or an MAT score of equal to or greater than 40 . Students applying for admission to the M.B.A. must submit GMAT scores and meet unconditional admission requirements, page 57. Students applying for admission to the M.S. with a major in computer systems and software design program must meet unconditional admission requirements, page 64. Students applying for admission to the Master of Science in Nursing (M.S.N.) must meet unconditional admission requirements, page 167.
6. Three "Graduate Reference Forms" completed by individuals who can provide qualitative assessment of applicant's potential for success in graduate course work. This form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm.
7. If English is not the applicant's native language, the applicant is required to submit an official Test of English as a Foreign Language (TOEFL) score report. A minimum score of 500 on the paper- based or 173 on the computer-based TOEFL is required for admission. The TOEFL is not required for international students who have earned a bachelor's degree from a United States regionally accredited institution.

## GRADUATES OF UNACCREDITED INSTITUTIONS LOCATED OUTSIDE THE UNITED STATES

Applicants, including all graduates of international institutions, who hold degrees from unaccredited institutions must submit to the College of Graduate Studies in one complete packet all of the following documentation to be considered for admission:

1. Completed JSU application
2. Non-refundable $\$ 20.00$ application processing fee
3. Official transcript(s) from all institutions attended. These official transcript(s) must be accompanied by English translation(s) and an Evaluation of Foreign Education Credentials (course x course evaluation)
prepared by an evaluator acceptable to the University. A list of these evaluators is included in the section on International Student Applicants, page 18.
4. International student financial assurance. International students must complete the "International Student Financial Statement," showing adequate financial resources are available to attend the university. This form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm. Federal financial aid is not available to international students.
5. Official test scores on the GMAT, General Test of the GRE, or the MAT. Rather than the formula requirements listed under the Admissions section of this Bulletin, applicants who hold degrees from unaccredited institutions must earn a total score on the verbal, quantitative, and analytical measures of the General Test of the GRE equal to or greater than 1300 points or an MAT score equal to or greater than 40 . Students applying for admission to the M.B.A. program must submit GMAT scores and meet unconditional admission requirements, page 57. Students applying for admission to the Master of Science with a major in computer systems and software design program must meet unconditional admission requirements, page 64. Students applying for admission to the Master of Science in Nursing (M.S.N.) program must meet unconditional admission requirements, page 167.
6. Three "Graduate Reference Forms" completed by individuals who can provide qualitative assessment of applicant's potential for success in graduate course work. This form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm.
7. If English is not the applicant's native language, the applicant is required to submit an official Test of English as a Foreign Language (TOEFL) score report. A minimum score of 500 on the paper-based or 173 on the computer-based TOEFL is required for admission.

## INTERNATIONAL STUDENT APPLICANTS

An international student is anyone who is not a U.S. citizen, or classified as a permanent resident of the United States. International students who seek admission to JSU must hold either a bachelor's degree from a regionally accredited U.S. institution or a degree equivalent to a bachelor's degree from a regionally accredited U.S. institution. International students must submit all of the following documentation to the College of Graduate Studies in one complete packet to be considered for admission:

1. Completed JSU application
2. Non-refundable $\$ 20.00$ application processing fee
3. Official transcript(s) from all institutions attended. These official transcript(s) must be accompanied by English translation(s) and an Evaluation of Foreign Education Credentials (course x course evaluation) prepared by an evaluator acceptable to the University. These evaluators are listed below:

[^0]www.icdel.com
Email: icd@icdel.com
International Education Evaluation, Inc.
363 Ridgewood Avenue
Charlotte, NC 28209

International Evaluation Service
(formerly Indo-Chinese Document Evaluation Translation)
P. O. Box 20348

Long Beach, CA 90801

World Education Services

Main Office
World Education Services
P.O. Box 745

Old Chelsea Station
New York, NY 10113-0745
Tel: 212-966-6311
Toll Free: 800-937-3895
Fax: 212-966-6395
E-mail: info@wes.org
Midwest Office
World Education Services, Inc.
P.O. Box 11623

Chicago, IL 60611-0623
Tel: 312-222-0882
Toll Free: 800-937-3898
Fax: 312-222-1217
E-mail: midwest@wes.org
Southeast Office
World Education Services
P.O. Box 01-5060

Miami, FL 33101
Tel: 305-358-6688
Toll Free: 800-937-3899
Fax: 305-358-4411
E-mail: south@wes.org
(Students who have previously attended JSU do not need to request a transcript from the University. It will be automatically received once a student has filed an application for graduate studies.)
4. International student financial assurance. International students must complete the "International Student Financial Statement," showing adequate financial resources are available to attend the university. This form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm. Federal financial aid is not available to international students.
5. Official test scores on the GMAT, General Test of the GRE, or the MAT. International students who have earned a bachelor's degree from a United States regionally accredited institution must meet formula requirements as listed in the Admissions section. Rather than the formula requirements listed in the Admissions section of this Bulletin, applicants who hold degrees from unaccredited institutions must earn a total score on the verbal, quantitative, and analytical measures of the General Test of the GRE
equal to or greater than 1300 points or an MAT score of equal to or greater than 40 . Students applying for admission to the M.B.A. program must submit GMAT scores and meet unconditional admission requirements, page 57. Students applying for admission to the M.S. with a major in computer systems and software design program must submit GRE or GMAT scores and meet unconditional admission requirements, page 64. Students applying for admission to the M.S.N. program must submit GRE or MAT scores and meet unconditional admission requirements, page 167.
6. Three "Graduate Reference Forms" completed by individuals who can provide qualitative assessment of applicant's potential for success in graduate course work. This form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm.
7. If English is not the native language, the applicant is required to submit an official Test of English as a Foreign Language (TOEFL) score report. A minimum score of 500 on the paper-based or 173 on the computer-based TOEFL is required for admission. The TOEFL is not required for international students who have earned a bachelor's degree from a United States regionally accredited institution.

Students accepted for admission will receive an I-20 and be permitted to register for classes. For information about the I-20, please contact the College of Graduate Studies, 256-782-5329. International students are required to carry health and repatriation insurance.

## APPLICANTS FOR TEACHER CERTIFICATION

All of the following documentation must be submitted to the College of Graduate Studies to be considered for admission as a first-time graduate student for educational specialist or master's level add-on teacher certification:

1. Completed JSU application
2. Non-refundable $\$ 20.00$ application processing fee
3. Official transcript(s) from all postsecondary institutions attended. (Students who have previously attended JSU do not need to request a transcript from the University. It will be automatically received once a student has filed an application for graduate studies.)
4. Copies of all teaching certificates held.
5. Applicants applying to pursue add-on certification in the area of reading specialist must submit a "Supplement EXP" form verifying completion of two years of teaching experience prior to registration for course work. Applicants should contact their superintendent's office/central office for completion of this form.
6. If English is not the native language, the applicant is required to submit an official Test of English as a Foreign Language (TOEFL) score report. A minimum score of 550 on the paper-based or 213 on the computer-based TOEFL is required for admission. The TOEFL is not required for international students who have earned a bachelor's degree from a United States regionally accredited institution.

## APPLICANTS FOR GRADUATE CERTIFICATE

All of the following documentation must be submitted to the College of Graduate Studies to be considered for admission as a first-time graduate student for the graduate certificate program in emergency management, environmental science management, or spatial analysis and management:

1. Completed JSU application
2. Non-refundable $\$ 20.00$ application processing fee
3. Official transcript(s) from all postsecondary institutions attended. (Students who have previously attended JSU do not need to request a transcript from the University. It will be automatically received once a student has filed an application for graduate studies.)
4. Official test scores on the General Test of the GRE, or the MAT. (See the Admissions section of this Bulletin for specified formula admission requirements.)
5. Three "Graduate Reference Forms" completed by individuals who can provide qualitative assessment of applicant's potential for success in graduate course work. This form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm.
6. If English is not the applicant's native language, the applicant is required to submit an official Test of English as a Foreign Language (TOEFL) score report. A minimum score of 500 on the paper-based or 173 on the computer-based TOEFL is required for admission. The TOEFL is not required for international students who have earned a bachelor's degree from a United States regionally accredited institution.

## NON-DEGREE STUDENT

A student who holds a bachelor's degree from a regionally accredited institution may enroll in graduate courses for professional development. All of the following documentation must be submitted to the College of Graduate Studies to be considered for admission as a non-degree seeking graduate student:

1. Completed JSU application
2. Non-refundable $\$ 20.00$ application processing fee
3. Official transcript(s) from all postsecondary institutions attended. (Students who have previously attended JSU do not need to request a transcript from the University. It will be automatically received once a student has filed an application for graduate studies.)
4. If English is not the native language, the applicant is required to submit an official Test of English as a Foreign Language (TOEFL) score report. A minimum score of 550 on the paper-based or 213 on the computer-based TOEFL is required for admission. The TOEFL is not required for international students who have earned a bachelor's degree from a United States regionally accredited institution.

If, at a later date, the student decides to pursue a degree at JSU, the student must petition, in writing, to the dean of the College of Graduate Studies, that the course(s) taken as a non-degree student be counted toward the degree.

## TRANSIENT STUDENT

A graduate student in good standing at a regionally accredited college or university may be admitted to JSU as a transient student. All of the following documentation must be submitted to the College of Graduate Studies to be considered for admission as a transient student:

1. Completed JSU application
2. Non-refundable $\$ 20.00$ application processing fee
3. A letter of good standing from the dean of the graduate school of residence or an official transcript from the graduate school of residence.

In addition, it is the student's responsibility to request that a JSU transcript be forwarded to the college of residence immediately upon completion of the course(s).

## ACCELERATED SENIOR PRIVILEGE

Accelerated Senior Privilege is offered for graduate courses in the College of Arts and Sciences. Accelerated Senior Privilege is not offered for graduate courses in the College of Commerce and Business Administration, College of Education and Professional Studies or the College of Nursing and Health Sciences.

A graduating senior may apply to the College of Graduate Studies for Accelerated Senior Privilege by submitting the following:

1. Completed JSU application
2. Non-refundable $\$ 20.00$ application processing fee
3. A verification form (available in the office of the College of Graduate Studies) completed by the certification officer of the college of the student's undergraduate major and submitted to the College of Graduate Studies which verifies the following:
A. The student holds a GPA of 3.0 in the undergraduate major;
B. The student is within six semester hours of completing undergraduate degree requirements; and
C. The student has passed the English Competency Examination.

In addition, the following restrictions are placed on accelerated senior privilege:

1. The student may take no more than six semester hours of graduate level courses prior to the completion of all undergraduate degree requirements;
2. The student will not be allowed to register for additional graduate level courses until all undergraduate degree requirements have been met. If undergraduate degree requirements are completed during the May or Summer I Term, a letter of verification from the certification officer in the college of the student's major must be received in the office of the dean, College of Graduate Studies, before the student will be eligible to register for additional graduate level courses;
3. The student must not exceed a total course load (undergraduate and graduate) of 13 semester hours in the Fall and Spring Semesters and 7 semester hours in the May, Summer I, and Summer II Terms;
4. The student must provide official test scores of the appropriate test (GRE or MAT) prior to the end of the semester of accelerated senior privilege enrollment; and
5. The student must provide three "Graduate Reference Forms" completed by individuals who can provide qualitative assessment of applicant's potential for success in graduate course work. This form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm.

Accelerated senior privilege will also be extended to graduating seniors at other colleges and universities, provided all the conditions specified are met.

## NONDISCRIMINATION Title VI, Civil Rights Act of 1964

Jacksonville State University has filed an Assurance of Compliance with the Federal Government that states that no person in the United States shall, on the ground of age, religion, 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 of the institution. This institution is committed not to discriminate against any person in its admission policies and practices or any other policies relating to treatment of students and other individuals, including 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 he, she, or any class of individuals has been subjected to discrimination may, individually or by a representative, file a written complaint with the United States Commissioner of Education or with this institution, or both.

## Section 504/American With Disabilities Act (ADA)

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 disability and no qualified disabled person shall, on the basis of disability, 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 assistance.

The coordinator of Section 504 and compliance officer for ADA is the Director of Disability Support Services, telephone 256-782-5093.

## PRIVACY RIGHTS OF STUDENTS

At least annually, the University notifies its eligible students of its policy on privacy rights of a student 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 students. 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 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 the 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 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 Associate Vice President for 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 Human Resources.
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 of his decision may be made immediately to the President of the University, who may notify the Records Grievance Committee, if appropriate.
3. Challenges of 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 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 parties 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. The University reserves the right to deny directory information.
b) Without the written consent of an eligible student, other education records shall not be made accessible to any party other than the following: Other University officials and teachers who have a legitimate education 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 of 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 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 of 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 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.
5. Release of Student Transcript:

In accordance with the Buckley/Pell Amendment to the Family Education Rights and Privacy Act, 1974, Jacksonville State University requires a signed letter of authorization or a signed JSU Transcript Request

Form, with the original signature of the student making the request, in order to release that student's transcript(s). Additionally, the signed request must include the name and address of the institution or individual who is to receive the transcript(s), and the appropriate payment for the transcript(s). FAX requests will be accepted with the inclusion of a Visa/Mastercard number along with the expiration date of the card in addition to the aforementioned information. FAX requests to (256) 782-5121. Transcripts may only be faxed to other institutions or potential employers. Transcripts may not be faxed to an individual due to the many questions of legal validity and real identity of the recipient of the FAX message. A transcript cannot be released to another individual without written authorization from the student. Telephone requests will not be accepted. Transcripts may be mailed directly to an institution or individual from the JSU Registrar's Office, issued directly to the student (stamped "ISSUED TO STUDENT"), or sealed in a JSU envelope (stamped "UNOFFICIAL IF ENVELOPE SEAL IS BROKEN"). Transcripts may NOT be released if the student account currently has a balance or special HOLD at the time the transcript request is processed. All accounts in the office of Student Accounts must be clear. Transcript requests received in the Registrar's Office will be processed in a timely manner. Any request that is held until semester grades are posted or until degrees are confirmed will be processed on the next business day after such occurrence. Payment must be made upon request, however, and all accounts must be clear at the time the transcript request is processed. Any transcript request received in the Registrar's Office without a proper signature or without appropriate payment will be returned to the student with instructions to resubmit the request with the appropriate inclusions. JSU reserves the right to alter, amend, or modify this policy at any time and will publish at least annually its policy on release and costs of student transcripts.

## SOCIAL SECURITY NUMBER

The student's social security number is confidential. The use of the social security number as the student number is voluntary. However, the Federal Taxpayer Relief Act of 1997 requires all institutions to report certain data using the social security number. Therefore, the social security number must be provided to Jacksonville State University in accordance with the legislation. Federal law requires that students who apply for financial aid must use their social security number as their student number. If the student desires not to use the social security number as a student number he/she may notify, in writing, the Registrar's Office 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. 522a).

## DISCIPLINARY POLICY

Jacksonville State University has both a right and an obligation to set reasonable standards of conduct for students who voluntarily and willingly choose to become members of the University community. In conjunction with its rights to set up reasonable standards, the University also assumes the right and accepts the responsibility to establish a system of judicial and disciplinary procedures to use when University policies have been violated. In turn, the University recognizes the need to insure that students have the right to due process and fair and equitable procedures in the event they are charged with a violation of University policies.

The authority which the University exercises in charging and disciplining students for violations of its regulations differs from the power exercised by civil authorities in prosecuting cases of general law. Whereas criminal courts often seek to punish or deter unlawful behavior, it is generally accepted the judicial proceedings at educational institutions are intended to impress upon individuals their responsibilities or, in the most severe cases, to remove by suspension or expulsion those who should not remain in the academic community. The federal courts have called discipline in academic settings part of the teaching/learning process. Much of the disciplinary procedure is authorized to be administered through the Student Government Association (SGA), but the University does maintain jurisdiction to prevent obstruction of its lawful mission, processes, and functions.

Specific University Judicial Policies are outlined in the Jacksonville State University Student Handbook. Registration as a student at the University implies that students will familiarize themselves with and adhere to these published policies, as well as other regulations which apply to a student's particular situation.

Students are expected to obey the laws of the United States, the State of Alabama and the City of Jacksonville. The Jacksonville State University Student Handbook is available on the Internet at http://www.jsu.edu/depart/handbook. A hard copy may be obtained from the Office of Student Affairs, 102 Bibb Graves Hall.

Jacksonville State University has adopted a Judicial System which depends largely on the participation of students and faculty. The University Judicial Coordinator has been designated as the supervising official for the Judicial System. Violations of University policies should be reported to the University Judicial Coordinator.

The Judicial Process is outlined as follows:

| Administrative <br> Disciplinary <br> Hearing - <br> University <br> Judicial <br> Coordinator | $\xrightarrow{\longrightarrow}$ | Associate <br> Vice <br> President for <br> Student <br> Affairs |  | SGA Judicial Court <br> 3 students 2 faculty Chairperson (non-voting) |  | President of the University (in case of Suspension or Expulsion) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## ALCOHOL AND DRUG ABUSE POLICY

Jacksonville State University hereby affirms its policy of providing a drug-free work place for its employees. In furtherance of this policy, the following guidelines and sanctions have been adopted.
A. Drug Use Policy -- Federal law prohibits the illegal manufacture, distribution, dispensing, possession, or use of a controlled substance in the work place. (The "work place" is defined as Jacksonville State University property, vehicles, or participation in a JSU sponsored activity away from campus.) It is the policy of JSU to comply totally with this law and in compliance will:

1. Provide each student and employee a copy of this policy
2. Require any student convicted of any criminal drug statute violation which has occurred in the work place to notify the University Judicial Coordinator within five (5) days of the conviction.
3. Require any faculty or staff member convicted of any criminal drug statute violation which has occurred in the work place to notify the Director of Human Resources within five (5) days of the conviction.
B. Legal Sanctions -- Legal sanctions for possession, use or distribution of illicit drugs and alcohol may include imprisonment for periods ranging from less than one year (for first offense) up to life imprisonment without parole (for multiple convictions) and fines ranging up to $\$ 500,000$.

## C. Health Risks:

Marijuana:

1. Use of marijuana reduces short term memory, motivation, concentration and attention span;
2. Infertility may be caused by the use of marijuana in both males and females;
3. Lung damage may result from use of marijuana;

## Cocaine:

1. Use of cocaine may lead to addiction;
2. Use of cocaine may cause permanent damage to the lungs, liver, and nose;
3. Chest pain, heart attack, heart failure, stroke, and seizures may result from the use of cocaine;

## Alcohol:

1. Uses of alcohol may lead to addiction;
2. Damage to the liver, brain, heart, and other organs may result from long-term drinking;
3. Harm may occur to babies whose mothers use/abuse alcohol during pregnancy (Fetal Alcohol Syndrome);
4. Abuse of alcohol can lead to overdose and death;
5. Mixing alcohol with other drugs (legal and illicit) may intensify the effects of either, making overdose more likely;
Use of drugs and/or alcohol causes impairment of judgment and motor skills which greatly increases the risks of injury or death due to accidents.

## D. Drug Awareness, Counseling, and Treatment:

The Counseling and Career Services offers counseling and therapy to all students, faculty, and staff at Jacksonville State University. These services are without charge. These services include intervention and short- and long-term supportive therapies. Referrals may also be made to the Calhoun-Cleburne Mental Health Center or to a facility approved under our health insurance plan.

Faculty and staff members may contact the Office of Human Resources to obtain additional information concerning counseling and treatment available through our health insurance plan.

## E. Institutional Sanctions:

1. Students who violate this policy will be subject to disciplinary action up to and including dismissal from the University.
2. Employees who violate this policy will be subject to disciplinary action up to and including discharge. If you are charged by your immediate supervisor with an offense which may result in discharge, your case will be referred to the next level of supervision and your immediate discharge may be recommended and/or effected immediately. If discharged, you will not be entitled to accrued annual leave, and this action will become a part of your employment record.

## SEXUAL HARASSMENT POLICY

## General Policy

It is the established policy of Jacksonville State University to provide a work and study environment for faculty, staff, and students free from all forms of sexual harassment, intimidation, and exploitation.

## Definitions

The Equal Employment Opportunity Commission's guidelines define sexual harassment as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature when:

1. Submission to the conduct is made a condition of employment or admission of an applicant;
2. Submission to or rejection of the conduct is made the basis for a personnel action (recommendation for promotion or tenure) or grades;
3. The conduct seriously affects an employee's or student's performance or creates an intimidating, hostile, or offensive work or study environment.

## Informal Procedures

Classified staff members, permanent or temporary, should feel free to discuss sexual harassment problems or allegations directly with their immediate supervisors or the next level supervisor and ultimately with the appropriate vice president or director. If they prefer, they may bring their complaint alleging sexual harassment to the University Affirmative Action Officer (AVPSA) or to a staff member of the University's Office of Human Resources for informal discussion. The person making the complaint may request to discuss the matter with a representative of her/his own sex. A complainant should present the complaint as promptly as possible (preferably within thirty working days of the occurrence) in order to leave open the possibility of using the formal grievance procedure, if necessary.

If requested, complaints will be held in confidence, and counseling will be provided. No investigation or action against the accused person will be taken on behalf of the person complaining, unless the complainant consents to be identified, if necessary, to the individual accused in connection with the investigation.

Faculty members may discuss their complaint with their department head, dean, or ultimately the Vice President for Student and Academic Affairs, if the situation has not been resolved to the satisfaction of the complainant. If they prefer, they may take their complaint to the University Affirmative Action Officer or to the Director, Human Resources. To keep open the option of using the formal grievance procedure, they must initiate informal discussion within thirty workdays after the event in question or within thirty workdays after they learn of its occurrence and become familiar with the contents of Policy I:02:04 (Grievance Procedure).

The person making the complaint may request to discuss the matter with a representative of his/her own sex. If requested complaints will be held in confidence and counseling will be provided. No investigation or action against the accused person will be taken on behalf of the person complaining, unless the complainant consents to be identified, if necessary, to the individual accused in connection with the investigation.

Students and student employees alleging sexual harassment by a faculty member, classified staff member, or student employee should follow the policy set forth in the current Student Handbook.

## Formal Procedures

Faculty members and classified staff alleging sexual harassment may elect to follow the grievance procedure outlined in University Policy No. I:02:04, Grievance Procedure.

Students should follow the policy set forth in the Student Handbook.

## ACADEMIC REGULATIONS AND PROCEDURES

## GRADING SYSTEM

The following grades are given in graduate courses:
A Four quality points per credit hour
B Three quality points per credit hour
C Two quality points per credit hour
The maximum number of hours of C grades permitted to count toward a master's or educational specialist degree is six semester hours. If a student earns a grade of C on more than six semester hours of course work, the student should consult the dean, College of Graduate Studies, for advisement.
F Failing-Zero quality points
P Passing - grade given for thesis hours, and other selected courses as specified in the course descriptions in this Bulletin. The grade of P does not affect the GPA. The grade of F on a pass or fail course is computed as a regular F grade.
I Incomplete - Zero Quality Points
An instructor may award an incomplete grade to a student who is otherwise passing and who, for legitimate reasons, is unable to complete the prescribed work. An incomplete grade must be removed within the next semester of enrollment or within 12 months, whichever occurs first. An incomplete is calculated as an F in the GPA until the incomplete grade is removed. For purposes of determining the next term of enrollment, only fall and spring semesters will be counted. It is the student's responsibility to contact the instructor and complete the required course work within the specified time. The student will be notified in writing by the Registrar's Office as soon as the incomplete has been removed. In extenuating circumstances, a student may be granted an extension. Such a request must be approved by the instructor, the department head, and be submitted to the dean, College of Graduate Studies, for a final decision at least three weeks before the time limit expires. This "Incomplete Grade Extension Request" form is available from the office of the College of Graduate Studies, 121 Curtiss Hall, or online at http://www.jsu.edu/depart/graduate/forms. If the grade of incomplete is not removed within the prescribed time period, the incomplete will be converted to a grade of F with zero quality points.
NC No Credit - When a grade of incomplete is not applicable, the no credit (NC) grade may be given to a student who is otherwise passing but who is unable to complete a course due to circumstances beyond the student's control. An NC grade is not calculated in the student's GPA. A grade of NC must be approved by the dean, College of Graduate Studies.
WF Withdraw Failing - Will be counted as a grade of F with zero quality points
WP Withdraw Passing - Zero quality points
X Audit - No credit

## SCHOLASTIC AVERAGE

A graduate student's overall GPA is calculated on graduate level courses only. The GPA is determined by dividing the quality points earned by the number of hours attempted. The GPA is not rounded. For reporting purposes, the GPA is truncated to two places past the decimal. A graduate student enrolled in a master's program (degree, add-on teacher certification, or graduate certificate) must maintain an overall GPA of 3.0 on a 4.0 scale in graduate courses attempted. The GPA requirement for students enrolled in the educational specialist and fifth year add-on program in educational administration is 3.25 . A student whose GPA falls below the required minimum will be placed on probation and must establish good standing within the next semester of attendance. For purposes of this regulation, the terms from May through August (i.e., May, Summer I, Summer II and marathons) are collectively considered one semester. Any student not attaining the required minimum cumulative GPA at the end of the first semester of enrollment after being placed on probation will be dropped from graduate study.

Transfer credit cannot be used to raise the GPA of JSU course work to the required minimum GPA of specified majors, add-on teacher certification, or graduate certificate programs.

A student seeking the M.S.Ed. with a major in secondary education is required to have a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

The maximum number of hours of C grades permitted to count toward a master's or educational specialist degree is six semester hours. If a student earns a grade of C on more than six semester hours of coursework, the student should consult the dean, College of Graduate Studies, for advisement.

All course work attempted, including duplications, will be calculated in the GPA.

## MID TERM/FINAL GRADES

At mid term a grade report is sent to students who currently have a grade of F in any class. Mid-term grades are reported for Fall and Spring Semesters only. This report is delivered to the student's campus P.O. Box or may be accessed for a limited time via the In-Touch system or the Internet. Students must have their personal identification number (PIN) to access grades. Final grades are mailed to the present mailing address or may be accessed the same as mid-term grades.

## APPEALS PROCESS

When a student has been dropped from graduate study for failing to meet scholastic or other degree requirements, the student may appeal for readmission. Procedures for the process of petitioning for readmission are available in the office of the College of Graduate Studies, 121 Curtiss Hall.

## DEGREE REQUIREMENTS

The minimum degree requirements are listed by program.
At least one-half of the graduate courses for the master's degree must be at the 500 level. All course work for the Ed.S. must be at the 500 and 600 level. Individual programs may limit the number of hours of 400G course work which may be counted for the degree. See the individual programs for these limits.

## GRADUATE COURSES

Graduate courses are numbered at the following levels: 400G; 500; and 600. Courses at the 400 level with a suffix of $G$ are also offered at the undergraduate level. A student who has taken a 400 level course as an undergraduate may not take the course again at the 400 G level for graduate credit. Graduate courses numbered 400 G and 500 are limited to students who hold a bachelor's degree. At least one-half of the graduate courses for the master's degree must be at the 500 level. Individual programs may limit the number of hours of 400 G course work which may be counted for the degree. See the individual programs for these limits. All course work for the Ed.S. must be at the 500 and 600 level.

Students pursuing the Ed.S. degree may not count 400G level courses toward the degree.
Courses at the 600 level are offered only to students who hold the master's degree.
The course descriptions are provided in each program section listed alphabetically in this Bulletin. The number in parentheses following the course title indicates the graduate semester hour credit value of the course. Prerequisites, if any, are listed at the end of the course description.

## 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 completed at JSU or at other colleges or universities. However, all work attempted, including duplications, will be calculated in the GPA.

## TRANSFER OF GRADUATE CREDIT

Transfer credit from other institutions will appear on the JSU transcript only if used to fulfill degree completion and teacher certification requirements.

The number of semester hours of graduate credit that may be transferred from a regionally accredited institution to JSU toward a graduate degree program is limited to the following maximums:
six hours toward a 30 semester hour program;
nine hours toward a 33 semester hour program; and
12 hours toward a program of 36 or more semester hours.
Evaluation of transfer credit is made by the appropriate department of the student's major and approved by the dean, College of Graduate Studies. A student intending to enroll at another institution and transfer a course(s) to JSU, must receive approval of the course work prior to enrolling in the course to insure the course will be accepted for inclusion in the student's program of study.

Transfer credit cannot be used to raise the GPA of JSU course work to the required minimum GPA of specified majors, add-on teacher certification, or graduate certificate programs.

For the secondary education major, a student may transfer no more than three hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field(s). Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Only graduate courses with grades A, B, P, and S may be transferred to JSU. Grades of C or below will not be eligible for transfer.

Transfer credit must meet time limit requirements.
There are two steps in the procedure for transferring credit. First, a student must complete a "Transfer Credit Request Form" listing the transfer course(s) and return the form to the College of Graduate Studies. This "Transfer Credit Request Form" is available from the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms. Second, the student must request that an official transcript from the institution at which the credit was earned be sent directly to the College of Graduate Studies at JSU and supply the current course description(s) for any course(s) listed for transfer. It is the responsibility of the student to assure that the transcript has been received.

## SECOND MASTER'S DEGREE

Students seeking a second master's degree must meet the admission, time limit, and graduation requirements for the second master's degree program. A comprehensive examination is required for the second master's degree.

A student is permitted to apply credit earned from one master's degree toward an additional master's degree at JSU. Such permission is granted at the discretion of the dean, College of Graduate Studies. It is the student's responsibility to apply for this credit from the first master's. The total amount of credit applied from a previously earned graduate degree at JSU and external transfer credit combined is limited to the same maximums as transfer credit that are specified in the section of Transfer of Graduate Credit, page 30.

## SECOND CONCENTRATION

Students may elect a second concentration in certain majors. If all requirements for each concentration have been completed prior to award of the degree, the comprehensive examination will cover course work for both concentrations and each concentration will be noted on the student transcript. After completing a degree with one concentration, a student may elect to return to JSU to complete an additional concentration. In this case, the concentration will not appear on the transcript. At the request of the student, a letter of verification will be written by the dean, College of Graduate Studies, certifying that the requirements for a second concentration have been met.

## MILITARY EDUCATION CREDIT

Credit may be awarded for completion of selected military service schools and courses utilizing the Guide to the Evaluation of Educational Experiences in the Armed Services (ACE Guide). However, credit is not awarded at the graduate level for MOS exhibits. The total amount of credit awarded for military educational experiences and transfer credit combined is limited to the same maximums as transfer credit that is specified in the section on Transfer of Graduate Credit of this Bulletin. Procedures for the evaluation of military service schools and courses are available in the office of the College of Graduate Studies, 121 Curtiss Hall.

## TIME LIMIT ON DEGREE COMPLETION

Only approved credit including transfer credit earned during six calendar years (from completion of the first course requirement of the program to completion of the last program requirement) will be counted toward a graduate degree. This regulation applies to credit earned at JSU and all transfer credits from other institutions

## BULLETIN REQUIREMENTS AND TIME LIMITS

Degree requirements and other university regulations are established by the Bulletin current at the time of initial enrollment. Any student not completing all degree requirements within the time limit of six calendar years will lose entitlement to follow the Bulletin of initial enrollment.

Students may complete requirements under the Bulletin current at the time of initial enrollment or may elect to follow any later Bulletin during the six-year time limit to degree completion.

## FULL-TIME/HALF-TIME STUDENT CLASSIFICATION

A graduate student's classification is determined by the number of graduate semester hours for which the student is enrolled in a given semester or term.

The following are the minimum graduate semester hours for full-time and half-time student classification:

| Semester/Term | Full-Time | Half-Time |
| :--- | :---: | :---: |
| Fall Semester | 9 | 6 |
| Spring Semester | 9 | 6 |

These classifications apply to all financial aid programs, including VA benefits, and to other programs, such as insurance. For VA benefits only, three-quarter time may apply for seven or eight graduate hours in the Fall and Spring Semesters.

Financial aid classifications, including VA benefits, for the summer sessions are computed annually. For information about summer financial aid classifications, please contact the Financial Aid Office, 107 Bibb Graves Hall, (256)782-5006. For classifications for VA benefits, please contact the Veteran's Affairs Office, 101 Bibb Graves Hall, (256)782-5892.

## REGISTRATION

All students must register before being admitted to classes. The procedure for registering is outlined in the Class Schedule. The appropriate academic advisor and other members of the faculty advise students in regard to their programs of study as outlined in this Bulletin. Students may register on campus in the college of their major, through the IN-TOUCH telephone registration system, or online through the Internet using the Student Access System.

Students registering after formal registration will be charged a $\$ 30.00$ late registration fee. Students will be responsible for class work from the first class meeting and will incur absences for classes missed.

## MAXIMUM STUDENT LOAD

The maximum course load for a graduate student is 13 semester hours during the Fall or Spring Semesters. Any exception to this regulation must be approved by the dean, College of Graduate Studies.

The maximum course load for a graduate student is seven semester hours during the May, Summer I, and Summer II Terms. There is no exception to this regulation.

## CLASS ATTENDANCE

The University expects every graduate student to attend all scheduled class meetings for courses in which the student is enrolled. Each instructor's policies and procedures on absences and make-up work are announced at the beginning of the term. The student is directly responsible to the individual instructor for absences and for making up work missed.

## AUDITING COURSES

A person not regularly enrolled in the University may audit courses with the approval of the department head.

Auditors must apply for admission and pay the $\$ 20.00$ non-refundable application fee as well as the $\$ 25.00$ per semester hour fee. Auditors are listed on the class roll but do not participate in classroom discussion, take tests or final examinations, or make reports, and will receive no credit or grade.

Graduate students taking at least three hours for credit may audit courses without payment of an audit fee. Permission of the instructors concerned must be secured.

Auditors are bound by the same attendance policy as other members of the class.
Once a student registers in a course as an auditor, the status of audit may not be changed to that of credit.

## THESIS OPTIONS AND PROCEDURES

There are two options of graduate study for most degree programs at JSU, the Non-Thesis Option and the Thesis Option. A student is awarded six semester hours graduate credit for a successfully completed thesis. The requirements for individual degree programs are listed under "Minimum Requirements For Degree" in each program section.

When a student selects the Thesis Option, a three-member Thesis Committee is appointed by the department head in the student's major field and approved by the dean, College of Graduate Studies. One member of this committee is to be designated as the student's major professor.

Before enrolling in the first three semester hours of thesis work, a student choosing the Thesis Option must have the "Thesis Option" form approved by the student's Thesis Committee and the dean, College of Graduate Studies. The "Thesis Option" form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm. Prior to completing the first three semester hours of thesis, a student must have a "Prospectus for Thesis" form approved by the student's Thesis Committee and the dean, College of Graduate Studies. The "Prospectus for Thesis" form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm. Guidelines for preparation of a proposal and thesis are provided in the Thesis Guide available in the office of the College of Graduate Studies, 121 Curtiss Hall.

Only three hours of thesis course work may be taken in a semester.
An oral defense of the thesis is required. After the successful oral defense of the thesis, the student must submit a final copy for approval by the dean of the College of Graduate Studies and pay a binding fee. Submission of the final thesis must be made at least one week before the beginning of final examinations for the semester or term in which the degree is to be conferred. The student will receive a grade of Pass ( P ) or Fail (F) for the completed thesis.

## RESIDENCY

All graduate students who are pursuing a degree must complete 24 semester hours of graduate credit at JSU. In addition, students in the Ed.S. program must successfully complete one or more courses during two consecutive terms of enrollment.

## CANDIDACY

Students become degree candidates when they enroll in the last semester or term of course work and apply for the degree/comprehensive examination by completing the "Application for Comprehensive Exam/Degree" form. This form is available in the office of the College of Graduate Studies, 121 Curtiss Hall, or online at http://www.jsu.edu/depart/graduate/forms.htm.

## COMPREHENSIVE EXAMINATION

A comprehensive examination (oral, written, or oral and written) is required of all candidates for the educational specialist degree, master's degree and add-on teacher certification. The specific type of examination to be given is determined by each individual department. In preparation for the comprehensive examination, candidates should contact their academic advisor.

The comprehensive examination is to be scheduled during the semester in which the student is enrolled in the last course(s) needed to complete the degree or certification. The "Application for Comprehensive Exam/Degree" form must be filed in the office of the College of Graduate Studies by the dates listed for each semester in the University Calendar of this Bulletin. This form is available in the office of the College of Graduate Studies, 121 Curtiss Hall, or online at http://www.jsu.edu/depart/graduate/forms.htm.

The student will be notified of the time and location of the examination by the chairman of the Comprehensive Examination Committee at least seven days before the date of the examination. The student will be examined on course content and knowledge of the field of study. It is the student's responsibility to meet with each member of the Comprehensive Examination Committee to receive guidelines in preparation for the examination.

If, after applying, the student elects not to take the comprehensive examination, the student must submit a written request to the office of the College of Graduate Studies to withdraw the application for the current semester.

If the student fails the comprehensive examination, the student must petition the dean, College of Graduate Studies, for the privilege of taking a second comprehensive examination. Procedures for this process are available in the office of the College of Graduate Studies.

The comprehensive examination may be repeated only once. A student will be dropped from graduate study after two unsuccessful attempts to pass the examination.

## APPLICATION FOR GRADUATION

Graduate students must file the "Application for Comprehensive Exam/Degree" form in the office of the College of Graduate Studies. The due dates for the application for each semester are listed in the University Calendar of this Bulletin. Students who fail to file the application for graduation by the listed date risk having their graduation delayed until the next regularly scheduled graduation. This form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm.

Students who are unsuccessful candidates for a specific graduation date must contact the College of Graduate Studies regarding the procedure for re-applying for another graduation date.

## STUDENT OUTCOMES ASSESSMENT

To assess and improve its academic programs, the University must obtain periodic measurements of student perceptions and intellectual growth. As a requirement for graduation, every student shall participate in one or more assessment procedures. These procedures include survey questionnaires and examinations in general education and/or in the major field of study. The information obtained through these assessment procedures is used solely to improve the quality of the educational experience for future generations of JSU students.

For further information about assessment procedures, students should contact the Office of Assessment, B26 Curtiss Hall.

## STUDENT'S RESPONSIBILITIES

All students are held responsible for meeting the requirements for graduation as stated in this Bulletin. Students who have questions should contact the office of the College of Graduate Studies.

## ACADEMIC AND STUDENT SERVICES

## ACADEMIC CENTER FOR EXCELLENCE

Academic Center for Excellence (ACE) enhances student academic success and persistence from entrance through graduation. ACE develops student academic skills; student adjustment to college; student/faculty/staff appreciation of cultural diversity; faculty/staff pedagogy and student-centered skills; and intrusive academic advisement. ACE services are divided into two areas: Encouragement Advising, comprised of Counseling and Career Services, Disability Support Services, and Orientation, Advisement Services; and Learning Assisting, comprised of Learning Services and Supplemental Learning Services.

## UNIVERSITY BOOKSTORE

The University Campus Bookstore is located on the second floor of the Theron Montgomery Building. Students may purchase books and supplies at the University Bookstore including new and used books, school and office supplies, clothing and gifts, software, and study guides.

Textbook buy back days are scheduled for the week of finals at the end of Fall, and Spring Semesters. Extended operating hours are offered for convenience of evening students.

## CAREER PLACEMENT SERVICES

Career Placement Services (CPS) provides employment assistance to graduating seniors and alumni through on-campus interviews, job listings, career fairs, referrals, computer resources, and corporate information. CPS also coordinates cooperative education experiences and provides ancillary services such as mock interviews and assistance in resume writing. Additional information about CPS is available at (256) 782-5482.

## THE FCS CHILD DEVELOPMENT CENTER AT JSU

The Center is operated by the Department of Family and Consumer Sciences. Applications are accepted for children ages three to four years. Fees are due before classes begin and are paid directly to the JSU Bursar's Office. Fees per child are $\$ 250.00$ for the Fall Semester, $\$ 250.00$ for the Spring Semester, and $\$ 80.00$ for the May Term. The Center is open from 7:15 a.m. to noon, Monday through Friday when JSU classes are in session.

## COMPUTER SERVICES

The University has an extensive network of computer resources providing access to the Internet, the JSU mainframe network, and the Alabama Research and Education Network. Academic Computing labs are located throughout the campus and are available to all currently enrolled students. E-mail accounts and limited dial-up Internet access are also available from Academic Computing and Network Services.

## COUNSELING AND CAREER SERVICES

Counseling and Career Services (CCS) offers personal, educational, and career counseling for JSU students. Personal counseling is conducted in a private setting under the strictest confidence. Counselors are available on an individual or group basis. CCS features a comprehensive career library, on-line computer resources for making vocational and educational decisions, and is the registration site for CLEP, ACT, MAT, and other examinations. The office is open Monday through Friday from 8:00 a.m. to 4:30 p.m. Additional information about the Counseling Center is available at (256) 782-5475.

## DINING FACILITIES

The University Dining Service provides a variety of flexible meal plans to meet student needs. These plans are available for both resident and non-resident students. There are two dining facilities on campus; the

Jack Hopper Dining Hall and the Food Court located in the Theron Montgomery Building. Meals can be purchased in both locations on a cash basis. University Dining Services also provides catering services both on and off campus.

For additional information concerning the dining program or catering, contact Dining Services, Jack Hopper Hall, (256) 782-7242.

## DISABILITY SUPPORT SERVICES

Disability Support Services (DSS) provides academic support services to all students who qualify under Section 504 of the Rehabilitation Act as amended. According to that section, the term "handicapped individual" means "any person who has a physical or mental impairment which substantially limits one or more of such person's major life activities." Learning is considered a major life activity.

DSS serves as the gateway for qualifying students in the provision of accommodations and modifications as delineated by law. This service coordinates interpreting and CART for the Deaf, readers for the blind, and maintains basic adaptive technology.

Section 504 and the American with Disabilities Act (ADA) require that each otherwise qualified disabled student have reasonable access and accommodations to a postsecondary education. It is the specific goal of DSS to remove barriers and equalize opportunities for the qualified disabled individual through education and career preparation. DSS is part of an integrated academic program. Students normally attend classes and participate in programs alongside all non-disabled University students. Upon request, each qualified disabled student develops a plan with the DSS staff for reasonable accommodations.

DSS engages in a variety of roles. In some instances, DSS coordinates or makes referrals to support personnel (e.g. interpreters, notetakers, tutors, readers, scribes). In others, it acts as a facilitator to network with existing University programs that already provide the needed service. DSS also provides programming for students who are hearing impaired by offering specific transitional coursework.

Support services provided through the Program facilitate the disabled student's integration into the University setting. DSS staff, consisting of trained professionals, work with the University staff and faculty to provide inservice and assist instructors in modifications or adaptations necessary for each student. Some technical aids and equipment are available through DSS. DSS works to remove the unfair barriers that prevent students from attaining the objectives of their course work.

The DSS office is located on the third floor, Theron Montgomery Building. The DSS telephone number is (256) 782-5093 V/TT.

## DISTANCE EDUCATION

Jacksonville State University strives to meet the needs of all students. Distance Education enhances this capability by utilizing the ever-expanding set of technological tools to reach students who may before have been unable to participate in the college environment. With alternative media such as videoconferencing and online courses, students from all walks of life can participate in a college environment while continuing with busy work and personal schedules. The greater flexibility in scheduling provided by Distance Education courses allows JSU to draw students from all areas of society. These courses provide students with the education and tools that they need to reach their goals whether these goals are professional or personal. Distance Education provides an outstanding level of education to every student.

## Online

In meeting the needs of the 21 st century, Jacksonville State University is committed to offering courses for online distribution. A growing number of graduate and undergraduate courses and programs are being offered through web-based courses. Convenient to students who are unable to travel to JSU's main campus, online courses save time and travel expenses. Major examinations are administered on campus, but special proctoring arrangements may be made for those who live too far from the main campus. Students communicate with their instructors through e- mail, threaded discussions, and live chats. Regular JSU tuition rates apply to courses offered through the Internet.

## Videoconferencing

Jacksonville Sate University brings teleconferencing experiences to the students of Northeast Alabama and West Georgia. Videoconferencing is ideal for commuting students, allowing them to save valuable time
for course work that otherwise would have been spent driving to class. Instead of traveling to JSU, students can attend class at Marshall County Technical School, JSU-Gadsden, Bevill Manufacturing Technology Center in Gadsden, Oxford High School Learning Resource Center, Snead State Community College, Northeast Alabama Community College, Cherokee County Career and Technology Center, and the Joe Ford Center in Gadsden as well as many locations in Georgia. Videoconferencing allows for live interactive communication to any point in the world using combined television and computer technologies. The format encourages students to actively participate with their instructors and other class members at distant locations.

## Telecourses

Courses are also offered through a combination of videocassette and limited on-campus class meetings. Telecourses may combine televised lessons with on-campus study sessions, textbooks, reading assignments, and laboratory opportunities.

It should be noted that students cannot receive financial aid from two institutions at the same time. For further information about distance education, students should contact the Department of Distance Education by phone at (256) 782-8172 or toll free at 1-800-231-JAX1, extension 8172. Internet users are invited to visit Jacksonville State University's Distance Education World Wide Web home page at http://www.jsu.edu/depart/distance.

## STUDENT HEALTH CENTER

The Williams Student Health Center is a primary care facility providing out-patient medical services as well as promoting preventive health measures. Services include health education, health screening, treatment of short-term illnesses, emergency first aid, physical examinations, allergy injections, and family planning. Medications are available through physician's dispensing.

The Student Health Center is located between Sparkman Hall and Mason Hall. Office hours are Monday through Friday, 8:00 a.m. to 4:30 p.m. Please call for an appointment at 256-782-5310.

Excuses - The Student Health Center does not routinely provide class absence excuses. Documentation of Health Center visits is provided by an attendance slip given to each student upon request.

## DEPARTMENT OF UNIVERSITY HOUSING AND RESIDENCE LIFE

The Department of University Housing and Residence Life is committed to serving a diverse population of the Jacksonville State University community. The primary goal of the Department and its staff is to provide students with the best possible housing accommodations at the most reasonable cost. Additionally, the staff is committed to enhancing the educational process of residents through a meaningful group-living experience.

The Department of University Housing and Residence Life operates and maintains 7 residence halls and 236 apartment units which accommodate approximately 1400 residents.

To be eligible to live in University Housing, a graduate student must be enrolled at Jacksonville State University for a minimum of three semester hours.

For current housing fees, see the Financial Fees and Policies section of this Bulletin.
For additional information concerning student housing, please contact the Department of University Housing and Residence Life, Room 117 Bibb Graves Hall, (256) 782-5122.

## STUDENT ID CARDS

Student ID cards are made during specific times posted each semester. There is a charge for replacing a lost or stolen student ID card. This service is located on the 2nd floor, Theron Montgomery Building, telephone (256) 782-5552.

## INSTRUCTIONAL SERVICES UNIT

The Instructional Services Unit (ISU) is a division within the College of Education and Professional Studies that provides a variety of support services. It consists of the Teaching/Learning Center (T/LC), Learning Resource Center (LRC), and the Multimedia Instructional Laboratory (MIL).

The T/LC is an on-campus, free tutorial service to both city and county school students in grades K12. The ISU offers teachers-in-training an opportunity to gain practicum experience through the T/LC inhouse laboratory tutoring program. Preservice teachers and children are exposed to the latest technology and strategies including the Internet.

The LRC provides educational materials and equipment to teachers currently employed in the public schools, undergraduate and graduate students in education, and JSU faculty. The materials include: instructional games, kits, books, computer programs, and audiovisuals. A wide variety of subjects are represented in the Center including: reading, language, mathematics, social studies, science, health, perceptual motor, special education, and social-emotional development. Most of the items are available for short-term checkout. Additionally, the Center offers media preparation services such as laminating, copying, letter cutting, and transparency making. Word processing, on-line and Internet access are available to students, faculty, and the community through the LRC.

The MIL is the third unit of the ISU. Multimedia computers, located in a computer lab convenient to both students and faculty, include up-to-date technological hardware and software such as videodisks, DVDs, and CD-ROMS. These services insure that students are exposed to the latest available technology.

## INSURANCE

The SGA sponsors a health, injury, and major medical insurance program underwritten by the Mid-West National Life Insurance Company of Tennessee. All registered students and their dependents are eligible to enroll in this insurance plan. For further information, contact the Office of Student Activities, 402 Theron Montgomery Building, (256) 782-5491.

## INTERNATIONAL PROGRAMS AND SERVICES

The Office of International Programs and Services provides support in three general areas dealing with international education. It provides services to international students who attend the University. These services include: assistance in making the adjustment to life in the United States; orientation to the University and the JSU community; proper maintenance and renewal of student immigration status; and promotion of opportunities to experience and enjoy American culture and the unique opportunities of JSU.

The Office provides support to JSU students who study abroad and for faculty exchange programs. Students interested in study abroad are given information on opportunities and assistance in their study plans. University faculty interested in participating in exchange programs are also provided with information and assistance. Visiting faculty from universities abroad are provided with support during their stay on the campus.

The Office provides support for international activities in the University, including the international content in the curriculum. Cultural activities, student organizations, and student activities with an international content are supported.

Persons wishing additional information about the Office of International Programs and Services are encouraged to call (256) 782-5674, or visit the office on the second floor of the International House.

## JACKSONVILLE STATE UNIVERSITY IN GADSDEN

Jacksonville State University provides outreach educational opportunities for students in its service population at its off-campus site in Gadsden. Jacksonville State University in Gadsden provides junior and senior level undergraduate courses and graduate courses in the Joe M. Ford Center on the campus of Gadsden State Community College. Drawing students primarily from Etowah County and the counties adjacent to it, JSU-Gadsden schedules mostly late afternoon and evening classes tailored to meet the needs of working adults. Course offerings are available for students who want to earn a degree, advance occupationally, and prepare for productive roles in society. The calendar for JSU-Gadsden is the same as the University calendar, and all University policies and regulations apply.

For information about JSU-Gadsden call (256) 549-8390, FAX 1-256-549-9739, write to Jacksonville State University in Gadsden, Joe M. Ford Center, Room 113, PO Box 227, Gadsden, Alabama 35902, or visit the office in Room 113, Joe M. Ford Center, Gadsden State Community College.

## LIBRARY

The Houston Cole Library, named for JSU's seventh president, is the academic hub of the campus, providing outstanding print and non-print resources to the students and faculty, as well as the local community and Northeast Alabama. The Library houses an outstanding collection of materials, with 645,311 cataloged volumes. Subscriptions include 1,334 print titles and $100+$ electronic databases. Many of the databases provide full-text access to over 15,000 journal titles. In addition, the Library is a Selective Depository of government documents and holds 32,875 audiovisual units, $1,273,105$ microform units, and 1,890 maps. The Library also features an Alabamiana collection. Inter-library loan services provide graduate students and faculty access to library materials held by other institutions.

Information on the Library's collections, patron information, and course reserves is available through the Library's website and online catalog. Web accessible workstations and photocopiers are available on each of the Library's public service floors. In addition, there is a computer lab on the tenth floor with fourteen workstations. The lab workstations have applications software installed. Also located on the tenth floor is a smart classroom used exclusively for instructional purposes.

The library was built in 1972 as a thirteen-story facility. Red granite tiles have replaced the original white marble. The building is divided into eight subject floors managed by subject specialist librarians. It is open 87 hours per week during fall and spring semesters and 69 hours per week during the summer terms. Hours are reduced when students are not on campus.

## MAIL CENTER

Students enrolled at JSU (main campus) are encouraged to get a mailbox. Students may receive personal mail, financial aid, checks and correspondence, DARS, mid-term grades, and other University correspondence. International fax machine, stamps, and UPS services are available at the Mail Center.

The Mail Center, located on the 4th Floor, Theron Montgomery Building, telephone (256) 782-5290, is open from 8:00 a.m. - 4:30 p.m., including the lunch hour, Monday through Friday. Mail is delivered Monday through Friday only.

## MOTOR VEHICLES

Any motor vehicle owned, maintained, or operated on the JSU campus must be registered with the University Police. Vehicles are registered annually at the beginning of the Fall Semester or the semester in which the student first enrolls. A vehicle obtained after a student enrolls must be registered immediately.

Registration fee is $\$ 15.00$ for each vehicle each academic year. At the time of registration, a valid drivers license, tag number and proof of insurance must be presented.

Parking and traffic regulations can be obtained from the University Police Department in Salls Hall or by accessing the University Police Department homepage on the Internet at http://www.jsu.edu/depart/UPD

## OFFICE OF MULTICULTURAL SERVICES

The Office of Multicultural Services promotes cultural diversity within the University community. The Office enhances the University environment through programs and activities to develop leadership and academic skills, as well as to increase the awareness of diverse cultures and backgrounds.

The Office also coordinates the ACHE/SREB Minority Doctoral Scholars Program at the University. The Minority Doctoral Scholars Program addresses the present under-representation of minorities in higher education by encouraging ethnic minority students to pursue doctoral degrees for careers as college teachers.

The Office is located on the 3rd Floor, Theron Montgomery Building. For additional information, contact the Director of Multicultural Services, at (256) 782-5886.

## PUBLIC SAFETY

The University provides a wide-range of public safety services, including law enforcement, security, parking, traffic enforcement, and crime prevention. Students and employees may report criminal incidents, accidents, and/or emergencies to the University Police Department located in Salls Hall (emergency 256-782-6000; non-emergency 256-782-5050). The University complies with the Right to Know and Campus

Security Act of 1990. An annual crime statistics report is distributed to students and employees. These may also be obtained upon request from the University Police Department, Salls Hall, or by accessing the University Police Department homepage on the Internet at http://www.jsu.edu/depart/UPD/statistics.html.

## STUDENT FINANCIAL AID

The University offers a broad program of financial aid which includes loans, scholarships, and employment.

Federal financial aid is available only to citizens, nationals, and permanent residents of the United States.
Most aid programs are based on the individual need of the applicant. The University utilizes the Free Application for Federal Student Aid (FAFSA) as the need analysis for most programs of financial assistance. The FAFSA contains questions about a student's assets, income, and other resources. The FAFSA should be submitted as soon as possible after January 1, preferably before March 15. The JSU Title IV code is 001020. The FAFSA can be submitted electronically via the Internet.

About four weeks after the applicant submits the FAFSA, the applicant will receive a financial aid report. The information from this report will be used to determine the student's eligibility for campus employment and certain loans. Note that all graduate students are allowed to apply as independent students without regard to parental income.

All forms should be completed as honestly and accurately as possible. Anyone who knowingly makes a false statement and/or misrepresentation is subject to a fine or imprisonment or both under the United States Criminal Code. Applicants may be asked to substantiate information they submit on the FAFSA.

## LOANS

Students who must borrow money to finance their education should consider long-term, low interest loans available to those who meet eligibility requirements. Loans must be repaid regardless of whether recipients graduate. The following loans are available to eligible graduate students.

## William Ford Federal Direct Student Loan Program

Jacksonville State University participates in the Federal Direct Student Loan Program (FDSL). This program is very similar to the Stafford Loan Program. Maximum loan amounts, interest rates, and most other aspects of the FDSL program are almost identical to the old Stafford Loans.

To apply, submit a Free Application for Federal Student Aid and a Financial Aid Data Sheet to the Financial Aid Office, preferably by March 15. These forms are available in the Financial Aid Office, 107 Bibb Graves Hall, (256) 782-5006.

There are two types of Federal Direct Loans for graduate study: subsidized and unsubsidized.
Following is a description of each loan type:

## Federal Direct Subsidized Student Loan

This is a need based loan available to those applicants who demonstrate need. The interest rate is variable with a cap of 8.25 percent. Repayment begins six months after the student's enrollment drops below half-time. Graduate students may borrow up to $\$ 8,500$ per year on this loan.

Note that loan amounts may not exceed the cost of education as determined by the Financial Aid Office and students must be enrolled for at least six (6) graduate semester hours each term they receive this loan.

## Federal Direct Unsubsidized Student Loan

This is a non-need based loan, however, a need analysis must be submitted to first determine if the applicant qualifies for a subsidized loan. Borrowers who receive this loan must either pay the interest while enrolled or have the interest capitalized for repayment later. Graduate students may borrow up to $\$ 10,000$ per academic year on this loan, depending on the cost of education.

Note that loan amounts may not exceed the cost of education as determined by the Financial Aid Office and students must be enrolled for at least six (6) graduate semester hours each term they receive this loan.

The University provides several scholarships each year based on academic achievement of applicants. Several organizations, individuals, and corporations offer scholarships to JSU students. A listing of these scholarships is available each January from the Financial Aid Office.

Since scholarships are based on academic achievement, no need analysis is required.
Most scholarships have an absolute deadline of March 1 for applying.

## Technology Scholarship Program for Alabama Teachers (TSPAT)

Full-time, certified teachers in public schools of Alabama are eligible to apply for this assistance which pays graduate tuition for three specific computer technology courses. The purpose of this program is to provide computer technology to teachers. First priority is given to those teachers in the fields of English, science, math, social science, history, and those teaching kindergarten to grade six. Contact the Financial Aid Office for an application. This is a non-need based program.

## Alabama National Guard Educational Assistance Program

The State of Alabama provides scholarships to cover tuition and book expenses for students who belong to the Alabama National Guard. The National Guard unit commander or the Financial Aid Office can provide applications.

Selection of recipients is made by the Alabama Commission on Higher Education in Montgomery.

## ENROLLMENT REQUIREMENTS

All financial aid programs are contingent upon actual enrollment at JSU. Most programs require at least half-time status (six hours) of graduate course work for eligibility during Fall and Spring Semesters.

Students receiving financial aid who withdraw may be required to repay a proportionate amount of financial aid received for that term. Those on financial aid who are due a refund will have the refund credited back to the appropriate fund(s) with the remaining balance going back to the student.

Federal assistance is available only to students who are enrolled in a degree-granting program or who are seeking teacher certification. Special students and transient students are, therefore, ineligible for federal aid.

## REQUIREMENTS FOR MAINTAINING SATISFACTORY ACADEMIC PROGRESS

## GRADUATES

Qualitative: Graduate students must maintain the required grade-point average (GPA) of 3.0. The appeal process for GPA should be submitted in writing to the dean, College of Graduate Studies.

Quantitative:
TIME: The maximum time allowed for graduate programs is 150 percent of the published length of the educational program measured in credit hours attempted. Since most master's programs require 30 to 36 hours, Jacksonville State University has established a policy that allows for a maximum of 45 to 54 credit hours. Educational Specialist students (Ed.S.) are allowed an additional 33 credit hours of financial aid eligibility. The graduate student appeal process for quantitative elements is the same as undergraduates. For information concerning the appeal process, contact the Financial Aid Office at 256-782-5006.

MINIMUM PERCENTAGE: A student must complete $67 \%$ of their course work each year in order to graduate within the maximum time frame. To meet this requirement, a minimum number of hours must be completed each year ( 2 terms of attendance). Listed below are the minimum annual hours required to insure satisfactory academic progression.

|  | Initial Enrollment <br> Hours Attempted | Minimum Credit Hours <br> Required to be Completed |
| :--- | :--- | :--- |
| Year 1 | 18 credit hours attempted | 12 credit hours earned |
| Year 2 | 36 credit hours attempted | 24 credit hours earned |
| Year 3 | 54 credit hours attempted | 36 credit hours earned |

All loans, grants, and scholarships administered by the University are credited to each student's account and balance due checks are mailed to the student's campus post office box on or about the third class day. Campus job checks are placed in campus mailboxes on approximately the fourth working day of each month.

## CANCELLATION

An offer of financial aid will be cancelled (1) if it is not accepted and returned within 14 days; (2) if the student is not meeting the satisfactory academic progress policy; (3) if a previous loan or grant repayment is in default; or (4) if other financial assistance results in more total aid than federal regulations allow.

## VETERANS BENEFITS

Veterans may be eligible for assistance through a variety of programs. The office of Veterans Affairs is located in 101 Bibb Graves Hall, to assist these students.

## VOCATIONAL REHABILITATION

Students who have physical disabilities may be eligible for a special assistance program through the Vocational Rehabilitation Service. Information can be obtained from the Director of Vocational Rehabilitation, 2129 East South Boulevard, Montgomery, AL 36116. A local representative of the county vocational rehabilitation office visits the JSU campus each week. Disabled Support Services (DSS) will provide information on arranging an appointment. The DSS office is located on the $3^{\text {rd }}$ floor, Theron Montgomery Building (256-782-5093).

## EMPLOYMENT

Jacksonville State University offers four possible employment opportunities for students enrolled in its College of Graduate Studies: (1) Graduate Assistantships; (2) University Student Employee Program; (3) Federal Work-Study; and (4) Part-Time Off-Campus Employment.

## Graduate Assistantships

Several salaried assistantships are awarded each year. In addition to a monthly salary, these assistantships also cover six semester hours graduate tuition for the fall and spring semesters and a total of six semester hours of graduate tuition during the summer terms. To apply, contact the office of the College of Graduate Studies, 256-782-5329.

## University Student Employee Program

A number of departments employ graduate students on the University Student Employee Program. To apply, contact department heads. Job openings are also posted in the Student Financial Aid Office, 107 Bibb Graves Hall. This program is not based on financial need.

## Federal Work-Study

This program requires that a need analysis form and a Financial Aid Data Sheet be filed. The preference deadline to apply is March 15 . Based on financial need, this program allows students to earn the minimum wage for an average of about 15 hours per week. The Student Financial Aid Office administers this program.

## Part-Time Off-Campus Employment

Information concerning employment off campus is available at www.jsu.edu/depart/ace/ccs/index/html.

## CAREER PLACEMENT SERVICES

Career Placement Services (CPS) provides assistance for graduating students through on-campus interviews, job listings, career fairs, referrals, computer resources, and corporate information. In addition, CPS coordinates co-operative education experiences. Additional information about CPS is available at (256) 782-5482.

## NONDISCRIMINATION

All financial aid is awarded without regard to age, sex, race, religion, physical or mental handicap, or national origin. Federal financial aid is available only to citizens, nationals, or permanent residents of the United States.

## FINANCIAL AID TRANSCRIPTS

Federal regulations require that students who transfer from other institutions must file a Financial Aid Transcript (FAT) from each institution attended if they apply for financial aid. JSU students who attend summer terms at other institutions must file a FAT each term this occurs. An FAT must be on file from all institutions that students attended regardless of whether or not aid was received at that institution.

## INTERNAL REVENUE SERVICE TAX LAWS

Some scholarships and fellowship grants are subject to being reported as income on Federal Income Tax Returns. It is the student's responsibility to report such assistance according to regulations established by the Internal Revenue Service.

## TAXPAYER RELIEF ACT OF 1997

The Taxpayer Relief Act of 1997 allows qualified students and/or parents to receive benefits when filing federal income tax returns for certain educational expenses. Taxpayers who are interested in this new legislation, which includes Lifetime Learning Tax Credit, should contact their tax preparers. There are other provisions for interest paid on educational loans. The University does not provide tax advice and makes no representation on the new tax law.

## SPECIAL NOTE TO STUDENTS

Information provided in this Bulletin is of a general nature and is not intended to explain in detail all financial aid programs. Programs described herein are subject to Federal, State, and institutional guidelines and are subject to change without notice. Additional information is located in the University Catalogue, Student Handbook, and publications prepared by the Student Financial Aid Office. These publications also contain information about the usage of Social Security Numbers, the Family Rights and Privacy Act, and Student Right to Know Information.

## INSTITUTIONAL AND FINANCIAL ASSISTANCE INFORMATION FOR STUDENTS

Federal regulations require educational institutions to disclose certain information to enrolled students, prospective students, parents, and employees. This information includes the Family Education Rights and Privacy Act, deferment procedures for students receiving FFEL/Direct Loans for Peace Corps or volunteer services, financial assistance programs, general institutional information (such as curriculum and costs), graduation rates, campus security reports, drug free workplace policy, athletic program participation rates and financial support data. Detailed information on these items is located on the Jacksonville State University website (http://www.jsu.edu/) or at other locations described on the website.

Jacksonville State University's tuition and fees have remained lower than those charged by most other quality institutions in the state and nation. Increases are required as costs rise, but efforts are made to keep fees and charges at a minimum.

The following tuition and fees are those in effect at the time this Bulletin was published. The University reserves the right to adjust tuition and fees without prior notice. Revisions will be publicized as far in advance as possible and will be available in the office of the College of Graduate Studies and in the Registrar's Office.

## TUITION FOR GRADUATE STUDENTS

In-State
Less than 10 hours
10-12 hours
More than 12 hours

## Out-of-State

Less than 10 hours
10-12 hours
More than 12 hours
\$ 162.00 - per hour
\$ 1,620.00
\$ 162.00-additional per hour
\$ 324.00 - per hour
\$ 3,240.00
\$ 324.00-additional per hour

Tuition for terms other than Fall and Spring shall be the per hour rate.
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 be voided.

## OUT-OF-STATE FEES

A student's resident status is defined by ACT 96-663 of the State of Alabama. This statute defines resident students, prescribes tuition rates for nonresident students and provides for exceptions. In compliance with this statute, the University requires, as part of the application process, that all students certify their permanent residence. Students whose permanent residence is in Alabama or a designated Georgia county, i.e. Bartow, Carroll, Chattooga, Coweta, Douglas, Floyd, Haralson, Heard, Paulding, or Polk will be eligible for in-state tuition. For policies and regulations used in determining resident status, contact the office of the College of Graduate Studies.

## FEES AND DEPOSITS

## (Required only when applicable)

Application for admission (non-refundable)
Audit - per semester hour (if not enrolled in three or more semester hours)
Change in course schedule (add/drop) \$ 20.00

- each processing

Degree (non-refundable)
\$ 20.00
Degree reprint fee (each)
Graduation apparel (cap, gown, etc.)
is available through the University
Bookstore. Students will be requested to place their orders at the beginning of their final semester (or eight weeks minimum prior to graduation); the exact date each semester will be posted in the University Bookstore. Costs will vary based on degree

| ID Card replacement fee - per processing | $\$ 5.00$ |
| :--- | :--- |
| Late registration | $\$ 30.00$ |
| Mail-at-Home fee | $\$ 10.00$ |
| Motor vehicle registration - each | $\$ 15.00$ |
| Pre-School Center Program |  |
| Fall or Spring Semester - per child | $\$ 250.00$ |
| $\quad$ May Term - per child | $\$ 80.00$ |
| Residence Hall deposit - each student | $\$ 100.00$ |
| Returned check each | $\$ 29.00$ |
| Teaching Certificate fee - each | $\$ 20.00$ |
| Transcript of academic record - each | $\$ 5.00$ |

## PAYMENTS

In order to confirm registration, students must pay all tuition and fees by the appropriate due date, which is published in the Class Schedule. Payment may be made by one of the following ways: Student Access System (http://www.jsu.edu/) by credit card, In-Touch Telephone system by credit card (Visa and MasterCard are accepted), at the Bursar's Office (Cashier's window, Bibb Graves Hall) or by mail (must be RECEIVED in the Bursar's Office by the due date).

Students who do not pre-register will receive a statement at the time of on-campus registration and must pay tuition, fees, and residence hall charges when due. Students who register by other methods will not receive a statement.

Long distance telephone charges, traffic fines, library fines, etc., are due upon receipt.
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 financial obligations to the University. Each student is responsible for knowing all registration and fee payment dates, deadlines, and other requirements which are published in the Class Schedule or other information disseminated from time to time.

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

If, after registration, a student adds enough hours to exceed the ten hour basic rate, the difference between what is originally paid and the basic charge for ten or more hours must be paid at the time the course is added.

Graduate students taking at least three hours for credit may audit a course without payment of an audit fee but must secure permission of the instructor concerned.

## REFUNDS OR CHARGE ADJUSTMENTS

## Withdrawal

WITHDRAWAL refers to ending enrollment in all classes at JSU in a term.
A student who has pre-registered but does not wish to attend JSU must notify the Registrar's Office in person or in writing (certified mail suggested) prior to the first day of classes. Students scheduled to receive financial aid must also notify the Student Financial Aid Office in writing (certified mail suggested) prior to the first day of classes to cancel their financial aid. Failure to do so may result in financial penalties.

On or after the first day of classes, tuition will be refunded as follows:

- $80 \%$ adjustment if withdrawal occurs within one (1) week after the close of registration for Fall and Spring Semesters.
- $50 \%$ adjustment if withdrawal occurs within three (3) weeks after close of registration for Fall and Spring Semesters.
- $80 \%$ adjustment if withdrawal occurs three class days after the close of registration for May and Summer Terms.
- $50 \%$ adjustment if withdrawal occurs nine class days after close of registration for May and Summer Terms.
- NO adjustment if withdrawal occurs thereafter.

Refunds for withdrawals will be mailed to the student's mailing address. Any remaining charges are due and payable upon withdrawal.

Students receiving financial aid who withdraw will receive a refund based on federal guidelines as explained in the JSU Class Schedule. Recovery will be made to the appropriate fund and/or student.

## Change of Course(s): Drop/Add

DROP refers to the dropping of part but not all of the course work in a term.
There is a $\$ 15.00$ charge for each processing of a drop/add on or after the first day of classes.
On or after the first day of classes, there will be no refund or tuition adjustment for dropping of classes if still enrolled in any other class.

If a student's adding a course results in the student owing additional tuition, the difference must be paid on the day the course is added to retain enrollment in the course.

## CHECKS

Payment of accounts by check is encouraged. If a student presents a check which is not honored by the drawee's bank, a charge of $\$ 29.00$ will be levied against the student for each returned check. After having two checks returned, the student forfeits the privilege of paying by check.

No counter checks will be accepted.

## INTERNATIONAL STUDENTS

International students are required each semester to pay tuition, fees, and residence hall charges in U.S. dollars to confirm registration. International students must conform to Immigration and Naturalization Service (INS) regulations concerning the INS Form I-20, Section 8, for financial assurance. All international students are required to carry health and repatriation insurance.

## RESIDENCE HALL AND APARTMENT POLICIES

All students desiring on-campus housing will need to complete an application for housing and pay a $\$ 100$ deposit. Additionally, the student will sign an academic year housing contract. This contract, along with the "Guide to Residence Hall Living," notes the terms and conditions, deposit and rental payments, general procedures and policies of occupancy. Detailed information is available upon request from the Department of University Housing and Residence Life, (256) 782-5122.

A limited number of private rooms may be available. Interested students should inquire about this in the Department of University Housing and Residence Life, (256) 782-5122.

Rates for residence halls and apartments are as follows:

## Residence Halls

\(\left.$$
\begin{array}{ll}\begin{array}{c}\text { Women } \\
\text { Sparkman Hall }\end{array} & \begin{array}{l}\text { Double } \\
\text { \$585 per semester }\end{array} \\
\text { Men } & \begin{array}{l}\text { Double } \\
\text { Crow Hall }\end{array}
$$ <br>

\$575 per semester\end{array}\right\}\)| Coed | Double |
| :--- | :--- |
| Logan Hall | \$740 per semester |
| Patterson Hall | \$740 per semester |
| Dixon Hall | \$485 per semester |
| Daugette Hall | Fitzpatrick - freshmen only |
| \$575 per semester |  |

## Private

\$ 775 per semester

## Private

\$ 862 per semester

## Private

\$1,110 per semester
$\$ 1,110$ per semester
\$ 862 per semester
\$ 625 per semester
\$ 862 per semester

## Apartments

| Campus Inn |  |
| :--- | ---: |
| $\quad$ Efficiency - Furnished | $\$ 720$ per semester |
| 1 Bedroom - Furnished | $\$ 860$ per semester |

Forney (Married students and single parent students)
1 Bedroom Unfurnished $\quad \$ 720$ per semester
2 Bedroom Unfurnished $\$ 860$ per semester
College
1 Bedroom Furnished $\quad \$ 860$ per semester
Penn House
1 Bedroom Furnished $\quad \$ 860$ per semester
Pannell (Rates include electrical service)
Efficiency - Furnished $\quad \$ 920$ per semester
JAX (Married students and single parent students)
1 bedroom -Unfurnished $\$ 800$ per semester 2 bedroom - Unfurnished $\$ 1,000$ per semester

## Summer Rates

## Double

Daugette Hall
Logan Hall
Patterson Hall
$\$ 115$ per semester
\$200 per semester
$\$ 200$ per semester

## Private

$\$ 150$ per semester
$\$ 300$ per semester
$\$ 300$ per semester

NOTE: Rates are subject to change without notice.

## WITHHOLDING OF CREDITS

The complete academic record may be withheld from any student who is indebted to the University for any reason until the account is settled through the Bursar's Office.

## ANTHROPOLOGY

The Department of Physical and Earth Sciences offers courses in support of the Master of Arts with a major in general studies. A graduate program is not offered in anthropology.

## ANTHROPOLOGY COURSES

## Prefix AN

410G. Archaeological Field School (3). Designed to provide the student field experience in methodology and techniques of archaeological data recovery.
412G. Lab Techniques in Archaeology (3). Instruction and experience in the techniques of artifact preparation, analysis, cataloging, and storage. (May be used in the social science teaching field with a major in secondary education.)
490G. Advanced Seminar in Anthropology (3). Examination of current issues in anthropology. Prerequisite: AN 224 or permission of instructor. (May be used in the social science teaching field with a major in secondary education.)

## BIOLOGY

The Biology Department offers courses leading to the Master of Science with a major in biology and supporting courses for the Master of Arts with a major in general studies. For students majoring in secondary education with a teaching field in biology or general science, supporting courses are offered for the Master of Science in Education and the Educational Specialist degrees.

Students accepted to the Master of Science with a major in biology must meet with the graduate advisor. An Advisory Committee will be selected to assist the student in developing a degree plan that satisfies University and departmental degree requirements. Master of Science in Education students must meet with the head of the Biology Department for advisement.

## ADMISSION REQUIREMENTS FOR THE MASTER OF SCIENCE WITH A MAJOR IN BIOLOGY

In addition to meeting the general admission requirements of the College of Graduate Studies, applicants for the Master of Science with a major in biology must have an undergraduate major in biology or its equivalent, as determined by the Biology Department, including courses equivalent to Introductory Biology I (BY 101, 103), Introductory Biology II (BY 102, 104), Genetics (BY 322), Ecology (BY 332), and Cell Biology (BY 373). Applicants with majors in other natural sciences or mathematics will be considered for admission; however, additional courses may be required.

## MINIMUM REQUIREMENTS FOR THE DEGREE

Non-Thesis Option: A minimum of 36 semester hours (of which half must be at the 500 level), including successful completion of an acceptable original research paper, and a comprehensive examination. A minimum grade-point average of 3.0 on a 4.0 scale in all graduate work in biology is required. The 36 semester hours for the Non-Thesis Option will include the following courses:
a. 2 courses from the Molecular, Cellular, Physiological, and Developmental area:

BY 403G, 412G, 413G, 431G, 434G, 450G, 451G, 473G, 479G
MBY 464G
b. 2 courses from the Organismal, Ecological, and Evolutionary area:

BY $402 \mathrm{G}, 406 \mathrm{G}, 407 \mathrm{G}, 419 \mathrm{G}, 420 \mathrm{G}, 421 \mathrm{G}, 432 \mathrm{G}, 438 \mathrm{G}, 439 \mathrm{G}, 440 \mathrm{G}, 452 \mathrm{G}, 455 \mathrm{G}, 458 \mathrm{G}, 475 \mathrm{G}$, 476G
MBY 412G, 415G, 423G, 460G, 461G, 462G, 486G, 487G
c. 2500 level seminar courses selected from:

BY 570, 571,572, 573, 574, 575, 576, 577
d. Research Methods in Biology (BY 594)
e. Research Project (BY 595)

The remaining hours will be electives in biology.
Thesis Option: A minimum of 30 semester hours (of which half must be at the 500 level), including successful completion of an acceptable thesis, and a comprehensive examination. A minimum grade-point average of 3.0 on a 4.0 scale in all graduate work in biology is required. The 30 semester hours for the Thesis Option will include the following courses:
a. 1 course from the Molecular, Cellular, Physiological, and Developmental area:

BY 403G, 412G, 413G, 431G, 434G, 450G, 451G, 473G, 479G
MBY 464G
b. 1 course from the Organismal, Ecological, and Evolutionary area:

BY 402G, 405G, 406G, 407G, 419G, 420G, 421G, 432G, 438G, 439G, 440G, 452G, 455G, 458G, 475G, 476G
MBY 412G, 415G, 423G, 460G, 461G, 462G, 486G, 487G
c. 2 additional courses from areas listed in a. or b. above
d. 2 of the following 500 level seminar courses:

BY 570, 571,572, 573, 574, 575, 576, 577
e. Research Methods in Biology (BY 594)
f. 3 hours in Research (BY 596, \&/or 597, \&/or 598)
g. Thesis (BY 599, BY 599)

See "Thesis Options and Procedures," pages 33.
The remaining hours will be electives in biology

## BIOLOGY COURSES

## Prefix BY

402G. Medical Microbiology (4). Study of pathogenic bacteria, viruses, fungi, and parasites of humans and some domestic animals; identification of pathogens, disease processes, and public health emphasized; lecture and laboratory. Prerequisite: BY 323 or 283 and permission of the instructor.
403G. Immunology (4). Study of immunity and how the immune system responds to specific infectious and non-infectious agents; comparative immunology of invertebrate and vertebrate animals, immunological disorders, and application of immunological techniques; lecture and laboratory. Prerequisite: BY 373; BY 323 recommended.
405G. Animal Behavior (3). Genetic and anatomical bases of behavior; impact of behavior on the ecology of animals emphasized; lecture, discussion, demonstration and library studies. Prerequisite: BY 332.
406G. Ornithology (4). History, classification, anatomy, physiology, ecology, and distribution of birds; laboratory emphasis on field identification and ecology; lecture, laboratory, and field studies. Prerequisite: BY 332.
407G. Mammalogy (4). Aspects of the biology, ecology, taxonomy, and distribution of southeastern mammals; lecture, laboratory, and field studies. Prerequisite: BY 332.
412G. Plant Reproduction and Development (4). Study of structural and functional aspects of reproductive and developmental phenomena in vascular plants; lecture and laboratory. Prerequisites: BY 322, 373; CY 105, 106, 107, 108 recommended.
413G. Animal Reproduction and Development (4). Study of the structural and functional aspects of reproductive and developmental phenomena in animals with emphasis on the cellular and molecular mechanisms involved; lecture and laboratory. Prerequisites: BY 322, 373; CY 105, 106, 107, 108 recommended.
419G. Biology of Algae (4). Study of freshwater algae in northeast Alabama; extensive field and laboratory identification; research project; lecture, laboratory, field and library studies. Prerequisites: BY 332, 373.

420G. Biology of Fungi (4). Study of slime molds and true fungi in northeast Alabama; extensive field and laboratory identification; research project; lecture, laboratory, field and library studies. Prerequisites: BY 332, 373.
421G. Biology of Bryophytes and Lichens (4). Study of the mosses, liverworts, hornworts and lichens in northeast Alabama; extensive field and laboratory identification; research project; lectures, laboratory, field and library studies. Prerequisites: BY 332, 373.
427G. Independent Studies in Biology (1)(1)(1). (Grade of Pass or Fail only.) Laboratory or field research investigation dealing with an aspect of biological sciences; biology sponsor required for topic approval and supervision. Prerequisite: BY 370 .

431G. Cellular Physiology (4). Systematic survey of cellular physiology in eukaryotic cells, membranes, energetics, and genetic expression emphasized; lecture and laboratory. Prerequisites: BY 373, CY 105, 106, 107, 108; CY 231,232 recommended.
432G. Experimental Ecology (4). Experimental design and analysis of ecological data using appropriate ecological instrumentation; lecture, laboratory, and field studies. Prerequisites: BY 332; MS 204, CS 201 recommended.
434G. Animal Systems Physiology (4). Systematic survey of organ system physiology in vertebrates; systems analysis, biophysics, and bioengineering emphasized; lecture and laboratory. Prerequisites: BY 373; CY 105, 106, 107, 108; CY 231, 232 and one semester of physics recommended.
438G. Freshwater Biology (4). Analysis of the unique ecology and biology of the freshwater environment; extensive field work; research project; lecture, laboratory, and field studies; Prerequisite: BY 332.
439G. Microbial Ecology (4). Microbial component of the global ecosystem including interactions among microorganisms and between microorganisms, plants, and animals, biogeochemical cycles, and application to various technologies; lecture, laboratory, and field studies. Prerequisites: BY 323, 332.
440G. Evolutionary Biology (4). Study of the processes and mechanisms which lead to evolutionary change in the biota; lecture, laboratory and field studies. Prerequisite: BY 322.
442G. General Entomology. Lecture, laboratory, and field study of insects and other arthropods, with an emphasis on the taxonomy, morphology, physiology, and ecology of the insects. Prerequisite: BY 332.

450G. Molecular Biology (4). Study of the processes involved in the expression of biological information at the molecular level; lecture and laboratory. Prerequisites: BY 322,373 or permission of the instructor.
451G. Plant Anatomy (4). Study of the comparative structural organization of the vegetative and reproductive parts of seed plants, from cells to tissues to systems; lecture and laboratory. Prerequisites: BY 373.
452G. Plant Taxonomy (4). Survey of plant nomenclature, identification systems, description, evolution, and classification; vascular plants emphasized; lecture, library, laboratory, and field studies. Prerequisite: BY 322 or 332 .
453G. Dendrology (3). Identification, taxonomy, ecological characteristics, and distribution of important North American trees; one class period and one four-hour laboratory period per week; field trips.
455G. Plant Ecology (4). Major plant communities of the southeastern U.S. and their relationships with major abiotic features; autecological field studies of plant species and populations included; lecture, laboratory, library and field studies. Prerequisite: BY 322 or 332.
458G. Herpetology (4). Taxonomy, ecology, physiology, and external anatomy of amphibians and reptiles; conservation and field methodology emphasized; lecture, laboratory and field studies. Prerequisite: BY 332. Recommended: BY 320.
473G. Advanced Cell Biology (4). Lecture and laboratory. A study of molecular aspects of cell structures and their functions using both descriptive and biochemical approaches. Prerequisites: BY 101, 102, 103, 104, 373. Recommended: BY 322, CY 231, 232, 362, 363.
475G. Economic Botany (4). Collection identification, culture and preservation of plants for illustration and utilization in the classroom and laboratory; two class periods and one laboratory period per week. Prerequisites: BY 101, 102, 103, 104.
476G. Invertebrate Zoology (4). Systematics, ecology, physiology, and phylogentic relationships of invertebrate animals; lecture, laboratory, and field studies. Prerequisite: BY 332.
479G. Plant Physiology (4). Mineral nutrition, water relations, photosynthesis, metabolism and transport in vascular plants; lecture and laboratory. Prerequisite: BY 373; BY 451 recommended.
480G. Advanced Topics in Biology I (1). Lecture and discussion; topics to be posted in the Biology Department. Prerequisites: BY 322 or 332 or 373.
481G. Advanced Topics in Biology II (1). Lecture and discussion; topics to be posted in the Biology Department. Prerequisites: BY 322 or 332 or 373.
503. Special Problems in Biology (2). Special topics approved by instructor after consideration of students background.
504. Problems in Biology (1). Special topics approved by instructor after consideration of students background.
562. Symbiotic Associations (3). Analysis of the nature and mechanism of symbiotic associations, including commensalism, mutualism, parasitism, that involve interactions between organisms. Prerequisites: BY 322, 332, 373 or equivalent and one 400 level organismal courses.
570. Seminar in Developmental Biology (2). Presentation, discussion, and analysis of recently published research in developmental biology of cells, tissues, and organ systems in plants, animals, or microbes; independent library research required. Prerequisite: Permission of the instructor.
571. Seminar in Organismal Biology (2). Presentation, discussion, and analysis of recently published research focusing on specific groups of organisms; independent library research required. Prerequisite: Permission of the instructor.
572. Seminar in Ecology (2). Presentation, discussion, and analysis of recently published research in plant, animal, or microbial ecology; independent library research required. Prerequisite: Permission of the instructor.
573. Seminar in Cell Biology (2). Presentation, discussion, and analysis of recently published research in cellular biology; independent library research required. Prerequisite: Permission of the instructor.
574. Seminar in Evolutionary Biology (2). Presentation, discussion, and analysis of recently published research in evolutionary biology; independent library research required. Prerequisite: Permission of the instructor.
575. Seminar in Genetics (2). Presentation, discussion, and analysis of recently published research in plant, animal, or microbial genetics; independent library research required. Prerequisite: Permission of the instructor.
576. Seminar in Physiology (2). Presentation, discussion, and analysis of recently published research in plant, animal, or microbial physiology; independent library research required. Prerequisite: Permission of the instructor.
577. Seminar in Systematics (2). Presentation, discussion, and analysis of recently published research in systematic biology; independent library research required. Prerequisite: Permission of the instructor.
594. Biology Research Methods (1). Introduction to diverse research methods and literature in the biological sciences. Includes topics such as, but not limited to, techniques in environmental analysis, microscopy, protein and nucleic acid analysis, biometry and population dynamics, and physiology. Prerequisite: Permission of the instructor.
595. Research Project (3) (3). (Grade of Pass or Fail only) Completion of an acceptable original research paper; non-thesis option only. Prerequisites: BY 594, completion of at least 20 hours of graduate study in biology, and permission of the instructor.
596. Research I (1) (1). (Grade of Pass or Fail only). Original field and/or laboratory research in the biological sciences; thesis option only. Prerequisite: Approval of Application for Thesis Option and permission of the instructor.
597. Research II. (2) (2). (Grade of Pass or Fail only) Original field and/or laboratory research in the biological sciences; thesis option only. Prerequisite: Approval of Application for Thesis Option and permission of the instructor.
598. Research (3) (3). (Grade of Pass or Fail only). Master s thesis research. Prerequisites: Approval of Application for Thesis Option, BY 594 and permission of the instructor.
599. Thesis (3) (3). (Grade of Pass or Fail only) Prerequisite: Approval of Application for Thesis Option. See "Thesis Option and Procedures" on pages 33.

## MARINE ENVIRONMENTAL SCIENCES CONSORTIUM

Graduate students may take marine biology courses for credit toward the Master of Science with a major in biology and supporting courses for the Master of Arts with a major in general studies. For students majoring in secondary education with a teaching field in biology or general science, supporting courses are offered for the Master of Science in Education and the Educational Specialist degrees. These courses are offered only at the Marine Environmental Sciences Consortium (MESC) Sea Lab on Dauphin Island, Alabama. The Consortium is composed of 24 Alabama colleges and universities. Special laboratory fees, tuition, and frequency of courses are determined by the Sea Lab staff. Information concerning number of class periods and laboratories, application, and registration may be obtained from the Marine Biology advisor, Room 242 Martin Hall, in the Biology Department at JSU.

## MARINE BIOLOGY COURSES

## Prefix MBY

410G. Marine Fisheries Science (4). In-depth study of the principles and methods of fishery biology and their application to conservation; lecture and laboratories. Prerequisite: Graduate standing in biology.
411G. 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; individual species will be studied as they relate to ecological principles which they exemplify, thus providing both a taxonomic and ecologic background. Prerequisites: Graduate standing in biology; marine invertebrate zoology or marine biology (one semester of physics recommended).
412G. Coastal Ornithology (4). Study of coastal and pelagic birds with emphasis on ecology, taxonomy, and distribution; identification, population dynamics, and behavior of coastal birds; lecture, laboratory, and overnight trips to offshore islands. Prerequisite: Graduate standing in biology.
415G. Marine Botany (4). General study 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. Prerequisite: Graduate standing in biology.
417G. Estuarine Science (4). Survey of estuarine ecosystems with particular emphasis on the interactions between physical, geological, chemical, and biological processes; lecture, laboratory, and field trips.
420G. Special Topics: Coral Reef Ecology (4). Examines the ecology and evolution of coral reef communities, seagrass beds, and mangrove swamps; lecture, laboratory, and field exercises; one week will be spent on Andros Island, Bahamas.
421G. Special Topics: Marine Conservation Biology (4). Intended to develop a student's understanding of conservation biology by building upon the foundations of ecology; lectures and field exercises; requires students to develop a topical term paper and give a presentation.
423G. Marsh Ecology (4). Study of floral and faunal elements of various marine marsh communities; interaction of physical and biological factors will be emphasized; structured to provide field experience in addition to lecture material; trips will be scheduled to acquaint students with regional examples of marsh types. Prerequisite: Graduate standing in biology.
427G. Marine Technical Methods I (2). Introduction to instruments and procedures normally utilized aboard a marine research vessel; includes physical, biological, chemical, and geological parameter measurements and sample collections; basic positioning and communication procedures included. Prerequisite: Graduate standing in biology.
428G. Marine Technical Methods II (2). Introduction to the laboratory methodology associated with the usual chemical parameters of nutrient analysis; laboratory approach will be pursued; shipboard and other specific skills will be developed. Prerequisite: Graduate standing in biology.
460G. Dolphins and Whales (2). Designed to enable students to make rapid, accurate, and thoughtful use of a customized reference file and laboratory and field notes to respond to questions about the classification, anatomy, and ecology of marine mammals; lecture and laboratory.

461G. Marine Behavioral Ecology (4). Examines how animal behavior is influenced by and interacts with its environment, and the ecological and evolutionary significance of these behaviors in a marine setting; lectures, laboratory, and field exercises (some overnight).
462G. Marine Protozoology (3). Study of the major groups of protests from a variety of marine habitats including their taxonomy, structure, ecology of methods of identification; lectures, laboratory, and field trips.
463G. Marine Fish Diseases (3). Introduction to marine animal diseases, specifically finfish and shellfish; practical microbiological techniques for isolation and identification of diseases; lecture, laboratory, and field trips.
464G. Introduction to Neurobiology (5). Introduction to the neuroanatomy and neurophysiology of marine invertebrates and vertebrates; Neuroism computer package used to help illustrate the basic principles and to allow a detailed exploration of neurophysiology and neutral networks; lecture and laboratory.
486G. Marine Vertebrate Zoology (4). Study of marine fish, reptiles, and mammals, with a comprehensive treatment of their systematics, zoogeography, and ecology; lectures will encompass subject matter on a non-regional basis; field and laboratory work will stress the vertebrate fauna of the northern Gulf of Mexico; students will have the opportunity to assemble a collection of vertebrate species. Prerequisite: Graduate standing in biology.
487G. Marine Invertebrate Zoology (4). Examination of the systematics, ecology, physiology, and phylogenetic relationships of locally occurring marine invertebrate taxa; lecture, laboratory, and field work required; students have an opportunity to acquire collections of local fauna. Prerequisite: Graduate standing in biology.
501. Field Marine Science - Florida (2). This course will consist of a 10 -day field exercise in representative tropical sites in the southeastern Gulf of Mexico. Lecture, field exercises, research exercises. Prerequisite: MBY 390.
502. Field Marine Science - Maine (2). Consists of a 12 -day field exercise in coastal Maine with emphasis on rocky intertidal, kelp bed and eelgrass habitats; lecture, field exercises, research exercises. Prerequisite: MBY 390.
505. Fisheries Techniques (3). Detailed, semi-quantitative introduction to current biological and technological methodologies for studying fishes and aquatic habitats, with an emphasis on study design and integration across sub-disciples. Prerequisites: An ichthyology course or MBY 486 or an introductory course in fisheries; introductory statistics recommended.
515. Marine Resource Management (2). Designed to acquaint students to the management of marine resources, development of legislation, evolution of policy, legal processes, and impacts on human resources; lecture and discussion sessions.
530. Marine Microbial Ecology (3). General survey of the types of micro-organisms found in the marine environment; emphasis will be on the interaction of micro-organisms with each other and with their environment; lecture and discussion sessions.
540. Marine Biology for Teachers (6). General survey of marine plants, invertebrates, and vertebrates, the communities they form and the physical and chemical factors which influence their lives; second component will cover materials and methods of instruction on marine topics. Prerequisites: One year of general biology and graduate standing in biology.
542. Marine Plankton (3). Familiarizes students with the taxonomic breadth of phytoplankton, bacterioplankton, and zooplankton in estuaries, coastal seas, and open oceans; lecture and discussion sessions. Prerequisite: MBY 566.
554. Marine Biogeography and Paleobiology (3). Broad overview of the time course of evolutionary changes in the structure and function of marine ecosystems, and will consider the interacting roles of both historical and current factors as they influence the distribution and abundance of marine organisms; lecture and discussion sessions. Prerequisite: BY 332 or MBY 411.
555. Marine Biogeochemical Processes (2). Interaction between biological, chemical, and geological processes in the marine environment; examination of the cycling of major elements, how these cycles differ between different marine ecosystems and how these processes serve to regulate ecosystem functioning. Prerequisites: Graduate standing in biology and a background that includes inorganic and organic chemistry, geology, marine ecology or oceanography.
558. Advanced Marine Ecology (2). Study of the understanding of ecological processes with an emphasis on the mechanisms that control the distribution of plants and animals at scales ranging
from the individual to the ecosystem; lecture and discussion sessions. Prerequisites: BY 332 and MBY 411.
559. Benthic Ecology (2). Evolutionary history and the ecology of marine benthic communities from the earliest fossils to the present; topics include predation, competition, adult/larval interactions, dispersal mechanisms, productivity, materials cycling, and the relative importance of grazing and detritus in different ecosystems. Prerequisites: BY 332 or MBY 411G.
564. Marine Zoogeography (4). Study of physical, chemical, and biological factors influencing distribution of marine organisms; importance of continents; open oceans, and species competition on animal distribution; special attention to zoogeographical patterns in the Gulf of Mexico, western North Atlantic, and Caribbean regions. Prerequisite: 12 semester hours of biology.
566. Biological Oceanography (3). Focuses on patterns and processes that are of consequence to the interaction of organisms and the sea and encompasses both pelagic and benthic environments; lecture, laboratory, and discussions.
567. Fisheries Oceanography (2). Examination of the relationships between fish and life history, recruitment dynamics and harvest potential, and local-, meso-, and global-scale oceanographic processes; lecture and discussion sessions.
572. Coastal Ecosystems Dynamics (??). Investigation of the basic principles of ecosystem structure and function; course divided into two parts: an instructional phase of learning basics of ecosystem modeling, and a student-led investigation of the structure and function of a variety of coastal ecosystems. Prerequisite: MBY 566 recommended.
591. Directed Research (2). Research in any subject areas of marine science currently offered at the Sea Lab. Prerequisites: Special arrangement and permission of the instructor.

## BUSINESS ADMINISTRATION

The College of Commerce and Business Administration (CCBA) offers courses leading to the Master of Business Administration (M.B.A.). It also offers an area of concentration in business administration and economics within the Master of Public Administration.

The College is accredited by AACSB International - Association to Advance Collegiate Schools of Business.

The primary mission of the College of Commerce and Business Administration is to provide high quality, innovative undergraduate and graduate management education, primarily for the citizens of Northeast Alabama. Educational programs are designed to prepare students for leadership roles in the dynamic, global environment of profit and nonprofit organizations. Complementing the primary responsibility of excellence in teaching, faculty scholarship and service are also valued. The faculty staff, and administration of the College are committed to continuously improve the quality of academic programs, student support activities, and service to the local and regional community.

Research opportunities are available to graduate students under the supervision of the College's faculty members. Real-world case studies are available through the College's Small Business Development Center and internships enable students to acquire on-the-job work experience.

## ADMISSION REQUIREMENTS FOR THE MASTER OF BUSINESS ADMINISTRATION

Applicants for the M.B.A. must submit:

1. Completed JSU application
2. Non-refundable $\$ 20.00$ application processing fee
3. A letter of application setting forth career goals
4. A resume including education, employment, and community activity involvement
5. Three "Graduate Reference Forms" completed by individuals who can provide qualitative assessment of applicant's potential for success in graduate course work and citing potential professional leadership ability. This form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm.
6. Official transcript(s) from all postsecondary institutions attended (Students who have previously attended JSU do not need to request a transcript from the University. It will be automatically received once a student has filed an application for graduate studies.)
7. Official test scores on the Graduate Management Admission Test (GMAT). The GMAT must be taken within five years of enrollment.

Applicants for the M.B.A. must meet the following requirements prior to registering for any M.B.A. course work:

## Unconditional Admission

To obtain unconditional admission into the M.B.A. program, students must meet one of the following formula requirements:

200 times the grade-point average on the initial undergraduate degree plus the GMAT score is equal to or greater than a total of 950 points;

200 times the grade-point average on the last 64 hours attempted toward completion of the initial undergraduate degree plus the GMAT score is equal to or greater than a total of 1000 points.

For purposes of computing the undergraduate grade-point average, a 4.0 grade-point scale is used. The plus $(+)$ and minus (-) grades from undergraduate transcripts are not used in calculating the GPA.

Students receiving undergraduate degrees from institutions not accredited by a United States regional accrediting association must meet unconditional admission requirements.

## Conditional Admission

Any applicant failing to meet the requirements for unconditional admission, as defined above, will be considered for conditional admission if the student meets one of the following formula requirements:

200 times the grade-point average on the initial undergraduate degree plus the GMAT score is equal to or greater than a total of 850 points;

## OR

200 times the grade-point average on the last 64 hours attempted toward the completion of the initial undergraduate degree plus the GMAT score is equal to or greater than a total of 900 points.

For purposes of computing the undergraduate grade-point average, a 4.0 grade-point scale is used. The plus $(+)$ and minus ( - ) grades from undergraduate transcripts are not used in calculating the GPA.

All applications will be reviewed by a Graduate Committee composed of members of the graduate faculty within the College of Commerce and Business Administration and the M.B.A. Director. The Graduate Committee will submit to the dean of the College of Graduate Studies its recommendation on the conditional admission of each applicant. The dean of the College of Graduate Studies, in conjunction with the M.B.A. Director, will make the final decision on the conditional admission of the student.

Students who are granted conditional admission must achieve a GPA of at least 3.0 on the first 12 graduate hours attempted within the time frame specified by the CCBA Graduate Committee and indicated in writing to the student. Failure to comply will result in the students being dropped from the program.

## MINIMUM REQUIREMENTS FOR THE DEGREE

The Master of Business Administration program consists of 30 semester hours of graduate business courses for the general program or 36 semester hours of graduate business courses for the accounting concentration, plus 24 semester hours of foundation courses for a total of 54 semester hours for the general program and 60 semester hours for the accounting concentration. A comprehensive examination is required of all candidates.

## Foundation Courses

Credit for foundation course work may be given for courses already completed as part of a baccalaureate degree. Students without adequate undergraduate preparation are required to complete the 24 semester hours of foundation business and economics courses. The M.B.A. Director will evaluate each student's undergraduate course work to determine which foundation courses are required prior to the student taking M.B.A. courses. The graduate GPA is computed on all graduate hours attempted. Although grades achieved on undergraduate foundation courses will not be included in the computation of the graduate GPA, a student must earn a grade of B or above in each of these specified, required courses if they are taken after the completion of the baccalaureate degree..

| MGT | 504 | Business Organization and Administration (3) |
| :--- | :--- | :--- |
| BA | 500 | Statistics and Quantitative Methods (3) |
| ACC | 200 | Principles of Financial Accounting (3) |


| EC | 222 | Principles of Macroeconomics (3) |
| :--- | :--- | :--- |
| FIN | 301 | Business Finance (3) |
| FIN | 292 | Legal and Social Environment (3) |
| MGT | 390 | Operations and Technology Management (3) |
| MKT | 301 | Principles of Marketing (3) |

Students who have adequate undergraduate preparation or who have satisfied the foundation requirements may enroll in MBA courses, given that all individual course prerequisites are met. Students without adequate preparation will only be allowed to take courses in fields of study in which the prerequisite course work has been completed.

Individuals who do not have a baccalaureate degree in a business field, but who have at least three years of prior mid-level management experience in an approved management experience in an approved managerial position(s) may request that a portion of the foundation course work be waived. Students must document their managerial experience(s) and approval must be granted by the graduate committee of the CCBA. Students in this category must complete a total of 18 hours of the foundation course work, including BA 500, EC 222, ACC 200, and FIN 301. The remaining six hours to be taken will be based on an evaluation by the MBA Director. For more information, contact the MBA Director, 110 Merrill Hall, phone 256-782-5778.

After completion of foundation course work, students may select either the general MBA or an MBA with an accounting concentration. The general MBA program is a total of 30 semester hours; the MBA with an accounting concentration is a total of 36 semester hours. NOTE: Only nine (9) graduate semester hours of course work taken prior to being fully admitted into the M.B.A. program may be counted toward the degree.

# MASTER OF BUSINESS ADMINISTRATION <br> General 

| ACC | 512 | Accounting Information Analysis (3) |
| :--- | :--- | :--- |
| BA | 510 | Business Forecasting (3) |
| BA | 540 | Technology \& Total Quality (3) |
| BA | 587 | Business Policy \& Strategy (3) |
| EC | 515 | Managerial Economics (3) |
| FIN | 515 | Financial Management (3) |
| MKT | 513 | Marketing Administration (3) |

Select one from the following:
BA 501 Organizational Communication (3)
MGT 522 Human Resources Seminar (3)
MGT 535 Organization \& Leadership (3)
Select one from the following:
FIN 590 International Finance (3)
MGT 590 International Management (3)
MKT 590 International Marketing (3)
1 elective: 3 semester hours (Electives may be selected from courses numbered 400G and above from among any of the approved CCBA courses listed in the Course Description section.)

TOTAL REQUIREMENTS FOR THIS M.B.A. PROGRAM - 30 hours

## MASTER OF BUSINESS ADMINISTRATION Accounting Concentration

ACC 512 Accounting Information Analysis (3)

BA 510
BA 540
BA 58

Business Forecasting (3)
Technology \& Total Quality (3)
Business Policy \& Strategy (3)

| EC | 515 | Managerial Economics (3) |
| :--- | :--- | :--- |
| FIN | 515 | Financial Management (3) |
| FIN | 590 | International Finance (3) |
| MKT | 513 | Marketing Administration (3) |

Select one from the following:
BA 501 Organizational Communication (3)
MGT 522 Human Resources Seminar (3)
MGT 535 Organization \& Leadership (3)
3 electives: 9 semester hours (Electives may be selected from courses numbered 400G and above from among any of the approved Accounting courses listed in the Course description section.)

TOTAL REQUIREMENTS FOR THIS M.B.A. PROGRAM - 36 hours

## ACCOUNTING COURSES

## Prefix ACC

(Students who select the Accounting Concentration may be required to take additional undergraduate accounting courses to satisfy specific course prerequisites.)

401G. Advanced Accounting Information Systems (3). An overview of accounting information systems designed to illustrate the importance of technology with exposure to information systems. Prerequisites: ACC 200, 210, and 301.
476G. Advanced Income Tax Accounting (3). Advanced federal tax concepts, including income taxation of corporations, partnerships, estates \& trusts; also includes a study of gift and estate taxes. Prerequisites: ACC 372 or the equivalent.
490G. Advanced Auditing (3). Standards and procedures relative to independent audits and accounting services rendered by Certified Public Accountants: includes professional practice issues, risk analysis evidence gathering, and reporting. Prerequisite: ACC 477 or equivalent.
510. Contemporary Issues in Accounting (3). Seminar on current issues within the accounting profession with emphasis on the setting of accounting standards, ethics, and social issues.
512. Accounting Information Analysis (3). Analysis and use of accounting data as a tool for managerial decision making; analysis of financial reporting, cost behavior, budgeting, and decision making. Prerequisite: ACC 200 or equivalent.
523. Cost Control and Profit Planning (3). Comprehensive profit planning through variable budgeting and cost controls; entire case study in tactical and strategic budgeting with performance reports; advanced control systems, and decision-making. Prerequisite: ACC 512.
589. Internship in Accounting (3). (Grade of Pass or Fail only.) Provides the graduate student with practical experience in the field of accounting via a "real-world" work experience arrangement with an accounting firm. Prerequisites: Permission of the instructor and approval of the MBA Director.
598. Independent Research (3). In-depth study of selected topic(s). Prerequisite: Completion of 18 semester hours of graduate courses including a three semester hour quantitative course. Permission of the instructor and approval of the MBA Director.

## BUSINESS ADMINISTRATION COURSES

## Prefix BA

500. Statistics and Quantitative Methods (3). Quantitative methods and statistics as applied to business and economics; topics include optimization, descriptive statistics, probability theory, sampling and statistical inference, hypothesis testing, regression and correlation analysis, and analysis of variance.
501. Organizational Communication (3). Focuses on prevalent communication skills in complex organizations; students participate in a variety of communication-related activities including presentational speaking, interviewing, and research and writing an effective business report; topics
include interpersonal communications in a diverse work environment, nonverbal communication, small group interactions, questionnaire development, and communicational technology.
502. Business Forecasting (3). Coverage of various forecasting techniques, simultaneous equation models, and use of input-output analysis; emphasis on time-series analysis with construction and estimation of time-series models. Prerequisites: BA 500.
503. Technology and Total Quality (3). Integrative study of the effects of technology management on the American economy and the concepts of a total quality management system. Prerequisites: BA 500.
504. Business Policy \& Strategy (3). Integrative study of strategic decision-making and policy formulation; extensive reading and case analysis. Prerequisites: at least 21 hours of course work including ACC 512, FIN 515, MKT 513, EC 515, and BA 510.

## ECONOMICS COURSES

## Prefix EC

485G. Field Experiences (3). Field trip to New York City to study important New York business and economic sites, such as the New York Stock Exchange, NASDAQ, the Federal Reserve, the Mercantile Exchange, and the Fulton Fish Market. Students also tour the Garment District, a large advertising agency, a television studio, a large firm in the fashion industry, and other relevant sites.
515. Managerial Economics (3). Advanced study of microeconomic principles, with analysis applied to actual business management situations. Prerequisites: EC 200.
589. Internship in Economics (3). (Grade of Pass or Fail only.) Provides the graduate student with practical experience in the field of economics via a "real-world" work experience arrangement. Prerequisites: Permission of the instructor and approval of the MBA Director.
598. Independent Research (3). In-depth study of selected topic(s). Prerequisites: Completion of 18 semester hours of graduate courses including a three-semester hour quantitative course. Permission of the instructor and approval of the MBA Director.

## FINANCE COURSES

## Prefix FIN

474G. Investments (3). Investment principles and practices; emphasis on security analysis, portfolio management, and the individual investor.
482G. Portfolio Management (3). Examines advanced topics for investment management and discusses their application in decision making.
510. The Banking Environment (3). Theory and practice of commercial banking; history of our banking system; a banks structure, function, organization, and operation.
515. Financial Management (3). Study of financial decision concepts for maximizing value of the firm involving the financing, investment, and dividend decisions.
521. Money and Capital Markets (3). Structure and institutions of money and capital markets; current practices of private and public borrowers and lenders; interest rate patterns, and governmental policies.
589. Internship in Finance (3). (Grade of Pass or Fail only.) Provides the graduate student with practical experience in the field of finance via a "real-world" work experience arrangement. Prerequisites: Permission of the instructor and approval of the MBA Director.
590. International Finance (3). Integrated treatment of theory and application relative to U.S. and international financial activities including financial institutions, trade agreements, economic policies, investment action, and multinational enterprise.
598. Independent Research (3). In-depth study of selected topic(s). Prerequisites: Completion of 18 semester hours of graduate courses including a three-semester hour quantitative course. Permission of the instructor and approval of the MBA Director.

## MANAGEMENT COURSES

## Prefix MGT

504. Business Organization and Administration (3). Accelerated course in management concepts, functions, and practices; consideration of structural and behavioral aspects of organization and management.
505. Human Resources Seminar (3). Industrial personnel and manpower management including personnel selection and placement, manpower planning, development and appraisal, and the role of human resource management. Prerequisite: MGT 504 or the equivalent.
506. Organization and Leadership (3). Advanced study of behavior in various organizational environments including individual and small group communications; modern leadership theories, self-analysis and skill building; practical applications. Pre-requisite: MGT 504 or the equivalent.
507. Internship in Management (3). (Grade of Pass or Fail only.) Provides the graduate student with practical experience in the field of management via a "real-world" work experience arrangement. Prerequisites: Permission of the instructor and approval of the MBA Director.
508. International Management (3). Examination of issues arising in management of international operations. Prerequisite: MGT 504 or the equivalent.
509. Independent Research (3). In-depth study of selected topic(s). Prerequisites: Completion of 18 semester hours of graduate courses including a three-semester hour quantitative course. Permission of the instructor and approval of the MBA Director.

## MARKETING COURSES

## Prefix MKT

513. Marketing Administration (3). Executive level analysis of marketing strategies involved in market segmentation, pricing, promotion, product development, and distribution channels.
514. Contemporary Issues in Marketing (3). Investigation of current literature, problems, and changes/opportunities taking place in the field of marketing; seminar course that includes lecture, discussion, and supervised student research into assigned topics. Prerequisite: MKT 513.
515. Internship in Marketing (3). (Grade of Pass or Fail only.) Provides the graduate student with practical experience in the field of marketing via a "real-world" work experience arrangement. Prerequisites: Permission of the instructor and approval of the MBA Director.
516. International Marketing (3). Impact of cultural differences on target markets and marketing strategy examination; trade barriers and methods of entry considered; course depends heavily on case writing and presentation. Prerequisite: MKT 513.
517. Independent Research (3). In-depth study of selected topic(s). Prerequisites: Completion of 18 semester hours of graduate courses including a three-semester hour quantitative course. Permission of the instructor and approval of the MBA Director.

## CHEMISTRY

The Department of Physical and Earth Sciences offers supporting courses for the Master of Arts with a major in general studies. For students majoring in secondary education with a teaching field in general science, supporting courses are offered for the Master of Science in Education and Educational Specialist degrees. A graduate program is not offered in chemistry.

## CHEMISTRY COURSE

## Prefix CY

430G. Environmental Chemistry (3). Introductions to water, air, and soil quality and their measurements; problems, regulations, treatment, and ultimate disposal of hazardous and toxic waster materials; spill clean-up, groundwater transport, land disposal, incineration and treatment technologies discussed. Prerequisites: CY 232 and 321.
471G. Toxicological Chemistry (3). Study of the principles of toxicology including identification of, characterization of, and risk from environmental exposures to toxic substances. Prerequisite: CY 232.
500. Chemistry for Teachers (3). Designed for teachers, this course will reinforce and extend basic concepts in chemistry covered in the Science Course of Study. (May be used in the general science teaching field with a major in secondary education.)

COMPUTER SYSTEMS
AND SOFTWARE DESIGN
The Department of Mathematical, Computing and Information Sciences offers the Master of Science (M.S.) with a major in computer systems and software design and supporting courses for the Master of Arts with a major in general studies.

## ADMISSION REQUIREMENTS FOR THE MASTER OF SCIENCE WITH A MAJOR IN COMPUTER SYSTEMS AND SOFTWARE DESIGN

Applicants for the M.S. with a major in computer systems and software design must submit:

1. Completed JSU application
2. Non-refundable $\$ 20.00$ application processing fee
3. Three "Graduate Reference Forms" completed by individuals who can provide qualitative assessment of applicant's potential for success in graduate course work and citing potential professional leadership ability.. This form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm.
4. Official transcript(s) from all postsecondary institutions attended. (Students who have previously attended JSU do not need to request a transcript from the University. It will be automatically received once a student has filed an application for graduate studies.)
5. Official test scores on the Graduate Record Examination (GRE) or the Graduate Management Admission Test (GMAT). The GRE or GMAT must be taken within five years of enrollment.

In addition to meeting the general admission requirements of the College of Graduate Studies, applicants for the M.S. with a major in computer systems and software design must have the equivalent of an undergraduate degree with a major in computer science, software engineering, or information systems as determined by the graduate computer science faculty. Applicants with degrees in related fields with three to five years experience in systems and software design may be considered. These applicants should have the equivalent of a minor in computer science including courses equivalent to Software Engineering I (CS 310), Software Engineering II (CS 491), Operating Systems (CS 350), Database Management Systems (CS 488), Data Structures (CS 331), Calculus (MS 141) and demonstrated proficiency in a procedural or objectoriented programming language. Applicants who are deficient in these areas may be required to take additional courses at the graduate and/or undergraduate levels.

## Unconditional Admission

To obtain unconditional admission into the M.S. with a major in computer systems and software design program, applicants must meet one of the following formula requirements.

450 times the undergraduate GPA on the initial undergraduate degree plus the total score of verbal, quantitative, and analytical measures of the General Test of the GRE is equal to or greater than a total of 2500 points;

## OR

200 times the undergraduate GPA on the initial undergraduate degree plus the GMAT score is equal to or greater than a total of 950 points;

450 times the undergraduate GPA on the last 64 hours attempted toward completion of the initial undergraduate degree plus the total score of verbal, quantitative, and analytical measures of the General Test of the GRE is equal to or greater than a total of 2850 points;

## OR

200 times the undergraduate GPA on the last 64 hours attempted toward completion of the initial undergraduate degree plus the GMAT score is equal to or greater than a total of 1000 points.

For purposes of computing the undergraduate GPA, a 4.0 grade-point scale is used. The plus ( + ) and minus (-) grades from undergraduate transcripts are not used in calculating the GPA.

Students receiving undergraduate degrees from institutions not accredited by a United States regional accrediting association must meet unconditional admission requirements.

## Conditional Admission

Any applicant failing to meet the requirements for unconditional admission, as defined above, will receive a letter to that effect from the dean of the College of Graduate Studies. Under exceptional circumstances, consideration for conditional admission may be given to a student meeting one of the following formula requirements:

450 times the undergraduate GPA average on the initial undergraduate degree plus the total score of verbal, quantitative, and analytical measures of the General Test of the GRE is equal to or greater than a total of 2100 points;

## OR

200 times the GPA on the initial undergraduate degree plus the GMAT score is equal to or greater than a total of 850 points;

## OR

450 times the undergraduate GPA on the last 64 hours attempted toward completion of the initial undergraduate degree plus the total score of verbal, quantitative, and analytical measures of the General Test of the GRE is equal to or greater than a total of 2250 points;

## OR

200 times the GPA on the last 64 hours attempted toward completion of the initial undergraduate degree plus the GMAT score is equal to or greater than a total of 900 points.

For purposes of computing the undergraduate GPA, a 4.0 grade-point scale is used. The plus ( + ) and minus (-) grades from undergraduate transcripts are not used in calculating the GPA.

All applications will be reviewed by the graduate faculty in the program. The faculty will submit to the dean of the College of Graduate Studies its recommendation on the conditional admission of each applicant. The dean of the College of Graduate Studies will make the final decision on the conditional admission of the student.

Students who are granted conditional admission must achieve a GPA of at least 3.0 on the first 12 graduate hours attempted within the time frame specified by the graduate faculty and indicated in writing to the student. Failure to comply will result in the students being dropped from the program.

## MINIMUM REQUIREMENTS FOR THE DEGREE

A total of 30 semester hours in graduate computer science courses is required, including successful completion of an oral and written proposal for the work to be done in the studio component, completion of a
comprehensive software system analysis, design, and deployment including all documentation, and a comprehensive oral examination covering the course work and studio component.

Students accepted into the M.S. with a major in computer systems and software design must complete a six-hour studio component. The student must meet with a graduate advisor who will select an Advisory Committee to supervise the studio component of the program. The advisor and committee are responsible for determining successful completion of the studio component of the program.

## Required Courses ( $\mathbf{1 5}$ semester hours):

| CS | 501 | Database Management Systems (3) |
| :--- | :--- | :--- |
| CS | 521 | Applied Software Engineering I (3) |
| CS | 523 | Applied Software Engineering II (3) |
| CS | 534 | Emerging Software Architectures \& Methodologies (3) |
| CS | 542 | Software Cost Estimation \& Metrics (3) |

## Electives (select 9 semester hours from the following courses):

Note: A student may count no more than one 400G level course toward the degree.

| CS | 442 G | Compiler Construction (3) |
| :--- | :--- | :--- |
| CS | 443 G | Expert Systems (3) |
| or |  |  |
| CS | 444 G | Artificial Intelligence (3) |
| and |  |  |
| CS | 450 G | Computer Networks (3) |
| CS | 530 | Human-Computer Interaction (3) |
| CS | 544 | Applied Artificial Intelligence (3) |
| CS | 550 | Distributed Computing Systems (3) |
| CS | 553 | Simulation, Modeling \& Forecasting (3) |
| CS | 565 | Embedded \& Real-Time Software Development (3) |
| CS | 591 | Special Topics in Computer Science (3) |
| CS | 592 | Special Topics in Computer Science (3) |

## Studio Component ( 6 semester hours):

CS 595 Studio Component (3)
CS 596 Studio Component (3)

## 30 semester hours required for this degree

## COMPUTER SCIENCE COURSES

## Prefix CS

432G. Computer Graphics (3). 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.
442G. Compiler Construction (3). Theory of compiler construction; implementation of various scanning and parsing techniques, code generation, and storage allocation as components of a functional compiler. Prerequisite: A programming language and permission of instructor.
443G. Expert Systems (3). Definition, design, and development of expert systems. Prerequisite: A procedural or object-oriented programming language.
444G. Artificial Intelligence (3). Introduction to the principles and methods used in artificial intelligence programs with a focus on autonomous agents. Prerequisite: CS 331 or CS 350. Offered every two years during the fall semester.
450G. Computer Networking (3). Study of the computer interconnection and protocols with emphasis on network layers, error detection/correction, and topologies; project approach utilized. Prerequisite: CS 350.
500. Management Information Systems (3). Integrated systems and technologies among information processing, information transmission, and organization management; emphasis placed on systems analysis; students will complete a team project analyzing the needs of an application for a functioning organization.
501. Database Management Systems (3). Information as corporate resource, data modeling, database design, implementation strategies and administration; security, information centers, decision support systems, mini- and microcomputer environment; teams of students will design and implement a relational database application. Prerequisite: A programming language.
510. Introduction to Computing (3). Includes fundamental computer science concepts, computer programming, software engineering, data structures, and algorithms. (For graduate students with limited computer science backgrounds who wish to major in computer systems and software design.)
514. Introduction to Computer Systems (3). Study of operating systems, networks, and computer architecture; advanced systems programming using an object-oriented programming language. (For graduate students with limited computer science background who wish to major in computer systems and software design.) Prerequisite: Permission of the instructor.
521. Applied Software Engineering I (3). Focuses specifically on methods that guide software engineers from requirements to code; provides broad understanding of current methods, and specific skills in using these methods. Prerequisite: Comprehensive undergraduate course in software engineering or industrial software engineering experience with a large project.
523. Applied Software Engineering II (3). Provides knowledge and skills necessary to lead a project team, understand the relationship of software development to overall product engineering, and understand the software process. Prerequisite: CS 521.
530. Human-Computer Interaction (3). Human-computer interface, human performance, diversity, and mental models, interaction devices, dialog and interface styles, documentation, and usability testing. Prerequisite: CS 521. Offered every two years during the spring semester.
534. Emerging Software Architectures and Methodologies (3). Explores emerging technologies and contemporary development methodologies for large scale software systems; difficulties and benefits of software by component composition, component reuse and software architectures. Prerequisite: CS 523.
542. Software Cost Estimation and Metrics (3). Study of software development cost models, metrics, and estimation techniques; emphasis on application of one or two models and tools. Prerequisite: CS 523.
544. Applied Artificial Intelligence (3). Survey of artificial intelligence emphasizing applications in business, industrial, and scientific system development; autonomous agents, data mining, pattern recognition, and machine vision. Prerequisites: CS 521 and CS 444G or permission of instructor. Offered every two years during the fall semester.
550. Distributed Computing Systems (3). Design and analysis of distributed computing systems; system architecture; load balancing and scheduling; remote procedure calls and message passing; distributed operating systems and database systems. Prerequisite: CS 450 and 521.
553. Simulation, Modeling, and Forecasting (3). Deterministic and stochastic models are studied; simulation techniques, languages, and programming packages used to implement simulation models; virtual reality simulations. Prerequisite: CS 521.
565. Embedded and Real-Time Software Development (3). In-depth study of requirements or real-time and embedded software; examination of operating systems, languages, and devices that support these systems; real-time multimedia applications emphasized. Prerequisite: CS 523.
591, 592. Special Topics in Computer Science (3) (3). Selected topics from current problems in computing; topics vary from semester to semester. May be taken twice for credit. Prerequisite: Permission of the advisor and approval of the department head.
595, 596. Studio Component (3) (3). Provides students with a laboratory for direct application of concepts learned in course work; students will produce a variety of software products. Prerequisite: Permission of the advisor and approval of department head.

## CRIMINAL JUSTICE

The Criminal Justice Department offers courses leading to the Master of Science with a major in criminal justice and supporting courses for the Master of Arts with a major in general studies. The department also offers an area of concentration in criminal justice within the Master of Public Administration degree program.

## ADMISSION REQUIREMENTS FOR THE MASTER OF SCIENCE WITH A MAJOR IN CRIMINAL JUSTICE

Applicants who meet the general admission requirements of the College of Graduate Studies are eligible for admission to the Master of Science with a major in criminal justice program. A particular undergraduate major is not specified for admission to this program.

## MINIMUM REQUIREMENTS FOR THE DEGREE

Non-Thesis Option: Total of 30 semester hours. The student must complete 15 semester hours in required criminal justice courses and 15 semester hours may be taken in a related field approved by the head of the Criminal Justice Department.

Thesis Option: Total of 30 semester hours. The student must complete 15 semester hours in required criminal justice courses and six semester hours of thesis. Nine semester hours may be taken in a related field approved by the head of the Criminal Justice Department. See "Thesis Options and Procedures" on page 33.

## Required criminal justice courses ( $\mathbf{1 5}$ semester hours):

CJ 500 Seminar in Contemporary Criminal Justice Issues (3)
CJ 501 Applied Data Analysis for Criminal Justice (3)
CJ 502 Research Methods in Criminal Justice (3)
CJ 505 Criminal Justice Administration (3)
CJ 521 Seminar in Criminological Theory (3)

## CRIMINAL JUSTICE COURSES

## Prefix CJ

500. Seminar in Contemporary Criminal Justice Issues (3). Overview of the criminal justice system and its various subsystems.
501. Applied Data Analysis for Criminal Justice (3). Emphasis on the analysis of original and secondary criminal justice data.
502. Research Methods in Criminal Justice (3). Social research methods and their application to administration of justice; in-depth examination of the role of social research in analysis, interpretation, and clarification of problems in the Criminal Justice System. (CJ 502 is cross-listed with PSC 502 and only one course may be counted for credit.) Prerequisite: CJ 501
503. Seminar in Law Enforcement (3). In-depth analysis of police problems and practices.
504. Comparative Criminal Justice (3). Critical comparative study of criminal justice systems in the U.S. with those in selected foreign countries including administration, organization, objectives, principal functions, and relationships with the people.
505. Criminal Justice Administration (3). Analysis of problems and issues confronting the administrator in a criminal justice setting.
506. Seminar in Juvenile Justice (3). Assessment of policies and practices of agencies involved in processing juvenile offenders through the Juvenile Justice System.
507. Seminar in Legal Issues (3). In-depth study of contemporary legal issues faced by criminal justice professionals with emphasis on constitutional problems, as well as the judicial review of administrative decisions made by criminal justice organizations.
508. Seminar in Corrections (3). Overview and critical analysis of contemporary correctional theory and practice.
509. Criminal Justice Planning, Evaluation, and Grant-Writing (3). A study of planning and evaluation in criminal justice agencies, programs, and the preparation of grant proposals. Prerequisite: CJ 501 and 502.
510. Directed Study in Criminal Justice (3). Preparation, completion, and submission of an acceptable individual project. Prerequisite: Permission of the instructor and approval of the department head.
511. Seminar in Forensic Investigation (3). Provinces of the court and jury; burden of proof, probability and documentary and physical evidence; expert witness and preparation of scientific exhibits for court.
512. Seminar in Criminological Theory (3). Analysis of historical and contemporary theories and analytical models of crime causation with emphasis on classical, positivist, social defense, and critical schools of thought.
513. Seminar in Victimology (3). Comprehensive study of victimization including victim-precipitated crimes; analysis of contemporary victim-compensation programs and victim restitution as a punitive measure.
514. International Criminality and National Security 3). National, international, and transnational terrorism and the problems they pose for the criminal justice system; prevention and control of terrorist activities.
515. Special Topics in Criminal Justice (3) (3). An examination of contemporary issues in criminal and juvenile justice not addressed in other courses. May be taken for a total of six credit hours.
516. Seminar in Criminal Behavior and Personality (3). A study of the typologies of delinquent and criminal behavior from behavioral and psychological perspectives with particular focus on clinical behaviors frequently associated with delinquents and criminals. Prerequisite: CJ 521 or permission of the instructor.
517. Seminar in Correctional Counseling (3). The study and practical application of effective correctional counseling and treatment methodologies for youthful and adult offenders. Prerequisite: CJ 527.
518. Graduate Seminar Series (1) (1) (1). (Grade of Pass or Fail only.) Seminar series dealing with current topics and issues in the field. No more than three hours credit may be earned.
519. Directed Reading (3) (3). Selected topics appropriate to student's course of study as determined by faculty advisor. Prerequisite: Permission of the instructor and approval of the department head.
520. Thesis (3) (3). (Grade of Pass or Fail only) Prerequisite: Approval of Application for Thesis Option. See "Thesis Option and Procedures" on pages 33.

## DRAMA

The Department of Drama offers supporting courses for the Master of Arts with a major in general studies. For students majoring in secondary education with a teaching field in English language arts, supporting courses are offered for the Master of Science in Education and Educational Specialist degrees. A graduate program is not offered in drama.

## DRAMA COURSES

## Prefix DR

443G. Oral Interpretation (3). Development of skill in reading aloud. Study of the methods used to convey the intellectual, emotional, and aesthetic values in literature to an audience.
475G. Special Problems in Drama (3). Individually designed and supervised projects combining research and practical work in specific areas of theatrical endeavor.
581. Directed Studies (3) (3). Independent research in areas of drama: literature, directing, acting, design, and education. May be repeated once.

## EDUCATION

The College of Education and Professional Studies offers courses leading to the Master of Science in Education (M.S.Ed.), the Master of Arts with a major in music and a concentration in music education (M.A.), and fifth-year Alabama Class A Teacher Certification. Sixth-year programs leading to the Educational Specialist (Ed.S.) and to Alabama Class AA Teacher Certification are also offered. Add-on fifth- and sixth-year teacher certification programs are also available.

The College also offers courses leading to the Master of Science with a major in counselor education. Two concentrations are offered within this major: school counseling and community agency counseling. A student seeking fifth-year Alabama Class A Teacher Certification must select the concentration in school counseling. The concentration in community agency counseling does not lead to teacher certification.

The College also offers the Alternative Fifth-Year Teacher Certification Program for students who completed a bachelor's degrees from a regionally accredited institution in a field other than teacher education or for initial certification in a second teaching field. Completion of this Alternative Fifth-Year Program leads to a M.S.Ed. and recommendation for fifth-year Alabama Class A Teacher Certification. Eligible teaching fields and admission requirements for the Alternative Fifth-Year Program can be found beginning on page 125.

All teacher education programs are approved by the State of Alabama Board of Education. The College of Education and Professional Studies at Jacksonville State University is accredited by the National Council for Accreditation of Teacher Education (NCATE), 2010 Massachusetts Avenue NW, Suite 500, Washington, D.C. 20036, phone: (202) 466-7496. Accreditation includes the initial teacher preparation and advanced levels of professional education programs offered at JSU.

The faculty of the College of Education and Professional Studies has adopted "The Developing Education Professional as Creative Decision-Maker" as its model, or metaphor, for teacher preparation programs. Teachers must prepare to take on the challenge of the decision-making process knowing that their educational advancement and consequently that of the students they serve, requires a personal commitment to lifelong learning. The various programs thus structured prepare teachers who enter the field armed with knowledge gleaned from both its rich history and its state-of-the-art scholarship.

Graduate degrees and teacher certification programs in education available at JSU are shown in the following table:

| Major | Teaching/ Instructional Support Field | Degree |  | Alabama Certification |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | M.S.Ed. | Ed.S. | A | AA |
| Counselor Education | School Counseling (P-12) | Xa | X | X | X |
| Early Childhood Education (P-3) |  | X | X | X | X |
| Early Childhood Special Education (P-3) |  | X |  | X |  |
| Educational Administration (P-12) |  | X | X | X | X |
| Elementary Education (K-6) |  | X | X | X | X |
| Library Media (P-12) |  | X |  | X |  |
| Music Education (P-12) | Instrumental Vocal-Choral | $\begin{aligned} & \mathrm{Xb} \\ & \mathrm{Xb} \end{aligned}$ |  | X X |  |
| Physical Education (P-12) |  | X | X | X | X |
| Reading Specialist (P-12) |  | X |  | X |  |
| Secondary Education$(6-12)$ | Biology | X | X | X | X |
|  | English Language Arts | X | X | X | X |
|  | General Science | X | X | X | X |
|  | History | X | X | X | X |
|  | Mathematics | X | X | X | X |
|  | Social Science | X | X | X | X |
| Special Education | Collaborative | X | X | X | X |
|  | Teacher (K-6) |  |  |  |  |
|  | Collaborative Teacher (6-12) | X | X | X | X |

[^1]
## ADMISSION REQUIREMENTS FOR THE EDUCATIONAL SPECIALIST DEGREE

Applicants for the Educational Specialist degree must have a master's degree from a regionally accredited institution with a GPA of 3.25 on all previous graduate course work attempted.

Applicants must supply one official transcript from each postsecondary institution attended. Students who have previously attended JSU do not need to request a transcript from the University. The transcript will be automatically received once a student has filed an application for graduate studies.

Applicants must supply copies of all teaching certificates held.
Applicants must also submit three "Graduate Reference Forms." This form is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm.

In addition, for all fields other than special education and community agency counseling, the applicants must possess fifth-year certification in the same area as the chosen concentration in the educational specialist program. Applicants selecting the concentration in special education (collaborative K-6 or collaborative 612) must possess fifth-year teacher certification in some area of education. Applicants selecting the concentration in community agency counseling must possess a master's degree in community agency counseling or its equivalent, as determined by the graduate program faculty.

Applicants who have submitted an application for admission to the College of Graduate Studies may be permitted to enroll for one semester of graduate course work while completing all other application requirements. Until all admission requirements have been completed and the student is admitted to graduate studies, the student will not be allowed to register or pre-register for subsequent semesters.

## Unconditional Admission

Unconditional admission requires a GPA of 3.25 on all previous graduate course work attempted.

## Conditional Admission

Any applicant failing to meet the GPA requirement for unconditional admission may be conditionally admitted with approval of the dean of the College of Graduate Studies and the program faculty. A student admitted on a conditional basis must attain a minimum GPA of 3.25 on the first 12 semester hours of graduate courses attempted.

## MINIMUM REQUIREMENTS FOR THE EDUCATIONAL SPECIALIST DEGREE

The course requirements and the minimum number of semester hours for each program are provided on each individual program of study sheet in the subsequent section of this Bulletin.

An overall GPA of 3.25 on a 4.0 scale is required on all course work attempted for the educational specialist degree and sixth-year add-on certification programs.

Any course completed at the master's degree or for fifth-year add-on teacher certification may not be repeated or counted for the Ed.S. 400G level courses are not applicable toward the Ed.S. degree.

## CLASS AA TEACHER CERTIFICATION REQUIREMENTS

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. Students in all graduate level teacher education programs must schedule their course work each semester with approval of their faculty advisors. Issuance of Alabama teaching certificates is the legal responsibility of the Alabama State Department of Education. Universities cannot issue a professional certificate. To be eligible to apply for certification, 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.

1. For all fields other than special education, the applicants must possess fifth-year certification in the same area as the chosen concentration in the educational specialist program. Applicants selecting the concentration in special education (collaborative K-6 or collaborative 6-12) must possess fifthyear teacher certification in some area of education.
2. Students apply for certification in the Educational Specialist program upon graduation. Alabama State Department of Education regulations are subject to change; therefore, it is recommended that students apply for certification upon graduation. Students, during their last semester of course work, are to obtain application forms for certification from the Teacher Service Center, 207 Ramona Wood Hall. The appropriate fees (money order or Cashier's Check made payable to the Alabama State Department of Education), which are forwarded with the student's credits to the State Department of Education, should accompany each application. 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.
3. Students certified in states other than Alabama who wish to apply for certification in Alabama upon completion of the educational specialist degree must apply for Alabama certification on the undergraduate and master's levels prior to applying for the educational specialist level certification. Earning an educational specialist degree at JSU does not automatically entitle a student to an Alabama certificate without first holding the appropriate undergraduate and master's certificates.
4. Recommendation for certification must be made within five years of program completion. Recommendation after five years requires completion of a current program.

## ADMISSION REQUIREMENTS FOR MASTERS' PROGRAMS IN EDUCATION

In addition to meeting general admission requirements of the College of Graduate Studies, applicants for masters' programs in education must possess the appropriate fourth-year (bachelor's) teaching certificate in all programs except the concentration in community agency counseling within the major of counselor education. In this concentration, a particular undergraduate major is not specified for admission.

Applicants for the reading specialist program must possess a fourth-year teaching certificate in a teaching or instructional support field and verification of completion of two years of teaching experience in the public schools at the early childhood, elementary, or secondary levels.

Applicants meeting general admission requirements of the College of Graduate Studies who plan to complete the Alternative Fifth-Year Teacher Certification Program must meet admission requirements of that program as stated on pages 122-124.

## MINIMUM REQUIREMENTS FOR MASTERS' PROGRAMS IN EDUCATION

The course requirements and the minimum number of semester hours for each program are provided on each individual program of study sheet in the subsequent section of this Bulletin. A written comprehensive examination is required of all candidates for the master's degree and fifth-year add-on teacher certification programs. In preparation for the comprehensive examination, candidates should contact their academic advisor.

An overall GPA of 3.0 on a 4.0 scale is required on all course work attempted in all approved teacher education programs other than educational administration. The major in educational administration requires a GPA of 3.25 on a 4.0 scale on all course work for the program.

The master's program in secondary education offers the following teaching fields: biology, English language arts, general science, history, mathematics, and social science. At least one-half of the graduate courses taken in the teaching field within the secondary education major must be numbered 500 and no more than three hours in the teaching field may be transferred. Also, a student majoring in secondary education is required to have a minimum GPA of 3.0 in the course work of the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## CLASS A TEACHER CERTIFICATION REQUIREMENTS

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. Modifications in students' programs may become necessary. Students in all graduate level teacher education programs must schedule their course work each semester with approval of their faculty advisors. Issuance of Alabama teaching certificates is the legal responsibility of the Alabama State Department of Education. Universities cannot issue a professional certificate. To be eligible to apply for certification, 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.

1. Students must hold or meet requirements for a valid baccalaureate level (undergraduate) teaching certificate in the same area of Class A certification they wish to complete at the master's level. However, the areas of educational administration, library media, reading specialist, school counseling, special education: collaborative teacher (K-6) and collaborative teacher (6-12), are exceptions to this requirement. Students may complete a master's in any of these specific areas by holding a valid baccalaureate level teaching certificate in any area. To complete a Master of Science in Education (M.S.Ed.) in early childhood special education, students must have certification at the baccalaureate level in the areas of ECE, EED, or any area of special education except gifted-talented.
2. Students must have two years of satisfactory educational experience before the appropriate master's level (Class A) certificate in educational administration, library media, or school counseling can be issued. Satisfactory educational experience includes full-time educational work in (a) any state or local public school, regionally accredited postsecondary school, educational agency, or educational association, (b) an accredited state registered, state-approved and/or church-related nonpublic school; and rehabilitation facilities for P-12 students.
3. Alabama State Department of Education regulations are subject to change; therefore, it is recommended that students apply for certification upon graduation.

Students, during their last semester of course work, are to obtain application forms for certification from the Teacher Service Center, 207 Ramona Wood Hall. The appropriate fees (money order or Cashier's Check made payable to the Alabama State Department of Education), which are forwarded with the student's credits to the State Department of Education, should accompany each application. 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.
4. Students who hold a master's degree and master's level (Class A) certification may add-on other teaching fields or instructional support areas by contacting the Teacher Service Center for an evaluation. A written comprehensive examination is required of all candidates for the master's degrees and for master's level add-on teacher certification programs.
5. Students certified in states other than Alabama who wish to apply for master's level certification in Alabama upon completion of the master's degree must apply for Alabama certification on the undergraduate level prior to applying for the master's level certification. Students must be eligible for undergraduate certification in the teaching field(s) in which master's level certification is sought. Earning a master's degree at JSU does not automatically entitle a student to an Alabama certificate without first holding the appropriate undergraduate certificate.
6. Recommendation for certification must be made within five years of program completion. Recommendation after five years requires completion of a current program.

## PROGRAMS OF STUDY FOR EDUCATION

Programs of study for the education degree and add-on certification programs provide a detailed description of the course requirements for each program. Students should bring the Graduate Bulletin they are following with them when seeking advisement.

The programs of study listed below by degree, major, and concentration are included on the pages indicated:

## Educational Specialist

Community Agency Counseling .................................................................................................... 79
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Educational Administration............................................................................................................... 81
Elementary Education ..................................................................................................................... 82
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Biology .............................................................................................................................. 85
English Language Arts ..................................................................................................... 86
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Educational Administration............................................................................................................. 96
Elementary Education ....................................................................................................................... 98
Elementary Education - Technology Option................................................................................... 99
Library Media.............................................................................................................................. 100
Library Media - Technology Option ............................................................................................ 101
Physical Education ....................................................................................................................... 102
Reading Specialist .......................................................................................................................... 103
Secondary Education Subject Matter
Biology ............................................................................................................................. 104
Biology - Technology Option........................................................................................... 105
English Language Arts ........................................................................................................ 106
English Language Arts - Technology Option.................................................................... 107
General Science.................................................................................................................. 108
General Science - Technology Option ............................................................................. 109
History ............................................................................................................................. 110
History - Technology Option ........................................................................................... 111
Mathematics ....................................................................................................................... 112
Mathematics - Technology Option.................................................................................. 113
Social Science.................................................................................................................... 114
Social Science - Technology Option ............................................................................... 115
Special Education/Collaborative Teacher (K-6)............................................................................ 116
Special Education/Collaborative Teacher (6-12) ........................................................................... 117
Master of Arts
Music Education/Instrumental........................................................................................................ 118
Music Education/Vocal-Choral ....................................................................................................... 119

Master of Science
School Counseling.................................................................................................................. 120
Community Agency Counseling .............................................................................................. 121
Descriptions of the courses listed in the programs of study are found on pages 141-150.
Programs of study for Alternative Fifth-Year Teacher Certification Programs are also provided, beginning on page 126-140.

Course listings and requirements for master's level add-on certification programs are found on page 96 for educational administration, page 100 for library media, page 103 for reading specialist, and page 120 for school counseling.

## EDUCATIONAL SPECIALIST <br> MAJOR: EDUCATION <br> CONCENTRATION: COMMUNITY AGENCY COUNSELING

## Basic Requirements ( $\mathbf{1 5 - 1 8}$ semester hours):

EFD 615 Leadership in Education (3)
EFD 632 Assessment in Education (3)
EFD 681 Problems in Education I (3)
(To be taken toward the end of the program.)
EFD 682 Problems in Education II (3) (Prerequisite: EFD 681)
(Must be taken in the last semester of enrollment.)
EAD 564 Law and Politics of Education (3)
*SPE $500 \quad$ Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

## Concentration Requirements (12 semester hours):

ECG 521 Program Development (3)
ECG 693 Supervision in Counseling (3)

## Choose Two from the following:

ECG 545 Consultation/Interventions (3)
ECG 558 Counseling Children/Adolescents (3)
ECG 634 Advanced Counseling Theories (3)
ECG 637 Advanced Career Counseling (3)
ECG 646 Advanced Group Procedures in Counseling (3)
EPY 592 Individual/Group Appraisal (3)

## *Elective: $\mathbf{0}$ or $\mathbf{3}$ semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 500 or 600 levels.

## 30 Semester Hours Required for this Degree

Notes:
An overall GPA of 3.25 on a 4.0 scale on all course work attempted is required for this program.
Courses used toward the master's degree may not be repeated or counted for the Ed.S. degree.

# EDUCATIONAL SPECIALIST <br> MAJOR: EDUCATION <br> CONCENTRATION: EARLY CHILDHOOD EDUCATION (P-3) 

## Core Requirements ( $\mathbf{1 5 - 1 8}$ semester hours):

EFD 615 Leadership in Education (3)
EFD 632 Assessment in Education (3)
EFD 681 Problems in Education I (3)
(To be taken toward the end of the program.)
EFD 682 Problems in Education II (3) (Prerequisite: EFD 681)
(Must be taken in the last semester of enrollment.)
EAD 564 Law and Politics of Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

## Concentration Requirements (12 semester hours):

ECE 631 Seminar in ECE: Teacher as Researcher/Issues and Trends (3)
ECE 642 Professional Publications in Early Childhood Education (3)
(Prerequisite: ECE 631)
By faculty advisement, choose six (6) graduate semester hours from early childhood education courses. Graduate courses selected to meet this concentration requirement must be numbered at the 500 or 600 levels.

## *Elective: $\mathbf{0}$ or 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 500 or 600 levels.

## 30 Semester Hours Required for this Degree

Notes:
An overall GPA of 3.25 on a 4.0 scale on all course work attempted is required for this program.
Courses used toward the master's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

## EDUCATIONAL SPECIALIST MAJOR: EDUCATIONAL ADMINISTRATION (P-12)

## Core Requirements (27-30 semester hours):

EAD 610 Research in Educational Administration (3)
EAD 622 Effective Schools Research (3)
EAD 636 School Plant Planning (3)
EAD 637 School Personnel Administration (3)
EAD 648 Curriculum Issues in Administration (3)
EAD 655 Supervision and Staff Development (3)
EAD 681 Problems in Educational Administration I (3)
(To be taken toward the end of the program.)
EAD 682 Problems in Educational Administration II (3) (Prerequisite: EAD 681)
(Must be taken in the last semester of enrollment.)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

Choose One from the following:
EFD 531 Philosophy of Education (3)
EFD 532 Social Foundations of Education (3)
EFD 552 Diversity Issues in Education (3)
EFD 594 Seminar in Contemporary Education (3)

* Elective: 0 or 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 500 or 600 levels.

## 30 Semester Hours Required for this Degree

## Notes:

An overall GPA of 3.25 on a 4.0 scale on all course work attempted is required for this program.
Courses used toward the master's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

# EDUCATIONAL SPECIALIST MAJOR: EDUCATION CONCENTRATION: ELEMENTARY EDUCATION (K-6) 

## Basic Requirements ( $\mathbf{1 5 - 1 8}$ semester hours):

EFD 615 Leadership in Education (3)
EFD 632 Assessment in Education (3)
EFD 681 Problems in Education I (3)
(To be taken toward the end of the program.)
EFD 682 Problems in Education II (3) (Prerequisite: EFD 681)
(Must be taken in the last semester of enrollment.)
EAD 564 Law and Politics of Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

## Concentration ( $\mathbf{1 2}$ semester hours):

EED 631 Seminar in EED: Teacher as Researcher/Issues and Trends (3)
EED 642 Professional Publications in Elementary Education (3)
(Prerequisite: EED 631)
By faculty advisement, choose six (6) graduate semester hours in elementary education courses. Graduate courses selected to meet this concentration requirement must be numbered at the 500 or 600 levels.

## *Elective: $\mathbf{0}$ or 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 500 or 600 levels.

## 30 Semester Hours Required for this Degree

## Notes:

An overall GPA of 3.25 on a 4.0 scale on all course work attempted is required for this program.
Courses used toward the master's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

## EDUCATIONAL SPECIALIST

MAJOR: EDUCATION
CONCENTRATION: PHYSICAL EDUCATION (P-12)

## Core Requirements ( $\mathbf{1 5 - 1 8}$ semester hours):

EFD 615 Leadership in Education (3)
EFD 632 Assessment in Education (3)
EFD 681 Problems in Education I (3)
(To be taken toward the end of the program.)
EFD 682 Problems in Education II (3) (Prerequisite: EFD 681)
(Must be taken in the last semester of enrollment.)
EAD 564 Law and Politics of Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

## Concentration (12 semester hours):

By faculty advisement, choose 12 graduate semester hours in physical education courses. Graduate courses selected to meet this concentration requirement must be numbered at the 500 or 600 levels.

## *Elective: $\mathbf{0}$ or 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses at the 500 or 600 levels.

## 30 Semester Hours Required for this Degree

## Notes:

An overall GPA of 3.25 on a 4.0 scale on all course work attempted is required for this program.
Courses used toward the master's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

# EDUCATIONAL SPECIALIST MAJOR: EDUCATION CONCENTRATION: SCHOOL COUNSELING (P-12) 

## Core Requirements ( $\mathbf{1 5 - 1 8}$ semester hours):

EFD 615 Leadership in Education (3)
EFD 632 Assessment in Education (3)
EFD 681 Problems in Education I (3)
(To be taken toward the end of the program.)
EFD 682 Problems in Education II (3) (Prerequisite: EFD 681)
(Must be taken in the last semester of enrollment.)
EAD 564 Law and Politics of Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

Concentration Requirements ( 12 semester hours):
Choose Four from the following
ECG 523 Multicultural Issues (3)
ECG 540 Diagnosis and Treatment of the DSM Disorders (3)
ECG 588 Crisis Counseling (3)
ECG 646 Advanced Group Procedures in Counseling (3)
ECG 693 Supervision in Counseling (3)
*Elective: 0 or 3 semester hours:
By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 500 or 600 levels.

30 Semester Hours Required for this Degree

## Notes:

An overall GPA of 3.25 on a 4.0 scale on all course work attempted is required for this program.
Courses used toward the mastrr's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

EDUCATIONAL SPECIALIST

## MAJOR: EDUCATION

CONCENTRATION: SECONDARY EDUCATION
SUBJECT MATTER
TEACHING FIELD: BIOLOGY (6-12)

## Core Requirements ( $\mathbf{1 5 - 1 8}$ semester hours):

EFD 615 Leadership in Education (3)
EFD 632 Assessment in Education (3)
EFD 681 Problems in Education I (3)
(To be taken toward the end of the program.)
EFD 682 Problems in Education II (3) (Prerequisite: EFD 681)
(Must be taken in the last semester of enrollment.)
EAD 564 Law and Politics of Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

Teaching Field Requirements ( 12 semester hours):
By faculty advisement, choose 12 graduate semester hours in biology or marine biology. Graduate courses selected to meet this concentration requirement must be numbered at the 500 or 600 levels.

## *Electives: 0 or 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 500 or 600 levels.

## 30 Semester Hours Required for this Degree

Notes:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field and an overall GPA of 3.25 on a 4.0 scale on all course work attempted in the program. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Courses used toward the master's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

# EDUCATIONAL SPECIALIST <br> MAJOR: EDUCATION <br> CONCENTRATION: SECONDARY EDUCATION <br> SUBJECT MATTER <br> TEACHING FIELD: ENGLISH LANGUAGE ARTS (6-12) 

## Core Requirements ( $\mathbf{1 5 - 1 8}$ semester hours):

EFD 615 Leadership in Education (3)
EFD 632 Assessment in Education (3)
EFD 681 Problems in Education I (3)
(To be taken toward the end of the program.)
EFD 682 Problems in Education II (3) (Prerequisite: EFD 681)
(Must be taken in the last semester of enrollment.)
EAD 564 Law and Politics of Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

Teaching Field Requirements ( 12 semester hours):
By faculty advisement, choose 12 graduate semester hours in English language arts to include at least one course from two of the following areas: English, speech, drama, or communication. Graduate courses selected to meet this concentration requirement must be numbered at the 500 or 600 levels.
*Electives: 0-3 semester hours:
By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 500 or 600 levels.

## 30 Semester Hours Required for this Degree

## Notes:

A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field and an overall GPA of 3.25 on a 4.0 scale on all course work attempted in the program. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Courses used toward the master's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

## EDUCATIONAL SPECIALIST <br> MAJOR: EDUCATION <br> CONCENTRATION: SECONDARY EDUCATION <br> SUBJECT MATTER <br> TEACHING FIELD: GENERAL SCIENCE (6-12)

## Core Requirements ( $\mathbf{1 5 - 1 8}$ semester hours):

| EFD | 615 | Leadership in Education (3) |
| :--- | :--- | :--- |
| EFD | 632 | Assessment in Education (3) |
| EFD | 681 | Problems in Education I (3) |

(To be taken toward the end of the program.)
EFD 682 Problems in Education II (3) (Prerequisite: EFD 681)
(Must be taken in the last semester of enrollment.)
EAD 564 Law and Politics of Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

Teaching Field Requirements ( 12 semester hours):
By faculty advisement, choose 12 graduate semester hours in general science to include at least one course from two of the following areas: biology, marine biology, chemistry, Earth \& space science, or physics. For Earth and space science courses, see course descriptions in the geography section of this Bulletin. Graduate courses selected to meet this concentration requirement must be numbered at the 500 or 600 levels.
*Electives: 0 or 3 semester hours:
By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 500 or 600 levels.

## 30 Semester Hours Required for this Degree

## Notes:

A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field and an overall GPA of 3.25 on a 4.0 scale on all course work attempted in the program. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Courses used toward the master's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

## EDUCATIONAL SPECIALIST <br> MAJOR: EDUCATION <br> CONCENTRATION: SECONDARY EDUCATION <br> SUBJECT MATTER <br> TEACHING FIELD: HISTORY (6-12)

## Core Requirements (15-18 semester hours):

EFD 615 Leadership in Education (3)
EFD 632 Assessment in Education (3)
EFD 681 Problems in Education I (3)
(To be taken towards the end of the program.)
EFD 682 Problems in Education II (3) (Prerequisite: EFD 681)
(Must be taken in the last semester of enrollment.)
EAD 564 Law and Politics of Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

Teaching Field Requirements ( 12 semester hours):
By faculty advisement, choose 12 graduate semester hours in history. Graduate courses selected to meet this concentration requirement must be numbered at the 500 or 600 levels.

## *Electives: 0 or 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 500 or 600 levels.

## 30 Semester Hours Required for this Degree

Notes:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field and an overall GPA of 3.25 on a 4.0 scale on all course work attempted in the program. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Courses used toward the master's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

## EDUCATIONAL SPECIALIST <br> MAJOR: EDUCATION <br> CONCENTRATION: SECONDARY EDUCATION <br> SUBJECT MATTER <br> TEACHING FIELD: MATHEMATICS (6-12)

## Core Requirements ( $\mathbf{1 5 - 1 8}$ semester hours):

EFD 615 Leadership in Education (3)
EFD 632 Assessment in Education (3)
EFD 681 Problems in Education I (3)
(To be taken toward the end of the program.)
EFD 682 Problems in Education II (3) (Prerequisite: EFD 681)
(Must be taken in the last semester of enrollment.)
EAD 564 Law and Politics of Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

Teaching Field Requirements ( 12 semester hours):
By faculty advisement, choose 12 graduate semester hours in mathematics. Graduate courses selected to meet this concentration requirement must be numbered at the 500 or 600 levels.
*Electives: 0 or 3 semester hours:
By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 500 or 600 levels.

## 30 Semester Hours Required for this Degree

## Notes:

A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field and an overall GPA of 3.25 on a 4.0 scale on all course work attempted in the program. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Courses used toward the master's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

## EDUCATIONAL SPECIALIST <br> MAJOR: EDUCATION <br> CONCENTRATION: SECONDARY EDUCATION <br> SUBJECT MATTER <br> TEACHING FIELD: SOCIAL SCIENCE (6-12)

## Core Requirements (15-18 semester hours):

$\begin{array}{lll}\text { EFD } & 615 & \text { Leadership in Education (3) } \\ \text { EFD } & 632 & \text { Assessment in Education (3) } \\ \text { EFD } & 681 & \text { Problems in Education I (3) }\end{array}$
(To be taken toward the end of the program.)
EFD 682 Problems in Education II (3) (Prerequisite: EFD 681)
(Must be taken in the last semester of enrollment.)
EAD 564 Law and Politics of Education (3)
*SPE $500 \quad$ Survey Cou rse in Special Education (3)
Students who have not previously satisfied the Special Education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

Teaching Field Requirements ( 12 semester hours):
By faculty advisement, choose 12 graduate semester hours in social science to include at least one course from two of the following areas: economics, geography, history, political science, or psychology. Graduate courses selected to meet this concentration requirement must be numbered at the 500 or 600 levels.
*Electives: 0 or 3 semester hours:
By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 500 or 600 levels.

## 30 Semester Hours Required for this Degree

Notes:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field and an overall GPA of 3.25 on a 4.0 scale on all course work attempted in the program. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Courses used toward the master's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

## EDUCATIONAL SPECIALIST MAJOR: EDUCATION CONCENTRATION: SPECIAL EDUCATION/ COLLABORATIVE TEACHER (K-6)

## Core Requirements (15-18 semester hours):

EFD 615 Leadership in Education (3)
EFD 632 Assessment in Education (3)
EFD 681 Problems in Education I (3)
(To be taken toward the end of the program.)
EFD 682 Problems in Education II (3) (Prerequisite: EFD 681)
(Must be taken in the last semester of enrollment.)
EAD 564 Law and Politics of Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

## Concentration (12 semester hours):

SPE 517 Preferred Instructional Practices for Elementary
Students with Disabilities of Learning and Behavior (3)
(Prerequisite: SPE 500, 516)
SPE 561 Research and Practices of Severe Disabilities, Elementary Level (3) (Prerequisite: SPE 560)
SPE 620 Curriculum Development Seminar in Special Education (3)
SPE 624 Writing for Professional Publication (3)

## *Elective: $\mathbf{0}$ or $\mathbf{3}$ semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 500 or 600 levels.

## 30 Semester Hours Required for this Degree

Notes:
Students who have master's level teacher certification in a field other than special education must complete SPE 533 and SPE 583.

An overall GPA of 3.25 on a 4.0 scale on all course work attempted is required for this program.
Courses used toward the master's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

## EDUCATIONAL SPECIALIST MAJOR: EDUCATION CONCENTRATION: SPECIAL EDUCATION/ COLLABORATIVE TEACHER (6-12)

## Core Requirements (15-18 semester hours):

EFD 615 Leadership in Education (3)
EFD 632 Assessment in Education (3)
EFD 681 Problems in Education I (3)
(To be taken toward the end of the program.)
EFD 682 Problems in Education II (3) (Prerequisite: EFD 681)
(Must be taken in the last semester of enrollment.)
EAD 564 Law and Politics of Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

## Concentration (12 semester hours):

SPE $518 \quad$ Preferred Instructional Practices for Secondary Students with Disabilities of Learning and Behavior (3)
(Prerequisite: SPE 500, 516)
SPE 562 Research and Practices of Severe Disabilities, Secondary Level (3)
(Prerequisite: SPE 560)
SPE $620 \quad$ Curriculum Development Seminar in Special Education (3)
SPE 624 Writing for Professional Publication (3)

## *Elective: 0 or 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 500 or 600 levels.

## 30 Semester Hours Required for this Degree

Notes:
Students who have master's level teacher certification in a field other than special education must complete SPE 533 and SPE 583.

An overall GPA of 3.25 on a 4.0 scale on all course work attempted is required for this program.
Courses used toward the master's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

## MASTER OF SCIENCE IN EDUCATION MAJOR: EARLY CHILDHOOD EDUCATION (P-3)

## Basic Requirements (12-15 semester hours):

EFD 500 Research in Education (3)
EFD 501 Tests and Measurements (3)
EFD 560 Psychological Principles of Learning (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirements at the undergraduate or graduate level must take SPE 500.

## Choose One from the following:

EFD 531 Philosophy of Education (3)
EFD 532 Social Foundations of Education (3)
EFD 594 Seminar in Contemporary Education (3)
Teaching Field Requirements ( 21 semester hours):
ECE 530 Designing Programs for Young Children (3)
Choose Six from the following:

| ECE | 500 | Materials and Methods (3) |
| :--- | :--- | :--- |
| ECE | 501 | Behavior and Development in Early Childhood (3) |
| ECE | 513 | Individualization of Education for Young Children (3) |
| ECE | 531 | Implementation \& Administration of ECE Programs (3) |
| ECE | 532 | Issues \& Trends in Early Childhood Education (3) |
| ECE | 533 | Enhancing Learning Through Children's Literature (3) |
| ECE | 538 | Teaching Reading in the ECE Classroom (3) |
| ECE | 539 | Teaching Writing in Early Childhood Education (3) |
| ECE | 540 | Intervention in the ECE Classroom (3) |

## 33-36* Semester Hours Required for this Degree

# MASTER OF SCIENCE IN EDUCATION MAJOR: EARLY CHILDHOOD EDUCATION (P-3) <br> TECHNOLOGY OPTION 

## Basic Requirements (9-12 semester hours):

EFD 500 Research in Education (3)
EFD 501 Tests and Measurements (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

Choose One from the following:
EFD 531 Philosophy of Education (3)
EFD 532 Social Foundations of Education (3)
EFD 560 Psychological Principles of Learning (3)
EFD 594 Seminar in Contemporary Education (3)
Instructional Technology Courses (9 semester hours):
EIM 503 Computer-Based Instructional Technologies (3)
EIM 504 Current and Emerging Instructional Technologies (3)
(Prerequisite: EIM 503)
EIM 505 Curriculum Integration of Technology (3)
(Prerequisite: EIM 504)
Teaching Field Requirements ( 21 semester hours)
ECE 530 Designing Programs for Young Children (3)

| Choose Six from the following: |  |  |  |
| :---: | :---: | :--- | :---: |
| ECE | 500 | Materials and Methods (3) |  |
| ECE | 501 | Behavior and Development in Early Childhood (3) |  |
| ECE | 513 | Individualization of Education for Young Children (3) |  |
| ECE | 531 | Implementation \& Administration of ECE Programs (3) |  |
| ECE | 532 | Issues \& Trends in Early Childhood Education (3) |  |
| ECE | 533 | Enhancing Learning Through Children's Literature (3) |  |
| ECE | 538 | Teaching Reading in the ECE Classroom (3) |  |
| ECE | 539 | Teaching Writing in Early Childhood Education (3) |  |
| ECE | 540 | Intervention in the ECE Classroom (3) |  |

## 39-42* Semester Hours Required for this Degree

## MASTER OF SCIENCE IN EDUCATION MAJOR: EARLY CHILDHOOD SPECIAL EDUCATION (P-3)

## Required Courses (18-21 semester hours):

ECE 512 Practicum in Early Childhood Special Education (3)
EFD 500 Research in Education (3)
SPE 505 Functional Communication (3)
SPE 522 Assessment of Special Populations (3)
SPE 533 Applying Behavior Analysis to Special Populations (3)
SPE 554 Medical, Ethical, and Legal Aspects of SPE (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

Teaching Field Requirements ( 18 semester hours):
ECE $500 \quad$ Materials \& Methods (3)
ECE 501 Behavior \& Development in Early Childhood (3)
ECE 513 Individualization of Education for Young Children (3)
SPE 560 Characteristics of Severe Disabilities (3)
SPE 561 Research and Practices of Severe Disabilities, Elementary Level (3)
SPE 586 Internship in Severe Disabilities (3)

## 36-39* Semester Hours Required for this Degree

Note:
Applicants to this program must hold bachelor's level certification (fourth-year) in one of the following areas: early childhood education, elementary education, or any area of special education except gifted-talented.

# MASTER OF SCIENCE IN EDUCATION MAJOR: EDUCATIONAL ADMINISTRATION (P-12) 

Basic Requirements (6-9 semester hours):
EFD 500 Research in Education (3)
EFD 502 Curriculum Development (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

Teaching Field Requirements ( 18 semester hours):
EAD 553 Instructional Leadership (3)
EAD 556 Management of Student Services (3)
EAD 562 School Administration (3)
EAD 563 School Finance (3)
EAD 564 Law and Politics of Education (3)
EAD 566 Internship in Educational Administration (3)
(offered Fall and Spring)

## Instructional Technology ( 3 semester hours): <br> Choose One from the following:

EIM 503 Computer-Based Instructional Technologies (3)
EIM 504 Current and Emerging Instructional Technologies (3)
(Prerequisite: EIM 503)
EIM 505 Curriculum Integration of Technology (3)
(Prerequisite: EIM 504)

## Educational Foundations (3 semester hours): <br> Choose One from the following:

EFD 531 Philosophy of Education (3)
EFD 532 Social Foundations of Education (3)
EFD 552 Diversity Issues in Education (3)
EFD 594 Seminar in Contemporary Education (3)

## 30-33* Semester Hours Required for this Degree

## Note:

An overall GPA of 3.25 on a 4.0 scale on all course work attempted is required for this program.

## Master's Level Add-On Certificate in Educational Administration

Students who hold a master's degree and fifth-year certification in a teaching or instructional support field may add fifth-year (master's) certification in educational administration by completing the following courses:

EAD 553 Instructional Leadership (3)
EAD 556 Management of Student Services (3)
EAD 562 School Administration (3)
EAD 563 School Finance (3)
EAD 564 Law and Politics of Education (3)
EAD 566 Internship in Educational Administration (3)
(offered Fall and Spring)
Prior graduate course work may be used to complete requirements for this certification. Course work will be evaluated and must be equivalent to the courses listed above. No more than six semester hours used in a prior fifth-year (master's) program may be used in this program.

A minimum of 12 graduate semester hours of course work for this certification must be completed at JSU. EAD 566, Internship in Educational Administration, must be completed at JSU. A written comprehensive examination is required of all candidates for the master's degree and for fifth-year add-on teacher certification programs.

Students seeking fifth-year certification in educational administration from states other than Alabama also may find these courses applicable. These students should obtain evaluations of their previous academic work from their respective state department of education prior to enrollment.

Students completing course work for certification apply for certification during their last semester of enrollment. Certification forms are available in the Teacher Service Center, 207 Ramona Wood Hall.

## Note:

An overall GPA of 3.25 on a 4.0 scale on all course work attempted is required for this master's level add-on certificate.

# MASTER OF SCIENCE IN EDUCATION <br> MAJOR: ELEMENTARY EDUCATION (K-6) 

## Basic Requirements ( $\mathbf{1 5 - 1 8}$ semester hours):

EFD 500 Research in Education (3)
EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

Choose One from the following:
EFD 531 Philosophy of Education (3)
EFD 532 Social Foundations of Education (3)
EFD 594 Seminar in Contemporary Education (3)
Teaching Field Requirements ( 15 semester hours):
EED 549 Reflective Teaching Practices (3)
Choose One from the following:
EED 542 Teaching Reading (3)
EED 569 Remedial Procedures in Elementary School (3)
Choose Three from the following:
EED 541 Teaching Mathematics (3)
EED 543 Teaching Social Studies (3)
EED 544 Teaching Science (3)
EED 545 Teaching Language Arts (3)
*Electives: 0 or $\mathbf{3}$ semester hours:
By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400G or 500 levels.

33 Semester Hours Required for this Degree

# MASTER OF SCIENCE IN EDUCATION <br> MAJOR: ELEMENTARY EDUCATION (K-6) <br> TECHNOLOGY OPTION 

Basic Requirements (12-15 semester hours):EFD 500 Research in Education (3)EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
*SPE 500 Survey Course in Special Education (3)Students who have not previously satisfied the special education requirement at theundergraduate or graduate level must take SPE 500.
Choose One from the following:
EFD 531 Philosophy of Education (3)
EFD 532 Social Foundations of Education (3)
EFD 560 Psychological Principles of Learning (3)
EFD 594 Seminar in Contemporary Education (3)
Instructional Technology Courses (9 semester hours):
EIM 503 Computer-Based Instructional Technologies (3)
EIM 504 Current and Emerging Instructional Technologies (3)
(Prerequisite: EIM 503)
EIM 505 Curriculum Integration of Technology (3)
(Prerequisite: EIM 504)
Teaching Field Requirements ( 12 semester hours):
EED 549 Reflective Teaching Practices (3)
Choose One from the following:

| EED | 542 | Teaching Reading (3) |
| :--- | :--- | :--- |
| EED | 569 | Remedial Procedures in Elementary Schools (3) |

Choose Two from the following:
EED 541 Teaching Mathematics (3)
EED 543 Teaching Social Studies (3)
EED 544 Teaching Science (3)
EED 545 Teaching Language Arts (3)

## 33-36* Semester Hours Required for this Degree

# MASTER OF SCIENCE IN EDUCATION MAJOR: LIBRARY MEDIA (P-12) 

Basic Requirements (9-12 semester hours):
EFD 500 Research in Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

| Choose Two from the following: |  |  |
| :---: | :---: | :--- |
| EFD | 502 | Curriculum Development (3) |
| EFD | 531 | Philosophy of Education (3) |
| EFD | 532 | Social Foundations of Education (3) |
| EFD | 560 | Psychological Principles of Learning (3) |
| EFD | 594 | Seminar in Contemporary Education (3) |

Library Media Courses ( $\mathbf{2 4}$ semester hours):
EIM 504 Current and Emerging Instructional Technologies (3)
EIM 512 Young Adult Literature (3)
EIM 513 Management of Media Centers (3)
EIM 514 Classification and Cataloging of Media (3)
EIM 515 Internship in Media Services (3)
EIM 520 Reference Materials (3)
EIM 550 Automation of the Media Center (3)
EIM 555 Instructional Design (3)
*Elective: 3 semester hours:
By faculty advisement, 3 graduate semester hours must be selected from course numbered at the 400 G or 500 levels.

## 36-39* Semester Hours Required for this Degree

## Master's Level Add-On Certification in Library Media (P-12)

Students who hold a master's degree and master's certification may add-on a master's library media certificate by completing the library media courses ( 24 semester hours) listed above.

Prior graduate course work may be used to complete requirements for this certification. Course work will be evaluated and must be equivalent to the courses listed above. No more than twelve semester hours of library media course work used in a prior fifth-year (master's) program may be used in this program. EIM 515, Internship in Media Services, must be completed at JSU.

A written comprehensive examination is required of all candidates for the master's degree and add-on teacher certification programs.

Students completing course work for certification apply for certification during their last semester of enrollment. Certification forms are available in the Teacher Service Center, 207 Ramona Wood Hall.

## MASTER OF SCIENCE IN EDUCATION MAJOR: LIBRARY MEDIA (P-12) <br> TECHNOLOGY OPTION

## Basic Requirements (6-9 semester hours):

EFD 500 Research in Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

## Choose One from the following:

EFD 502 Curriculum Development (3)
EFD 531 Philosophy of Education (3)
EFD 532 Social Foundations of Education (3)
EFD 560 Psychological Principles of Learning (3)
EFD 594 Seminar in Contemporary Education (3)
Instructional Technology Courses (9 semester hours):
EIM 503 Computer-Based Instructional Technologies (3)
EIM 504 Current and Emerging Instructional Technologies (3)
(Prerequisite: EIM 503)
EIM 505 Curriculum Integration of Technology (3)
(Prerequisite: EIM 504)
Library Media Courses ( $\mathbf{2 1}$ semester hours):
EIM 512 Young Adult Literature (3)
EIM 513 Management of Media Centers (3)
EIM 514 Classification and Cataloging of Media (3)
EIM 515 Internship in Media Services (3)
EIM 520 Reference Materials (3)
EIM 550 Automation of the Media Center (3)
EIM 555 Instructional Design (3)
36-39* Semester Hours Required for this Degree

# MASTER OF SCIENCE IN EDUCATION MAJOR: PHYSICAL EDUCATION (P-12) 

## Basic Requirements ( $\mathbf{1 5 - 1 8}$ semester hours):

EFD 500 Research in Education (3)
EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

Choose One from the following:<br>EFD 531 Philosophy of Education (3)<br>EFD 532 Social Foundations of Education (3)<br>EFD 594 Seminar in Contemporary Education (3)

## Teaching Field Requirements ( 18 semester hours):

Students must concentrate in one of the following areas: special physical education, physical education- pedagogy, or sports science. At least three (3) courses must be chosen from the area of concentration. The remaining courses may be selected from the courses listed below.

| Choose Six from the following: |  |  |
| :---: | :---: | :---: |
| Special Physical Education |  |  |
| PE | 580 | Adapted Physical Education (3) |
| PE | 581 | Advanced Practicum in Special P.E. (3) |
| PE | 582 | Research Seminar in Special Physical Education (3) |
| PE | 583 | Perceptual Motor Development (3) |
| Physical Education - Pedagogy |  |  |
| PE | 510 | Physical Education Curriculum (3) |
| PE | 540 | Physical Education and Law (3) |
| PE | 560 | Readings in Physical Education (3) |
| PE | 568 | Administration of Athletics (3) |
| PE | 585 | Physical Activity and the Aging Process (3) |
| Sports Science |  |  |
| PE | 502 | Sociology of Sport (3) |
| PE | 503 | Sport History (3) |
| PE | 530 | Physiology of Exercise (3) |
| PE | 535 | Skill Analysis (3) |
| PE | 539 | Diet and Performance (3) |
| PE | 545 | Stress Management Strategies for the HPE Teacher (3) |
| PE | 575 | Physical Fitness \& Health (3) |

# MASTER OF SCIENCE IN EDUCATION MAJOR: READING SPECIALIST (P-12) 


#### Abstract

Basic Requirements (9-12 semester hours): ECG 510 Introduction to Counseling (3) EFD 500 Research in Education (3) EFD 501 Test and Measurements (3) *SPE 500 Survey of Special Education (3) Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

Teaching Field Requirements (21 semester hours): RDG 538 Teaching Reading in ECE (3) RDG 542 Teaching Reading (3) RDG 545 Teaching Language Arts (3) RDG 567 Improvement of Reading in Secondary Schools (2) RDG 572 Assessment and Diagnosis in Reading (3) RDG 573 Intervention Strategies for Reading Instruction (3) RDG 574 Practicum for Teachers of Reading (2) RDG 575 Internship in Organization and Supervision of Reading Programs (2)

\section*{30-33* Semester Hours Required for this Degree}

Note: For admission to the M.S.Ed. with a major in reading specialist, applicants must hold a bachelor's degree in any area of education; two years of teaching experience; a bachelor's level certificate in early childhood education, elementary education, or special education; OR completion of two reading courses with at least one reading introductory course.


## Master's Level Add-On Certification in Reading Specialist (P-12)

Students who hold a master's degree and master's certification may add-on a reading specialist certificate by completing the reading specialist courses ( 21 semester hours) listed above under teaching field requirements.

Prior graduate course work may be used to complete requirements for this certification. Course work will be evaluated and must be equivalent to the courses listed above. No more than nine semester hours used in a prior fifth-year (master's) program may be used in this program.

A written comprehensive examination is required of all candidates for the master's degree and add-on teacher certification programs.

Students completing course work for certification apply for certification during their last semester of enrollment. Certification forms are available in the Teacher Service Center, 207 Ramona Wood Hall.

## MASTER OF SCIENCE IN EDUCATION MAJOR: SECONDARY EDUCATION SUBJECT MATTER TEACHING FIELD: BIOLOGY (6-12)

## Basic Requirements (18-21 semester hours):

EFD 500 Research in Education (3)
EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
ESE 582 Methods of Teaching in Secondary Schools (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

## Choose One from the following:

EFD 510 Proactive Orientation for Teachers (3)
EFD 531 Philosophy of Education (3)
EFD 532 Social Foundations of Education (3)
EFD 594 Seminar in Contemporary Education (3)

## Teaching Field Requirements ( 12 semester hours):

By faculty advisement, select 12 graduate semester hours in biology or marine biology. At least 6 of the 12 semester hours selected must be numbered at the 500 level.
*Elective: $\mathbf{3}$ semester hours:
By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400 G or 500 levels.

## 33-36* Semester Hours Required for this Degree

Note:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## MASTER OF SCIENCE IN EDUCATION MAJOR: SECONDARY EDUCATION SUBJECT MATTER TECHNOLOGY OPTION TEACHING FIELD: BIOLOGY (6-12)

## Basic Requirements (12-15 semester hours):

EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
ESE 582 Methods of Teaching in Secondary Schools (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

Instructional Technology Courses (9 semester hours):
EIM 503 Computer-Based Instructional Technologies (3)
EIM 504 Current and Emerging Instructional Technologies (3)
(Prerequisite: EIM 503)
EIM 505 Curriculum Integration of Technology (3)
(Prerequisite: EIM 504)
Teaching Field Requirements (12 semester hours):
By faculty advisement, select 12 graduate semester hours in biology or marine biology. At least 6 of the 12 semester hours selected must be numbered at the 500 level.

## 33-36* Semester Hours Required for this Degree

Note:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## MASTER OF SCIENCE IN EDUCATION

 MAJOR: SECONDARY EDUCATION SUBJECT MATTER TEACHING FIELD: ENGLISH LANGUAGE ARTS (6-12)
## Basic Requirements (18-21 semester hours):

EFD 500 Research in Education (3)
EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
ESE 582 Methods of Teaching in Secondary Schools (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

## Choose One from the following:

EFD 510 Proactive Orientation for Teachers (3)
EFD 531 Philosophy of Education (3)
EFD 532 Social Foundations of Education (3)
EFD 594 Seminar in Contemporary Education (3)
Teaching Field Requirements ( 12 semester hours):
By faculty advisement, select 12 graduate semester hours in English language arts to include at least one course from two of the following areas: English, speech, drama, or communication. At least 6 of the 12 semester hours selected must be numbered in the 500 level.
*Elective: 3 semester hours:
By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400 G or 500 levels.

## 33-36* Semester Hours Required for this Degree

Note:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## MASTER OF SCIENCE IN EDUCATION MAJOR: SECONDARY EDUCATION SUBJECT MATTER TECHNOLOGY OPTION TEACHING FIELD: ENGLISH LANGUAGE ARTS (6-12)

## Basic Requirements (12-15 semester hours):

EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
ESE 582 Methods of Teaching in Secondary Schools (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

Instructional Technology Courses (9 semester hours):
EIM 503 Computer-Based Instructional Technologies (3)
EIM 504 Current and Emerging Instructional Technologies (3)
(Prerequisite: EIM 503)
EIM 505 Curriculum Integration of Technology (3)
(Prerequisite: EIM 504)
Teaching Field Requirements (12 semester hours):
By faculty advisement, select 12 graduate semester hours in English language arts to include at least one course from two of the following areas: English, speech, drama, or communication. At least 6 of the 12 semester hours selected must be numbered at the 500 level.

## 33-36* Semester Hours Required for this Degree

Note:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## MASTER OF SCIENCE IN EDUCATION MAJOR: SECONDARY EDUCATION SUBJECT MATTER TEACHING FIELD: GENERAL SCIENCE (6-12)

## Basic Requirements (18-21 semester hours):

EFD 500 Research in Education (3)
EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
ESE 582 Methods of Teaching in Secondary Schools (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

## Choose One from the following:

EFD 510 Proactive Orientation for Teachers (3)
EFD 531 Philosophy of Education (3)
EFD 532 Social Foundations of Education (3)
EFD 594 Seminar in Contemporary Education (3)
Teaching Field Requirements ( 12 semester hours):
By faculty advisement, select 12 graduate semester hours from general science to include at least one course from two of the following areas: biology, marine biology, chemistry, Earth \& space science, or physics. For Earth and space science courses, see course descriptions in the geography section of Bulletin. At least 6 of the 12 semester hours selected must be numbered at the 500 level.
*Elective: 3 semester hours:
By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400 G or 500 levels.

## 33-36* Semester Hours Required for this Degree

Note:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## MASTER OF SCIENCE IN EDUCATION MAJOR: SECONDARY EDUCATION SUBJECT MATTER TECHNOLOGY OPTION TEACHING FIELD: GENERAL SCIENCE (6-12)

## Basic Requirements ( $\mathbf{1 2 - 1 5}$ semester hours):

EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
ESE 582 Methods of Teaching in Secondary Schools (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

Instructional Technology Courses ( 9 semester hours)
EIM 503 Computer-Based Instructional Technologies (3)
EIM 504 Current and Emerging Instructional Technologies (3)
(Prerequisite: EIM 503)
EIM 505 Curriculum Integration of Technology (3)
(Prerequisite: EIM 504)
Teaching Field Requirements ( 12 semester hours):
By faculty advisement, select 12 graduate semester hours from general science to include at least one course from two of the following areas: biology, marine biology, chemistry, Earth \& space science, or physics. For Earth and space science courses, see course descriptions in the geography section of this Bulletin. At least 6 of the 12 semester hours selected must be numbered at the 500 level.

## 33-36* Semester Hours Required for this Degree

Note:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## MASTER OF SCIENCE IN EDUCATION <br> MAJOR: SECONDARY EDUCATION SUBJECT MATTER TEACHING FIELD: HISTORY (6-12)

## Basic Requirements (18-21 semester hours)

EFD 500 Research in Education (3)
EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
ESE 582 Methods of Teaching in Secondary Schools (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

## Choose One from the following:

EFD $510 \quad$ Proactive Orientation for Teachers (3)
EFD 531 Philosophy of Education (3)
EFD 532 Social Foundations of Education (3)
EFD 594 Seminar in Contemporary Education (3)

## Teaching Field Requirements (12 semester hours):

By faculty advisement, select 12 graduate semester hours in history. At least 6 of the 12 semester hours selected must be numbered at the 500 level.

## *Elective: 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400 G or 500 levels.

## 33-36* Semester Hours Required for this Degree

Note:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## MASTER OF SCIENCE IN EDUCATION MAJOR: SECONDARY EDUCATION SUBJECT MATTER TECHNOLOGY OPTION TEACHING FIELD: HISTORY (6-12)

## Basic Requirements (12-15 semester hours):

EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
ESE 582 Methods of Teaching in Secondary Schools (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

Instructional Technology Courses (9 semester hours):
EIM 503 Computer-Based Instructional Technologies (3)
EIM 504 Current and Emerging Instructional Technologies (3)
(Prerequisite: EIM 503)
EIM 505 Curriculum Integration of Technology (3)
(Prerequisite: EIM 504)
Teaching Field Requirements (12 semester hours):
By faculty advisement, select 12 graduate semester hours in history. At least 6 of the 12 semester hours selected must be numbered at the 500 level.

## 33-36* Semester Hours Required for this Degree

Note:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## MASTER OF SCIENCE IN EDUCATION MAJOR: SECONDARY EDUCATION SUBJECT MATTER TEACHING FIELD: MATHEMATICS (6-12)

## Basic Requirements (18-21 semester hours):

EFD $500 \quad$ Research in Education (3)
EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD $560 \quad$ Psychological Principles of Learning (3)
ESE 582 Methods of Teaching in Secondary Schools (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

## Choose One from the following:

EFD 510 Proactive Orientation for Teachers (3)
EFD 531 Philosophy of Education (3)
EFD 532 Social Foundations of Education (3)
EFD 594 Seminar in Contemporary Education (3)

## Teaching Field Requirements (12 semester hours):

By faculty advisement, select 12 graduate semester hours in mathematics. At least 6 of the 12 semester hours selected must be numbered at the 500 level.

## *Elective: 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400 G or 500 levels.

## 33-36* Semester Hours Required for this Degree

Note:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## MASTER OF SCIENCE IN EDUCATION MAJOR: SECONDARY EDUCATION SUBJECT MATTER TECHNOLOGY OPTION TEACHING FIELD: MATHEMATICS (6-12)

## Basic Requirements (12-15 semester hours):

EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
ESE 582 Methods of Teaching in Secondary Schools (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

Instructional Technology Courses (9 semester hours):
EIM 503 Computer-Based Instructional Technologies (3)
EIM 504 Current and Emerging Instructional Technologies (3)
(Prerequisite: EIM 503)
EIM 505 Curriculum Integration of Technology (3)
(Prerequisite: EIM 504)
Teaching Field Requirements (12 semester hours):
By faculty advisement, select 12 graduate semester hours in mathematics. At least 6 of the 12 semester hours selected must be numbered at the 500 level.

## 33-36* Semester Hours Required for this Degree

## Note

A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## MASTER OF SCIENCE IN EDUCATION MAJOR: SECONDARY EDUCATION SUBJECT MATTER TEACHING FIELD: SOCIAL SCIENCE (6-12)

## Basic Requirements ( $\mathbf{1 8 - 2 1}$ semester hours):

EFD 500 Research in Education (3)
EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
ESE 582 Methods of Teaching in Secondary Schools (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

## Choose One from the following:

EFD 510 Proactive Orientation for Teachers (3)
EFD 531 Philosophy of Education (3)
EFD 532 Social Foundations of Education (3)
EFD 594 Seminar in Contemporary Education (3)

## Teaching Field Requirements ( 12 semester hours):

By faculty advisement, select 12 graduate semester hours in social science to include at least one course from two of the following areas: economics, geography, history, political science, or psychology. At least 6 of the 12 semester hours selected must be numbered at the 500 level.

## *Elective: 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400 G or 500 levels.

## 33-36* Semester Hours Required for this Degree

Note:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

MASTER OF SCIENCE IN EDUCATION
MAJOR: SECONDARY EDUCATION SUBJECT MATTER TECHNOLOGY OPTION TEACHING FIELD: SOCIAL SCIENCE (6-12)

## Basic Requirements (12-15 semester hours):

EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
ESE 582 Methods of Teaching in Secondary Schools (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

Instructional Technology Courses ( 9 semester hours):
EIM 503 Computer-Based Instructional Technologies (3)
EIM 504 Current and Emerging Instructional Technologies (3)
(Prerequisite: EIM 503)
EIM 505 Curriculum Integration of Technology (3)
(Prerequisite: EIM 504)
Teaching Field Requirements ( 12 semester hours):
By faculty advisement, select 12 graduate semester hours in social science to include at least one course from two of the following areas: economics, geography, history, political science, or psychology. At least 6 of the 12 semester hours selected must be numbered at the 500 level.

## 33-36* Semester Hours Required for this Degree

Note:
A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## MASTER OF SCIENCE IN EDUCATION MAJOR: SPECIAL EDUCATION/COLLABORATIVE TEACHER (K-6)

## Basic Requirements (3-6 semester hours):

EFD 500 Research in Education (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

Teaching Field Requirements ( $\mathbf{3 0}$ semester hours):
SPE 505 Functional Communication (3)
SPE 516 Characteristics of Students with Mild to Moderate Disabilities (3)
(Prerequisite: SPE 500)
SPE 517 Preferred Instructional Practice for Elementary Students with Disabilities of Learning and Behavior (3)
(Prerequisite: SPE 500, 516)
SPE 522 Assessment of Special Populations (3)
SPE 533 Applying Behavior Analysis to Special Populations (3)
SPE 554 Medical, Legal, and Ethical Aspects of SPE (3)
SPE $560 \quad$ Characteristics of Severe Disabilities (3)
(Prerequisite: SPE 500)
SPE 561 Research and Practices of Severe Disabilities, Elementary Level (3) (Prerequisite: SPE 560)
SPE 583 Internship in Disabilities of Learning and Behavior (3)
(Prerequisite: SPE 516 and SPE 517)
SPE 586 Internship in Severe Disabilities (3)
(Prerequisite: SPE 560 and SPE 561)

## 33-36* Semester Hours Required for this Degree

## MASTER OF SCIENCE IN EDUCATION <br> MAJOR: SPECIAL EDUCATION/COLLABORATIVE TEACHER (6-12)

Basic Requirements (3-6 semester hours):
EFD 500 Research in Education (3)*SPE 500 Survey Course in Special Education (3)Students who have not previously satisfied the special education requirement at theundergraduate or graduate level must take SPE 500.
Teaching Field Requirements ( $\mathbf{3 0}$ semester hours):
SPE 505 Functional Communication (3)
SPE 516 Characteristics of Students with Mild to Moderate Disabilities (3)(Prerequisite: SPE 500)
SPE 518 Preferred Instructional Practices for Secondary Students with
Disabilities of Learning and Behavior (3)(Prerequisite: SPE 500, 516)
SPE 522 Assessment of Special Populations (3)
SPE 533 Applying Behavior Analysis to Special Populations (3)
SPE 554 Medical, Legal, and Ethical Aspects of SPE (3)
SPE 560 Characteristics of Severe Disabilities (3)(Prerequisite: SPE 500)
SPE 562 Research and Practices of Severe Disabilities, Secondary Level (3)
(Prerequisite: SPE 560)
SPE 583 Internship in Disabilities of Learning and Behavior (3)
(Prerequisite: SPE 516 and SPE 518)
SPE 586 Internship in Severe Disabilities (3)
(Prerequisite: SPE 560 and SPE 562)
33-36* Semester Hours Required for this Degree

# MASTER OF ARTS <br> MAJOR: MUSIC <br> CONCENTRATION: MUSIC EDUCATION/INSTRUMENTAL (P-12) 

Basic Requirements ( $\mathbf{1 2 - 1 5}$ semester hours):
EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
MED 512 Seminar in Instrumental Music (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

Teaching Field Requirements ( 15 semester hours):
MED 511 Research Methods in Music and Music Education (3)
MU 505 Music Literature: Medieval-Renaissance (3)
MU 506 Music Literature: Baroque Era (3)
MU 507 Music Literature: Classic-Romantic (3)
MU 508 Music Literature: Contemporary Era (3)
*Electives: 0 or 3 semester hours:
By faculty advisement, students who have previously satisfied the special education requirement must take 3 semester hours in music education numbered at the 400G or 500 level.

30 Semester Hours Required for this Degree

## MASTER OF ARTS <br> MAJOR: MUSIC <br> CONCENTRATION: MUSIC EDUCATION/VOCAL-CHORAL (P-12)

Basic Requirements ( $\mathbf{1 2 - 1 5}$ semester hours):
EFD 501 Tests and Measurements (3)
EFD 502 Curriculum Development (3)
EFD 560 Psychological Principles of Learning (3)
MED 509 Seminar in Choral Music (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

Teaching Field Requirements ( 15 semester hours):
MED 511 Research Methods in Music and Music Education (3)
MU 505 Music Literature: Medieval-Renaissance (3)
MU 506 Music Literature: Baroque Era (3)
MU 507 Music Literature: Classic-Romantic (3)
MU 508 Music Literature: Contemporary Era (3)
*Elective: $\mathbf{0}$ or $\mathbf{3}$ semester hours:
By faculty advisement, students who have previously satisfied the special education requirement must take 3 semester hours in music education numbered at the 400 G or 500 level.

30 Semester Hours Required for this Degree

# MASTER OF SCIENCE <br> MAJOR: COUNSELOR EDUCATION CONCENTRATION: SCHOOL COUNSELING (P-12) 

Basic Requirements (9-12 semester hours):
EFD 500 Research in Education (3)
EFD 501 Tests and Measurements (3)
EPY 525 Lifespan Development (3)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

Counseling Core Courses ( $\mathbf{2 1}$ semester hours):<br>ECG 510 Introduction to Counseling (3)<br>ECG 525 Skills Development (3)<br>(Prerequisites: ECG 510 and ECG 553)<br>ECG 553 Theory and Process (3)<br>ECG 556 Career Development (3)<br>ECG 585 Counseling Practicum (3)

(Prerequisites: ECG 510, 525, 553 and 591)
ECG $591 \quad$ Group Procedures in Counseling (3)
(Prerequisites: ECG 510 and 553)
ECG 594 Internship in School Counseling (3)
(Prerequisite: ECG 585)
School Counseling Concentration Courses (12 semester hours):
ECG 521 Program Development (3)
ECG 545 Consultation/Interventions (3)
ECG 558 Counseling Children/Adolescents (3)
EPY 592 Individual/Group Appraisal (3)
(Prerequisite: EFD 501 or equivalent)

## 42-45* Semester Hours Required for this Degree

## Master's Level add-On Certification in School Counseling (P-12)

Students who hold a master's degree and master's level certification may add-on a fifth-year school counseling certificate by completing 36 graduate semester hours to include: EPY 525 ( 3 semester hours), the Counseling Core Courses ( 21 semester hours), and the School Counseling Concentration Courses (12 semester hours) listed above.

Prior graduate course work may be used to complete requirements for this certification. Course work will be evaluated and must be equivalent to the courses listed above. No more than 12 semester hours used in a prior fifth-year (master's) program may be used for this 36 -semester hour program. ECG 594, Internship in Counseling, must be completed at JSU.

A written comprehensive examination is required of all candidates for the master's and for fifth-year addon teacher certification programs.

Students completing course work for certification apply for certification during their last semester of enrollment. Certification forms are available in the Teacher Service Center, 207 Ramona Wood Hall.

## MASTER OF SCIENCE MAJOR: COUNSELOR EDUCATION CONCENTRATION: COMMUNITY AGENCY COUNSELING

| Basic Requirements ( $\mathbf{9}$ semester hours): |  |  |
| :---: | :---: | :--- |
| EFD | 500 | Research in Education (3) |
| EFD | 501 | Tests and Measurements (3) |
| EPY | 525 | Lifespan Development (3) |

Counseling Core Courses ( $\mathbf{2 4}$ semester hours):
ECG $510 \quad$ Introduction to Counseling (3)
ECG 525 Skills Development (3)
(Prerequisites: ECG 510 and ECG 553)
ECG 553 Theory and Process (3)
ECG 556 Career Development (3)
ECG 585 Counseling Practicum (3)
(Prerequisites: ECG 510, 525, 553 and 591)
ECG 591 Group Procedures in Counseling (3)
(Prerequisites: ECG 510 and 553)
ECG 596 Internship in Community Agency Counseling (3) (3)
(Prerequisite: ECG 585) (To be taken twice.)
Community Agency Counseling Concentration Courses (12 semester hours):
ECG 523 Multicultural Issues (3)
ECG 526 Legal and Ethical Issues (3)
ECG 588 Crisis Counseling (3)
ECG 540 Diagnosis and Treatment of the DSM Disorders (3)
Elective: 3 semester hours by Advisement: Students are encouraged to choose one of the following:
ECG 545 Consultation/Interventions (3)
ECG 558 Counseling Children/Adolescents (3)
EPY 592 Individual and Group Appraisal (3)
(Prerequisite: EFD 501 or equivalent)
48 Semester Hours Required for this Degree

## ALTERNATIVE FIFTH-YEAR TEACHER CERTIFICATION PROGRAM

These programs are available to students who have completed a bachelor's degree from a regionally accredited institution in a field other than teacher education or for initial certification in a second teaching field. Available teaching fields leading to the master's degree and recommendation for teacher certification are listed on page 125.

## ADMISSION REQUIREMENTS FOR ALTERNATIVE FIFTH-YEAR TEACHER CERTIFICATION PROGRAMS

In addition to meeting the general admission requirements of the College of Graduate Studies listed on pages 12-15, students must also meet the following requirements to be eligible for this program:

1. Contact the Teacher Service Center at (256) 782-5574 for an individual evaluation concerning undergraduate deficiencies prior to registration for classes in this program.
2. Hold a GPA of 2.50 overall on all hours attempted at all institutions prior to enrollment in this program.
3. Show completion of general studies course work with at least one course in the areas of humanities, mathematics, social science, and science. Students pursuing the early childhood and elementary education teaching fields must show completion of four courses in science and three courses in mathematics.
4. Show completion of a major, or equivalent, on the bachelor's level in the same teaching field, or if students are seeking the degree in an area that differs from their undergraduate degree(s), students must remove any deficiencies in the field in which the master's degree is sought. Students may complete only 18 hours of graduate course work prior to removal of all undergraduate deficiencies. (See undergraduate course listings on each program of study.)
5. In addition to the transcript provided to meet general admission requirements, provide the College of Graduate Studies a second transcript to be used for official evaluation for certification.
6. Read and sign a "Statement of Understanding" in the Teacher Service Center.

If, at any time, a student wishes to change from one alternative fifth-year major or teaching field to another, the student must contact the Teacher Service Center for an evaluation concerning undergraduate deficiencies for the newly selected major or teaching field. The student must meet the admission and program requirements for the newly selected major or teaching field as specified in the Bulletin current at the time the student is changing.

## INTERNSHIP ELIGIBILITY REQUIREMENTS FOR ALTERNATIVE FIFTH-YEAR TEACHER CERTIFICATION PROGRAM

Students are required to make formal application for the Internship Semester. In order to accommodate students with appropriate clinical settings, the following priority dates for applications have been established: January 31 for the following Fall Semester and September 30 or the following Spring Semester.

Please note that student teaching is offered only in the Fall and Spring Semesters and must be taken the last semester before graduation. Also, all alternative fifth-year students will have certain obligations at JSU during the internship semester. Alternative fifth-year interns will be required to attend scheduled Supervisory Seminars, which will be held on the main JSU campus. The seminars, conducted by the University supervisors, are designed to complement the pre-service teaching experience in order to provide
an opportunity for reflection, professional growth, and exchanging of ideas. Application forms are available in the Teacher Service Center, 207 Ramona Wood Hall.

Eligibility requirements for the internship semester:

1. The student must be admitted to the alternative fifth-year program.
2. The internship semester is to be completed during the student's last semester of residency at JSU.
3. The student must have completed all required courses.
4. The student must possess a graduate 3.0 GPA in each of the following areas:
a. All graduate hours attempted to meet the alternative fifth-year program requirements;
b. All graduate hours attempted in the teaching field to meet the alternative fifth-year program requirements; and
c. All graduate hours attempted in professional education courses to meet the alternative fifthyear program requirements.
5. The internship is a stand-alone experience. The pre-service teacher shall not be enrolled in other courses during the normal operational hours of the schools where the internship is being completed.
6. The student must have completed a minimum of five days of full time, structured field experiences in block practicum courses.
7. Alternative fifth-year students planning to complete the internship while employed must also supply proof of employment and appropriate certification to the Teacher Service Center, 207 Ramona Wood Hall, by the priority dates.

## APPLICATION REQUIREMENTS FOR INITIAL ALABAMA CERTIFICATION

1. 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 at any time resulting in additions and/or deletions of program requirements. Issuance of Alabama teaching certificates is the legal responsibility of the Alabama State Department of Education. Universities cannot issue a professional certificate. To be eligible to apply for certification, a student must complete an appropriate course of study at a College or University that 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.
2. The student, during his/her last semester of course work, is to obtain an application form for certification from the Teacher Service Center, 207 Ramona Wood Hall. The appropriate fees (money order or Cashier's Check made payable to the Alabama State Department of Education), which are forwarded with the student's credits to the State Department of Education, should accompany the application. Upon completion of the appropriate course of study, 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.
3. To be eligible for recommendation for a certificate, the candidate must earn a passing score on a written comprehensive examination that covers the content of the teaching field(s) and professional education.
4. To be eligible for recommendation for a teaching certificate, the applicant must earn a passing score on the Alabama Prospective Teacher Test (APTT). Applicants completing an Alternative Class A (master's degree level) teacher education program or applying for certification through other alternative and preliminary routes on or after January 1, 2003, must meet this test requirement. In addition, individuals who are seeking to reinstate certificates that have lapsed more than six months are also subject to meeting the test requirements.

Applicants applying for certification between January 1, 2003, and August 31, 2003, will be required to successfully complete the Reading for Information test and the Applied Mathematics test. Individuals applying for certification on or after September 1, 2003, will be required to successfully complete the Reading for Information test, the Applied Mathematics test, and the Writing test.
5. No grade below " C " in professional studies or teaching field may be used to meet certification requirements.
6. The applicant must submit finger print cards to the Alabama State Department of Education (the appropriate fee in the form of a money order or Cashier's Check made payable to the Alabama State Department of Education must accompany the finger print card) and successfully pass background reviews.
7. Anyone arrested for or convicted of a felony and/or misdemeanor other than a minor traffic violation may be denied certification or have certification revoked by the State Superintendent. Questions may be directed to the Director of Teacher Education Services, College of Education and Professional Studies.
8. Recommendation for certification must be made within five years of program completion. Recommendation after five years requires completion of a current program.

# PROGRAMS OF STUDY <br> ALTERNATIVE FIFTH-YEAR TEACHER CERTIFICATION PROGRAM 

Programs of study for Alternative Fifth-Year Teacher Certification Program leading to the Master of Science in Education (M.S.Ed.) or the Master of Arts with a major in music (M.A.) provide a detailed description of the graduate course requirements for each program. Students should bring the appropriate Bulletin with them when seeking advisement or attempting to register. The programs of study are listed below by degree, major, and concentration:

## Master of Science in Education

Early Childhood Education ............................................................................................. 126
Elementary Education .................................................................................................... 127
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Secondary Education Subject Matter
Biology
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English Language Arts ...................................................................................... 131
General Science.................................................................................................... 132
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Special Education/Collaborative Teacher (K-6)............................................................... 137
Special Education/Collaborative Teacher (6-12) ............................................................. 138
Master of Arts
Music Education/Instrumental .......................................................................................... 139
Music Education/Vocal-Choral........................................................................................ 140

Descriptions of the courses listed in the programs of study are found on pages 141-150.

## ALTERNATIVE FIFTH-YEAR PROGRAM MASTER OF SCIENCE IN EDUCATION MAJOR: EARLY CHILDHOOD EDUCATION (P-3)

\author{

Required Courses (38-42 semester hours): <br> \begin{tabular}{lll}
ECE \& 500 \& Materials and Methods (3) <br>
ECE \& 501 \& Behavior \& Development in Early Childhood (3) <br>
ECE \& 513 \& Individualization of Ed. for Young Children (3) <br>
ECE \& 530 \& Designing Programs for Young Children (3) <br>
ECE \& 532 \& Issues \& Trends in Early Childhood Education (3) <br>
ECE \& 538 \& Teaching Reading in ECE (3) <br>
ECE \& 539 \& Teaching Writing in ECE (3) <br>
ECE \& 570 \& Internship in Early Childhood Education (3) <br>

\& \& | (offered Fall and Spring during public school hours) |
| :---: | <br>

EED \& 541 \& Teaching Mathematics (3)
\end{tabular} <br> (Prerequisites: Approved undergraduate math courses and EED 341.) <br> EED 544 Teaching Science (3) <br> (Prerequisites: Approved undergraduate science courses.) <br> EFD $500 \quad$ Research in Education (3) <br> EFD 501 Tests and Measurements (3) <br> *SPE 500 Survey Course in Special Education (3) <br> Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

}

## Choose One from the following:

EIM 410G The Information Age Classroom (2)
EIM 503 Computer-Based Instructional Technologies (3)

## 38-42* Semester Hours Required for this Degree

Undergraduate Requirements:

| ECE | 303 | Introduction to Early Childhood Education (3) |
| :--- | :--- | :--- |
| ECE | 304 | Early Literacy (3) |
| ECE | 305 | Creative \& Mental Development (3) |
| ECE | 306 | Practicum in ECE (3) |
| EED | 312 | Children's Literature (3) |
| EED | 341 | Mathematics for Children (3) |
| EED | 342 | Teaching Reading (3) |

Plus 4 approved courses of science and 3 approved courses of math
(The ECE Block (ECE 303, ECE 304, ECE 305, ECE 306) is to be taken intact and is only offered during the Fall and Spring Semesters. Contact Dr. Elizabeth Engley at 256-782-5844, to schedule the ECE block.)

## ALTERNATIVE FIFTH-YEAR PROGRAM MASTER OF SCIENCE IN EDUCATION MAJOR: ELEMENTARY EDUCATION (K-6)

## Basic Requirements (36-38 semester hours):

| ECE | 501 | Behavior \& Development (3) |
| :--- | :--- | :--- |
| *EED | 541 | Teaching Mathematics (3) |
| *EED | 542 | Teaching Reading (3) |
| *EED | 543 | Teaching Social Studies (3) |
| *EED | 544 | Teaching Science (3) |
| *EED | 545 | Teaching Language Arts (3) |
| EED | 580 | Internship (3) |

(offered Fall and Spring during public school hours)
EFD 500 Research in Education (3)
EFD 560 Psychological Principles of Learning (3)
EPY 442G Educational Measurement (2)
**SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

## Choose One from the following:

| EFD | 502 | Curriculum Development (3) |
| :--- | :--- | :--- |
| EFD | 515 | Seminar in Schools \& Learning (2) |

## Choose One from the following:

EIM 410G The Information Age Classroom (2)
EIM 503 Computer-Based Instructional Technologies (3)
EIM 504 Current and Emerging Instructional Technologies (3)
*All undergraduate prerequisites must be completed before taking graduate methods courses.
**Electives: 0 or 3 semester hours:
By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400 G or 500 levels.

## 36-38* Semester Hours Required for this Degree

Undergraduate Requirements:

| EED 312 | Children's Literature (3) |
| :--- | :--- |
| EED 339 | Integrating Theory/Practice (3) |
| EED 341 | Mathematics for Children (3) |
| EED 342 | Teaching Reading (3) |
| EED 343 | Curriculum Integration in Teaching Social Studies (3) |
| EED 344 | Developing Language Skills (3) |
| EED 405 | Contemporary Issues in Education (3) |
| EED 421 | Effective Teaching Strategies (3) |

Plus 4 approved courses of science and 3 approved courses of math.
(The Junior Block \{EED 339, EED 342, EED 344, EED 421$\}$ is to be taken intact and is only offered during the Fall and Spring Semesters. Contact Dr. Slenda Haynes at (256) 782-5081 to schedule the on-campus Junior Block. To schedule the Junior Block in Gadsden, call (256) 549-8390.)

## ALTERNATIVE FIFTH-YEAR PROGRAM MASTER OF SCIENCE IN EDUCATION MAJOR: PHYSICAL EDUCATION (P-12)

## Required Courses (18-21 semester hours):

| EFD | 500 | Research in Education (3) |
| :--- | :--- | :--- |
| EFD | 560 | Psychological Principles of Learning (3) |
| EIM | 410 G | The Information Age Classroom (2) |
| EPY | 429 G | Developmental Psychology (Lab Required) (2) |
| ESE | 567 | Improvement of Reading in Secondary Schools (2) |
| PE | 451 G | Test and Measurements in PE (3) |
| PE | 462 G | Physical Education Program (3) |
| *SPE | 500 | Survey Course in Special Education (3) |
|  | Students who have not previously satisfied the special education requirement at the <br> undergraduate or graduate level must take SPE 500. |  |

Teaching Field (21 semester hours):
PE 409G Methods of Teaching PE, P-5 (3)
PE 410G Methods of Teaching PE, 6-12 (3)
PE 587 Internship in PE, P-12 (3)
( $50 \%$ time at the elementary and $50 \%$ time at the secondary level; offered Fall and Spring during public school hours). (Prerequisite: EPY 429G)

Students should concentrate in one of the following areas: special physical education, physical education pedagogy, or sports science. At least three (3) courses should be chosen from the area of concentration. The remaining courses may be chosen from the other courses listed below.

| Choose four courses from the following: |  |  |
| :---: | :---: | :---: |
| Special Physical Education |  |  |
| PE | 580 | Adapted Physical Education (3) |
| PE | 581 | Advanced Practicum in Special Physical Education (3) |
| PE | 582 | Research Seminar in Special Physical Education (3) |
| PE | 583 | Perceptual Motor Development (3) |
| Physical Education - Pedagogy |  |  |
| PE | 510 | Physical Education Curriculum (3) |
| PE | 540 | Physical Education and Law (3) |
| PE | 560 | Readings in Physical Education (3) |
| PE | 568 | Administration of Athletics (3) |
| PE | 585 | Physical Activity and the Aging Process (3) |
| Sports Science |  |  |
| PE | 502 | Sociology of Sports (3) |
| PE | 503 | Sport History (3) |
| PE | 530 | Physiology of Exercise (3) |
| PE | 535 | Skill Analysis (3) |
| PE | 539 | Diet and Performance (3) |

PE $545 \quad$ Stress Management Strategies for the HPE Teacher (3)
PE $575 \quad$ Physical Fitness \& Health (3)

## 39-42* Semester Hours Required for this Degree

Undergraduate Requirements:
28 semester hours of undergraduate course work in health and physical education to include the following:

| PE | 101 | Introduction and Foundations of HPER (2) |
| :--- | :--- | :--- |
| PE | 109 | Concepts of Wellness (3) |
| PE | 272 | Basic Athletic Training (2) |
| or |  |  |
| HLT | 232 | Emergency Medical Service (2) |
| PE | 362 | Anatomical Kinesiology (2) |
| or |  |  |
| PE | 415 | Biomechanics (2) |
| PE | 400 | Exercise Physiology (3) |
| PE | 460 | Motor Development (2) |
| BY | 263 | Anatomy and Physiology (3) |

Plus 11 semester hours of physical activity course work

## ALTERNATIVE FIFTH-YEAR PROGRAM MASTER OF SCIENCE IN EDUCATION MAJOR: SECONDARY EDUCATION TEACHING FIELD: BIOLOGY (6-12)

## Required Courses ( $\mathbf{2 5 - 2 8}$ semester hours):

| EFD | 500 | Research in Education (3) |
| :--- | :--- | :--- |
| EFD | 515 | Seminar in Schools and Learning (2) |
| EFD | 560 | Psychological Principles of Learning (3) |
| EIM | 410 G | The Information Age Classroom (2) |
| EPY | 429 G | Developmental Psychology (Lab Required) (2) |
| EPY | 442 G | Educational Measurement (2) |
| ESE | 423 G | Secondary School Science (2) |
| ESE | 567 | Improvement of Reading in Secondary Schools (2) |
| ESE | 580 | Internship in Secondary Education (4) |

(offered Fall and Spring during public school hours)
(Prerequisites: EPY 429G, ESE 423G and ESE 582)
ESE 582 Methods of Teaching in Secondary Schools (3)
(Prerequisite: EPY 429G)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

## Teaching Field Requirement ( 15 semester hours):

By faculty advisement, select 15 graduate semester hours in biology or marine biology. At least half of the 15 semester hours selected must be numbered at the 500 level. A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## *Electives: 0 or 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400 G or 500 levels.

## 43 Semester Hours Required for this Degree

Undergraduate Requirements:
30 semester hours of undergraduate course work in biology to include the following:

| BY | $101 \& 103$ | Introductory Biology I \& Lab (4) |
| :--- | :--- | :--- |
| BY | $102 \& 104$ | Introductory Biology II \& Lab (4) |
| BY | 322 | Genetics (3) |
| BY | 332 | Ecology (3) |
| BY | 373 | Cell Biology (3) |
| and |  |  |
| BY | 412 | Plant Reproduction and Development (4) |
| or |  |  |
| BY | 413 | Animal Reproduction and Development (4) |

# ALTERNATIVE FIFTH-YEAR PROGRAM MASTER OF SCIENCE IN EDUCATION <br> MAJOR: SECONDARY EDUCATION <br> TEACHING FIELD: ENGLISH LANGUAGE ARTS (6-12) 

## Required Courses (25-28 semester hours):

| EFD | 500 | Research in Education (3) |
| :--- | :--- | :--- |
| EFD | 515 | Seminar in Schools and Learning (2) |
| EFD | 560 | Psychological Principles of Learning (3) |
| EIM | 410 G | The Information Age Classroom (2) |
| EPY | 429 G | Developmental Psychology (Lab Required) (2) |
| EPY | 442 G | Educational Measurement (2) |
| ESE | 422 G | Teaching Language Arts (2) |
| ESE | 567 | Improvement of Reading in Secondary Schools (2) |
| ESE | 580 | Internship in Secondary Education (4) |

(offered Fall and Spring during public school hours)
(Prerequisites: EPY 429G, ESE 422G and ESE 582)
ESE 582 Methods of Teaching in Secondary Schools (3)
(Prerequisite: EPY 429G)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

## Teaching Field Requirement ( 15 semester hours):

By faculty advisement, select 15 graduate semester hours from the English language arts area to include at least one course from two of the following areas: English, speech, drama or communication. At least half of the 15 semester hours selected must be numbered at the 500 level. A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## *Electives: 0 or 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives may be selected from courses numbered at the 400 G or 500 level

## 43 Semester Hours Required for this Degree

Undergraduate Requirements:
56 semester hours of undergraduate course work in the following areas of English/ language arts, including at least one course in each of the following areas: composition, drama (theatre), grammar, communication, literature, and speech.

# ALTERNATIVE FIFTH-YEAR PROGRAM MASTER OF SCIENCE IN EDUCATION MAJOR: SECONDARY EDUCATION TEACHING FIELD: GENERAL SCIENCE (6-12) 

## Required Courses ( $\mathbf{2 5 - 2 8}$ semester hours):

| EFD | 500 | Research in Education (3) |
| :---: | :---: | :---: |
| EFD | 515 | Seminar in Schools and Learning (2) |
| EFD | 560 | Psychological Principles of Learning (3) |
| EIM | 410G | The Information Age Classroom (2) |
| EPY | 429G | Developmental Psychology (Lab Required) (2) |
| EPY | 442G | Educational Measurement (2) |
| ESE | 423G | Secondary School Sciences (2) |
| ESE | 567 | Improvement of Reading in Secondary Schools (2) |
| ESE | 580 | Internship in Secondary Education (4) (offered Fall and Spring during public school hours) (Prerequisites: EPY 429G, ESE 423G and ESE 582) |
| ESE | 582 | Methods of Teaching in Secondary Schools (3) (Prerequisite: EPY 429G) |
| *SPE | 500 | Survey Course in Special Education (3) <br> Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives. |

## Teaching Field Requirement ( 15 semester hours):

By faculty advisement, select 15 graduate semester hours from the general science area to include at least one course from two of the following areas: biology, marine biology, chemistry, Earth and space science, or physics. For Earth and space science courses, see course descriptions in the geography section of this Bulletin. At least half of the 15 semester hours selected must be numbered at the 500 level. A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## *Electives: 0 or 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400 G or 500 levels.

## 43 Semester Hours Required for this Degree

Undergraduate Requirements:
52 semester hours of undergraduate course work in general science including at least one course in each of the following areas: biology, chemistry earth \& space science, and physics, which must include the following:

BY $\quad 101 \& 103 \quad$ Introductory Biology I \& Lab (4)
BY $\quad 102$ \& $104 \quad$ Introductory Biology II \& Lab (4)
BY 332
CY $\quad 105$ \& 107
CY 106 \& 108
GY $\quad 250 \& 252$
GY $\quad 251 \& 253$
GY 344
PHS 201 \& 211L College Physics \& Lab (4)
PHS 202 \& 212L College Physics \& Lab (4)
Two semester hours from the following:
BY 488 Education Laboratory Practicum (2)
CY 484 Laboratory Practicum (1)
GY $480 \quad$ Geography Laboratory Practicum (1)
PHS 411
Laboratory Practicum (1)
and
BY $370 \quad$ Introduction to Research in Biology (1)
or
GY $315 \quad$ Research Methods (2)

# ALTERNATIVE FIFTH-YEAR PROGRAM MASTER OF SCIENCE IN EDUCATION MAJOR: SECONDARY EDUCATION TEACHING FIELD: HISTORY (6-12) 

## Required Courses (25-28 semester hours):

| EFD | 500 | Research in Education (3) |
| :--- | :--- | :--- |
| EFD | 515 | Seminar in Schools and Learning (2) |
| EFD | 560 | Psychological Principles of Learning (3) |
| EIM | 410 G | The Information Age Classroom (2) |
| EPY | 429 G | Developmental Psychology (Lab Required) (2) |
| EPY | 442 G | Educational Measurement (2) |
| ESE | 421 G | Teaching Social Science (2) |
| ESE | 567 | Improvement of Reading in Secondary Schools (2) |
| ESE | 580 | Internship in Secondary Education (4) |

(offered Fall and Spring during public school hours)
(Prerequisites: EPY 429G, ESE 421G and ESE 582)
ESE 582 Methods of Teaching in Secondary Schools (3)
(Prerequisite: EPY 429G)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

## Teaching Field Requirement ( 15 semester hours):

By faculty advisement, select 15 graduate semester hours in history courses. At least half of the 15 semester hours selected must be numbered at the 500 level. A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.
*Electives: 0 or 3 semester hours:
By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400 G or 500 levels.

## 43 Semester Hours Required for this Degree

Undergraduate Requirements:
30 semester hours of undergraduate course work in history

## ALTERNATIVE FIFTH-YEAR PROGRAM MASTER OF SCIENCE IN EDUCATION <br> MAJOR: SECONDARY EDUCATION <br> TEACHING FIELD: MATHEMATICS (6-12)

## Required Courses (25-28 semester hours):

| EFD | 500 | Research in Education (3) |
| :--- | :--- | :--- | :--- |
| EFD | 515 | Seminar in Schools and Learning (2) |
| EFD | 560 | Psychological Principles of Learning (3) |
| EIM | 410 G | The Information Age Classroom (2) |
| EPY | 429 G | Developmental Psychology (Lab Required) (2) |
| EPY | 442 G | Educational Measurement (2) |
| ESE | 420 G | Teaching Mathematics (2) |
| ESE | 567 | Improvement of Reading in Secondary Schools (2) |
| ESE | 580 | Internship in Secondary Education (4) |

(offered Fall and Spring during public school hours)
(Prerequisites: EPY 429G, ESE 420G and ESE 582)
ESE 582 Methods of Teaching in Secondary Schools (3)
(Prerequisite: EPY 429G)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have no electives.

## Teaching Field Requirement ( 15 semester hours):

By faculty advisement, select 15 graduate semester hours in mathematics courses. At least half of the 15 semester hours selected must be numbered at the 500 level. A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## *Electives: 0 or 3 semester hours :

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400 G or 500 levels.

## 43 Semester Hours Required for this Degree

Undergraduate Requirements:
30 semester hours of undergraduate course work in mathematics to include at least 12 semester hours, or equivalent, beyond the three-course JSU calculus series, including MS 351, Introduction to Abstract Algebra.

## ALTERNATIVE FIFTH-YEAR PROGRAM MASTER OF SCIENCE IN EDUCATION <br> MAJOR: SECONDARY EDUCATION TEACHING FIELD: SOCIAL SCIENCE (6-12)

## Required Courses (25-28 semester hours):

| EFD | 500 | Research in Education (3) |
| :--- | :--- | :--- |
| EFD | 515 | Seminar in Schools and Learning (2) |
| EFD | 560 | Psychological Principles of Learning (3) |
| EIM | 410 G | The Information Age Classroom (2) |
| EPY | 429 G | Developmental Psychology (Lab Required) (2) |
| EPY | 442 G | Educational Measurement (2) |
| ESE | 421 G | Teaching Social Science (2) |
| ESE | 567 | Improvement of Reading in Secondary Schools (2) |
| ESE | 580 | Internship in Secondary Education (4) |

(offered Fall and Spring during public school hours)
(Prerequisites: EPY 429G, ESE 421G, and ESE 582)
ESE 582 Methods of Teaching in Secondary Schools (3)
(Prerequisite: EPY 429G)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

## Teaching Field Requirement ( 15 semester hours):

By faculty advisement, select 15 graduate semester hours from the social science area to include at least one course from two of the following areas: economics, geography, history, political science, or psychology. At least half of the 15 semester hours selected must be numbered at the 500 level. A student may transfer no more than three semester hours in the teaching field. This major requires a minimum GPA of 3.0 in the course work in the teaching field. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

## *Electives: 0 or 3 semester hours:

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400 G or 500 levels.

## 43 Semester Hours Required for this Degree

Undergraduate Requirements:
56 semester hours of undergraduate course work in a social science area, including at least 18 semester hours of 300 or 400 level course work in one of the following areas: geography, history, or political science; and at least one course in each of the following areas: economics, history, geography, political science, psychology, and sociology.

## ALTERNATIVE FIFTH-YEAR PROGRAM MASTER OF SCIENCE IN EDUCATION MAJOR: SPECIAL EDUCATION/ COLLABORATIVE TEACHER (K-6)

| Basic Requirements (18-21 semester hours) |  |  |
| :---: | :---: | :--- |
| EED | 542 | Teaching Reading (3) <br> (Prerequisite: EED 342) |
| EFD | 500 | Research in Education (3) <br> Preferred Instructional Practice for Elementary Students <br> with Disabilities of Learning and Behavior (3) <br> (Prerequisites: SPE 500 and 516) |
| SPE | 517 | Assessment of Special Populations (3) |
| SPE | 522 | Medical, Legal, and Ethical Aspects of SPE (3) |
| SPE | 554 | Internship in Disabilities of Learning and Behavior (3) <br> (Prerequisites: SPE 516 and SPE 517) |
| SPE | 583 | Survey Course in Special Education (3) |
| *SPE | 500 | Students who have not previously satisfied the special education requirement at the <br> undergraduate or graduate level must take SPE 500. |

Instructional Technology Courses (2-3 semester hours):
Choose One of the following:
EIM 410G Information Age Classroom (2)
EIM 503 Computer Based Instructional Technologies (3)
EIM 504 Current and Emerging Instructional Technologies (3)
Teaching Field Requirements: ( $\mathbf{1 8}$ semester hours):

| SPE | 505 | Functional Communication (3) |
| :--- | :--- | :--- |
| SPE | 516 | Characteristics of Students with Mild to Moderate Disabilities (3) |
|  |  | (Prerequisite: SPE 500) | (Prerequisite: SPE 560)

** SPE 546, Internship in Nontraditional Severe Disabilities, is equivalent to undergraduate student teaching and requires a semester long internship in the public schools. This should be scheduled during the last semester of course work.

## *38-42 Semester Hours Required for this Degree

Undergraduate Requirements:
EED 342 Teaching Reading (3)
SPE 382 Curriculum Methods for the Developmentally Disabled (3)
SPE 384 Curriculum and Strategies for Learning and Behavior Disabilities (3)
SPE 385 Curriculum and Behavior Management (3)
SPE 416 Assessment of Teaching/Learning (3)

## ALTERNATIVE FIFTH-YEAR PROGRAM MASTER OF SCIENCE IN EDUCATION MAJOR: SPECIAL EDUCATION/ COLLABORATIVE TEACHER (6-12)

$\left.\begin{array}{ccl}\text { Required Courses (17-20 semester hours): } \\ \text { EFD } & 500 & \begin{array}{l}\text { Research in Education (3) } \\ \text { Improvement of Reading in Secondary Schools (2) } \\ \text { (Prerequisite: ESE 383) }\end{array} \\ \text { SSE } & 567 & 518\end{array} \begin{array}{l}\text { Preferred Instructional Practices for Secondary Students } \\ \text { with Disabilities of Learning and Behavior (3) } \\ \text { (Prerequisites: SPE 500 and 516) }\end{array}\right]$

Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500.

## Instructional Technology Courses (2-3 semester hours): <br> Choose One of the following:

EIM 410G Information Age Classroom (2)
EIM 503 Computer Based Instructional Technologies (3)
EIM 504 Current and Emerging Instructional Technologies (3)
Teaching Field Requirements ( $\mathbf{1 8}$ semester hours):

| SPE | 505 | Functional Communication (3) <br> SPE |
| :--- | :--- | :--- |
| 516 | Characteristics of Students with Mild to Moderate Disabilities (3) <br> (Prerequisite: SPE 500) |  |
| SPE | 533 | Applying Behavior Analysis to Special Populations (3) |
| **SPE | 546 | Internship in Nontraditional Severe Disabilities (3) |
| SPE | 560 | Characteristics of Severe Disabilities (3) <br> (Prerequisite: SPE 500) |
| SPE | 562 | Research and Practices of Severe Disabilities at the Secondary Level (3) |

(Prerequisite: SPE 560)
** SPE 546, Internship in Nontraditional Severe Disabilities is equivalent to undergraduate student teaching and requires a semester long internship in the public schools. This should be scheduled during the last semester of course work.

## *38-41 Semester Hours Required for this Degree

Undergraduate Requirements:
ESE 383 Reading in the Content Areas (2)
SPE 382 Curriculum Methods for the Developmentally Disabled (3)
SPE 384 Curriculum and Strategies for Learning and Behavior Disabilities (3)
SPE 385 Curriculum and Behavior Management (3)
SPE 416 Assessment of Teaching/Learning (3)

## ALTERNATIVE FIFTH-YEAR PROGRAM <br> MASTER OF ARTS <br> MAJOR: MUSIC/ INSTRUMENTAL (P-12)

Required Courses ( $\mathbf{3 1 - 3 4}$ semester hours):
EFD 515 Seminar in Schools and Learning (3)
EFD 560 Psychological Principles of Learning (3)
EPY 429G Developmental Psychology (Lab Required) (3)
ESE 567 Improvement of Reading in Secondary Schools (3)
MED 442G Measurement and Evaluation in Music (3)
MED $\quad$ 471G Elementary Music Materials and Methods (3)
MED 481G Secondary Music Materials and Methods (3)
MED 511 Research Methods in Music and Music Educ. (3)
MED 512 Seminar in Instrumental Music (3)
MED 587 Internship in Music P-12 (4)
( $50 \%$ time at the elementary and $50 \%$ time at the secondary level; offered Fall and Spring during public school hours)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

Teaching Field Requirements ( 12 semester hours):
A student may transfer no more than three semester hours in the teaching field.
MU 505 Music Literature: Medieval-Renaissance (3)
MU 506 Music Literature: Baroque Era (3)
MU 507 Music Literature: Classic-Romantic (3)
MU 508 Music Literature: Contemporary Era (3)

## *Music Education Elective: $\mathbf{0}$ or $\mathbf{3}$ semester hours:

By faculty advisement, 3 graduate semester hours in music education numbered at the 400G or 500 level.

## 46 Semester Hours Required for this Degree

Undergraduate Requirements:
59 semester hours of course work from the area of music to include: 20 semester hours of music theory, 4 semester hours of music history, 5 semester hours of conducting, and 5 semester hours of class applied music.

## ALTERNATIVE FIFTH-YEAR PROGRAM <br> MASTER OF ARTS MAJOR: MUSIC/ VOCAL/CHORAL (P-12)

## Required Courses (31-34 semester hours):

| EFD | 515 | Seminar in Schools and Learning (3) |
| :--- | :--- | :--- | :--- |
| EFD | 560 | Psychological Principles of Learning (3) |
| EPY | 429 G | Developmental Psychology (Lab Required) (3) |
| ESE | 567 | Improvement of Reading in Secondary Schools (3) |
| MED | 442 G | Measurement and Evaluation in Music (3) |
| MED | 471 G | Elementary Music Materials and Methods (3) |
| MED | 481 G | Secondary Music Materials and Methods (3) |
| MED | 509 | Seminar in Choral Music (3) |
| MED | 511 | Research Methods in Music and Music Education (3) |
| MED | 587 | Internship in Music P-12 (4) |

( $50 \%$ time at the elementary and $50 \%$ time at the secondary level; offered Fall and Spring during public school hours)
*SPE 500 Survey Course in Special Education (3)
Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500 and have 0 electives.

Teaching Field Requirements ( 12 semester hours):
A student may transfer no more than three semester hours in the teaching field.
MU 505 Music Literature: Medieval-Renaissance (3)
MU 506 Music Literature: Baroque Era (3)
MU 507 Music Literature: Classic-Romantic (3)
MU 508 Music Literature: Contemporary Era (3)

## *Music Education Elective: $\mathbf{0}$ or $\mathbf{3}$ semester hours:

By faculty advisement, 3 graduate semester hours in music education numbered at the 400 G or 500 level.

## 46 Semester Hours Required for this Degree

Undergraduate Requirements:
59 semester hours of course work from the area of music to include: 20 semester hours of music theory, 4 semester hours of music history, 5 semester hours of conducting and 5 semester hours of class applied music.

## COUNSELOR EDUCATION COURSES

## Prefix ECG

510. Introduction to Counseling (3). Basic introductory course including historical, theoretical, and practical aspects related to the function and roles of counselors in a variety of settings.
511. Program Development (3). Examination of program organization and implementation of the functions and responsibilities of counselors in various field settings.
512. Multicultural Issues (3). Integrative study of the societal changes impacting the practice of counseling; cross-cultural counseling and pluralistic trends emphasized.
513. Skills Development (3). The practical application of selected skills and strategies with a focus on the interview process. Prerequisites: ECG 510 and ECG 553.
514. Legal and Ethical Issues (3). Selected legal and ethical issues in counseling. An in-depth review of ethical standards of professional organizations and licensure boards will be included.
515. Diagnosis and Treatment of the DSM Disorders (3). Examination of the history, description, definition, causes, and treatment of psychological disorders; topic areas include psychological disorders throughout the life span, multiaxial assessment, DSM diagnosis, and treatment of the disorders.
516. Consultation/Interventions (3). Study of consultation within schools and community agencies emphasizing behavioral, mental health, and organized models. Also includes planning, selecting, and implementing appropriate interventions.
517. Theory and Process (3). An examination of the major counseling theories and related techniques and an overview of the counseling relationship.
518. Career Development (3). An introduction to career development theories and concepts and related resources and practices for career planning and decision making.
519. Counseling Children/Adolescents (3). Development of programs, practices, and techniques which address the unique needs of children and youth through college age.
520. Introduction to Student Personnel (3). Historical and practical aspects of student personnel services and a review of the relationship of these services to each other and to student development.
521. Issues in Student Personnel (3). Study of current issues and trends in the development and implementation of student personnel programs. Prerequisite: ECG 573.
522. Counseling Practicum (3). Supervised observation and application of counseling concepts, principles, and techniques in field settings. Prerequisites: ECG 510, ECG 525, ECG 553 and ECG 591.
523. Crisis Counseling (3). Basic concepts and steps of crisis intervention with a focus on the background, dynamics, and strategies related to specific crises.
524. Group Procedures in Counseling (3). Principles of group counseling, ethical considerations and dynamics of group interaction. Implement theories and techniques in group therapy sessions. Multicultural problems included. Prerequisites: ECG 510 and 553.
525. Internship in School Counseling (3). A 300 clock hour supervised field experience in an appropriate K-12 school setting. Prerequisites: Permission of the instructor; ECG 585. Must be completed at JSU.
526. Internship in Community Agency Counseling (3) (3). Each course requires a 300 clock hour supervised field experience in an appropriate job setting; limited to three semester hours in enrollment periods of less than 15 weeks. Prerequisites: Permission of the instructor; ECG 585.
527. Internship in Student Personnel (3). A 300 clock hour supervised field experience in an appropriate job setting. Prerequisites: Permission of the instructor; ECG 585.

Note: 600 level courses are open only to persons holding master's degrees.
634. Advanced Counseling Theories (3). Examination of a variety of counseling theories through selection, both individually and as a group, of theories on which to focus throughout the semester.
637. Advanced Career Counseling (3). Laboratory-based course, merging contemporary career theory with actual field practice; selection and administration of a battery of assessment instruments to individuals at significant life stages, scoring and interpretation of the test battery; presentation of findings and recommendations.
646. Advanced Group Procedures in Counseling (3). Various theories of group work, review of basic group leadership skills, and basics of group process; provides integration of concepts and skills; opportunities to lead groups with supervision and ongoing feedback, participation in demonstrations of various group models, writing of reaction/thought/positions papers.
693. Supervision in Counseling (3). Study of the supervision process in counseling highlighting legal and ethical issues, trends, multicultural considerations, and evaluation; both classroom seminars and supervision of master's students in clinical experiences required.

## EARLY CHILDHOOD EDUCATION COURSES <br> Prefix ECE

500. Materials and Methods (3). Process of development in specific content areas and implementation of educational programs for young children.
501. Behavior and Development in Early Childhood (3). Physical, emotional, intellectual, and social components of development, their interrelationships and their effect on later functioning; psychological principles.
502. Practicum in Early Childhood Special Education (3). Practicum experiences working with the young handicapped child, ages infancy to eight.
503. Individualization of Education for Young Children (3). Methods and procedures for individualizing instruction.
504. Designing Programs for Young Children (3). Theory, school design, scheduling, and equipment. A practicum is required.
505. Implementation and Administration of Early Childhood Programs (3). Supervision and implementation of programming of early childhood programs with emphasis on communication with professionals and lay-citizenry of goals and purposes of early childhood programs.
506. Issues \& Trends in Early Childhood Education (3). Current issues and trends in early childhood education.
507. Enhancing Learning Through Children's Literature (3). Techniques and strategies to utilize children's literature to enhance the early childhood curriculum. (ECE 533 is cross- listed with EED 533 and only one course may be counted for credit.)
508. Teaching Reading in ECE (3). Methods, materials and research findings concerned with beginning reading instruction emphasizing P-3. (ECE 538 is cross-listed with RDG 538 and only one course may be counted for credit.)
509. Teaching Writing in Early Childhood Education (3). Theories, methods, and current research involving writing instruction; emphasis on P-3.
510. Intervention in the Early Childhood Classroom (3). Theory and research-based practices used in early childhood education and early education special education. Emphasis on strategies to plan developmentally appropriate activities for all children..
511. Internship in Early Childhood Education (3). Classroom experiences in grades P-3, under the supervision of a cooperating teacher and a university supervisor. A full-time assignment for a minimum of 15 weeks which includes at least 450 clock hours in a public school. Prerequisite: Admission to Alternative Fifth-Year Teacher Certification Program. Scheduled at end of program; offered Fall and Spring semesters.

Note: 600 level courses are open only to persons holding master's degrees.
631. Teacher as Researcher/Issues and Trends in ECE (3). Exploration of current research and issues and trends in early childhood education; review and comparison of selected teacher research projects, and examination of the concept and practice of teacher research as a strategy to build school collaboration and strengthen the professional role of teachers. (ECE 631 is cross-listed with EED 631 and only one course may be counted for credit.)
642. Professional Publications in Early Childhood Education (3). Opportunity for students to develop and refine professional writing skills. (ECE 642 is cross-listed with EED 642 and only one course may be counted for credit.) Prerequisite: ECE 631.

## EDUCATIONAL ADMINISTRATION COURSES

Prefix EAD

553. Instructional Leadership (3). Principles of curriculum development, staff development, and instructional leadership at the local school and system levels.
554. Management of Student Services (3). Procedures and policy development with regard to student services and school management.
555. School Administration (3). Analysis of basic concepts of school administration with special emphasis on leadership, management, and administration.
556. School Finance (3). Procedures and practices in educational finance and budgeting at local, state, and national levels.
557. Law and Politics of Education (3). Legal and political structures under which public schools function with emphasis on school-community interaction and student services.
558. Internship in Educational Administration (3). Supervised field-based experiences; observation, study, and analysis of the administration of educational programs in selected schools; requires a minimum of 300 clock hours of supervised internship. Prerequisites or Corequisites: EAD 553, 556, 562, 563, 564 recommended; should be scheduled near end of program; offered Fall and Spring. Must be completed at JSU.

Note: 600 level courses are open only to persons holding master's degrees.
610. Research in Educational Administration (3). Introduction to and utilization of essential research skills with an emphasis on application, ethics, and report-writing as commonly needed in the field; should be scheduled early in the program.
622. Effective Schools Research (3). Critique of research literature on effective schools and effective instruction with implications for school administrators.
636. School Plant Planning (3). Procedures and issues related to design, development, and operation of educational plant facilities.
637. School Personnel Administration (3). Procedures and issues related to administration of effective and efficient school personnel programs.
648. Curriculum Issues in Administration (3). Analysis and discussion of curriculum issues and application of a process approach to curriculum review and development in the local school/school district level.
655. Supervision and Staff Development (3). Study of theories of supervision; assessing, planning, implementing, and evaluating staff development programs; mentorships.
681. Problems in Educational Administration I (3). Development of a practical problem- solving in relation to the administration of schools and school systems culminating in a public presentation of a school-based problem-solving project. Prerequisite: Permission of the advisor. Course must be scheduled near end of program.
682. Problems in Educational Administration II (3). Continuation of practical problem - solving in relation to the administration of schools and school systems culminating in a public presentation of a school based problem-solving project. Prerequisite: EAD 681.

## EDUCATIONAL PSYCHOLOGY COURSES

## Prefix EPY

429G. Developmental Psychology (2). Intellectual, emotional, social, physical, and moral development in the school age person. Tutoring practicum required.
442G. Educational Measurement (2). Measurement/evaluation of students' academic progress and basic statistical principles. Construction and uses of teacher-made tests and standardized achievement tests are emphasized.
525. Lifespan Development (3). A study of principles and concepts of physical, cognitive, personality, and social development from birth through death.
592. Individual/Group Appraisal (3). Underlying concepts of assessment methods, practice in administration and interpretation of standardized tests, and evaluation of assessment instruments and programs. (PSY 521 may be taken in lieu of this course upon approval of the Counselor Education advisor.) Prerequisite: EFD 501 or equivalent.

## ELEMENTARY EDUCATION COURSES

## Prefix EED

533. Enhancing Learning Through Children's Literature (3). Techniques and strategies to utilize children's literature to enhance the elementary education curriculum. (EED 533 is cross- listed with ECE 533 and only one course may be counted for credit.)
534. Teaching Mathematics (3). Advanced course in materials and teaching techniques for improving math concepts and skills.
535. Teaching Reading (3). Teaching reading and diagnosis and correction of reading difficulties. (EED 542 is cross-listed with RDG 542 and only one course may be counted for credit.)
536. Teaching Social Studies (3). Advanced course in materials and methods of teaching social studies emphasizing individual research projects.
537. Teaching Science (3). Problems in development of science program in the elementary school; facilitating children's learning of science - its concepts and attitudes.
538. Teaching Language Arts (3). Scope and sequence of total language arts program in the elementary school; individual research projects. (EED 545 is cross-listed with RDG 545 and only one course may be counted for credit.)
539. Diagnosing Reading Abilities (3). Research in diagnosing reading abilities, handling current diagnostic tools, and construction of evaluation of instruments. Prerequisite: Three semester hours of graduate study in reading or language arts.
540. Reflective Teaching Practices (3). Current teaching practices examined in scheduled seminars and then implemented in an elementary classroom setting. (Not open to students enrolled in Alternative Fifth-Year Teacher Certification or Ed.S. programs.)
541. Remedial Procedures in Elementary School (3). Provision of diagnostic and remediation skills in helping teachers remediate deficient learning skills of students in all curriculum areas.
542. Internship (3). Classroom experiences in grades K-6 under the supervision of a cooperating teacher and a university supervisor. A full-time assignment for a minimum of 15 weeks which includes at least 450 clock hours in a public school. Prerequisite: Admission to Alternative Teacher Fifth-Year Certification Program. Scheduled at end of program; offered Fall and Spring.

Note: 600 level courses are open only to persons holding master's degrees.
631. Teacher as Researcher/Issues and Trends in EED (3). Exploration of current research and issues and trends in elementary education; review and comparison of selected teacher research projects, and examination of the concept and practice of teacher research as a strategy to build school collaboration and strengthen the professional role of teachers. (EED 631 is cross-listed with ECE 631 and only one course may be counted for credit.)
642. Professional Publications in Elementary Education (3). Opportunity for students to develop and refine professional writing skills. (EED 642 is cross-listed with ECE 642 and only one course may be counted for credit.) Prerequisite: EED 631.

## FOUNDATIONS COURSES

## Prefix EFD

500. Research in Education (3). An interpretation and conceptualization of research in education with a focus on how to locate, read, and analyze research as well as educational implications.
501. Tests and Measurements (3). Emphasizes statistical underpinnings of testing, technical aspects of measurement, process of test development, interpretation of test scores, sources of testing information, and standardized instruments. (Counselor Education students with a community agency counseling concentration may take PSY 512 in lieu of this course by advisement only.)
502. Curriculum Development (3). Overall process of curriculum construction and revision.
503. Proactive Orientation for Teachers (3). Orientation to organizational theory, site-based management, leadership skills, decision-making skills, and problem-solving strategies in secondary schools.
504. Seminar in Schools and Learning (2). Survey of the psychological, sociological, philosophical foundations of American education.
505. Independent Research (1). Prerequisite: Permission of the instructor and approval of the department head.
506. Independent Research (2). Prerequisite: Permission of the instructor and approval of the department head.
507. Independent Research (3). Prerequisite: Permission of the instructor and approval of the department head.
508. Philosophy of Education (3). Contemporary philosophies of education, their historical development, and the beliefs tantamount to each.
509. Social Foundations of Education (3). Analysis of current issues and trends throughout society with implications for education.
510. Diversity Issues in Education (3). Study of issues in multiculturalism, globalism and comparative education as they influenced educational leadership, school curricular design and emerging educational policy.
511. Psychological Principles of Learning (3). Advanced study of nature of knowledge, learning, and learner with emphasis on the teaching-learning process.
512. Seminar in Contemporary Education (3). Selected contemporary problems in education.

Note: 600 level courses are open only to persons holding master's degrees.
615. Leadership in Education (3). Study of theories, models, and techniques for enhancing effective leadership in group settings in the context of site based management; practical applications through self-analysis and skill development.
632. Assessment in Education (3). Current issues in educational assessment, including qualitative and quantitative approaches, strategies for program development and improvement.
681. Problems in Education I (3). Identification and analysis of problems specific to the current educational environment with emphasis on development of innovative and unique solutions. To be taken toward the end of program.
682. Problems in Education II (3). Continuation of identification and analysis of problems specific to the current educational environment with emphasis on development of innovative and unique solutions. Prerequisite: EFD 681. Must be taken in the last semester of enrollment.

## HEALTH AND PHYSICAL EDUCATION COURSES

## Health Education

## Prefix HLT

545. Stress Management Strategies for the HPE Teacher (3). Designed to inform the HPE teacher and others about physiological, sociological, and psychological stressors, emphasis is on stress responses and relaxation technique strategies. (HLT 545 is cross-listed with PE 545 and only one course may be counted for credit.)

## Prefix PE

Physical Education students must concentrate in one of the following areas: special physical education, physical education-pedagogy, or sports science.

Special Physical Education
580. Adapted Physical Education (3). Comprehensive study to develop ability to deal successfully with handicapped children, youth, and adults in a variety of settings.
581. Advanced Practicum in Special Physical Education (3). Supervised field experience in applying skills, knowledge, and concepts in special physical education; supervised work with the handicapped.
582. Research Seminar in Special Physical Education (3). Critical analysis and evaluation of current research and practical application in the field of special physical education.
583. Perceptual Motor Development (3). Development of perceptual-motor skills through physical activities; including locomotor skills, laterality and direction ability; investigations of theories, programs, activities, and evaluation.

Physical Education - Pedagogy
409G. Methods of Teaching PE, P-5 (3). Methods and techniques of teaching P-5 physical education. Prerequisite: Admission to alternative fifth-year teacher certification program.
410G. Methods of Teaching PE, 6-12 (3). Methods and techniques of teaching 6-12 physical education. Prerequisite: Admission to alternative fifth-year teacher certification program.
451G. Tests and Measurements in PE (3). Techniques of test evaluation, administration, and interpretations; emphasis on physical fitness, body mechanics, sports skills, and knowledge tests. Prerequisite: Admission to Alternative Fifth-Year Teacher Certification Program.
462G. Physical Education Program (3). Study of curriculum, teaching methods, skills, and the organization and administration of PE programs. Prerequisite: Admission to Alternative Fifth-Year Teacher Certification Program.
510. Physical Education Curriculum (3). Program, organization, and development of curriculum materials for guiding teachers, students, and administrators in the improvement of curriculum and instruction.
540. Physical Education and Law (3). Legal implications of those involved with physical education, recreation, and athletic programs.
560. Readings in Physical Education (3). Identification and analysis of current issues and trends; recent developments in physical education, curriculum, and practices in physical education.
568. Administration of Athletics (3). Place of interscholastic athletics in the program, organization and administration of program, budget, equipment, facilities, public relations, and legal liability.
585. Physical Activity and the Aging Process (3). Examination of scientific evidence concerning the relationship between physical activity level and physical, mental, and social-psychological wellbeing during aging.
587. Internship in PE, P-12 (3). Student teaching in grades P-12 under the supervision of a cooperating teacher and a university supervisor; full-time assignment for a minimum of 15 weeks which includes at least 450 clock hours in a public school. Prerequisites: Admission to Alternative Fifth-Year Teacher Certification: Program; EPY 429G. Scheduled at end of program; offered Fall and Spring.
596. Independent Study in PE (1). Opportunity to explore a particular area of personal interest in PE. Prerequisite: Permission of the instructor and approval of the department head.
597. Independent Study in PE (2). Opportunity to explore a particular area of personal interest in PE. Prerequisite: Permission of the instructor and approval of the department head.
598. Independent Study in PE (3). Opportunity to explore a particular area of personal interest in PE. Prerequisite: Permission of the instructor and approval of the department head.
502. Sociology of Sport (3). Analysis and study of human behavior patterns as they relate to participation in sports and games.
503. Sport History (3). Development of sport in the U.S. and other countries.
530. Physiology of Exercise (3). Experiences in physiology of muscular activity and application of these to physical education, training, and health.
535. Skill Analysis (3). Basic skills involved in several individual and team sports; special attention will be given to body movement.
539. Diet and Performance (3). Study of the basic nutrients and different types of diets, and their effects on health related and sports related fitness.
545. Stress Management Strategies for the HPE Teacher (3). Designed to inform the HPE teacher and others about physiological, sociological, and psychological stressors, emphasis is on stress responses and relaxation technique strategies. (HLT 545 is cross-listed with PE 545 and only one course may be counted for credit.)
575. Physical Fitness and Health (3). Research evidence of relationships of physical exercise to the following: longevity, weight control, cardiovascular disease, low back pain, mental health, and aging.

## LIBRARY MEDIA COURSES

## Prefix EIM

410G. The Information Age Classroom (3). Benefits, application, and production of advanced academic technology to the information classroom. Prerequisite: Admission to the Alternative Fifth-Year Teacher Certification Program.
502. Technology in Education (3). The use of technology in the school setting. Research, small group discussions, and demonstrated applications will be emphasized.
503. Computer Based Instructional Technologies (3). Basic introduction to theory and operations of microcomputing hardware and software for instructional purposes; concepts presented include computer systems, hardware and software; hands-on experience with selected productive software packages pertinent to the K-12 environment.
504. Current and Emerging Instructional Technologies (3). Application of current and emerging instructional technology in the information age classroom. Prerequisite: EIM 503 or permission of the instructor.
505. Curriculum Integration of Technology (3). Study of concepts and techniques for integrating various technology tools into K-12 curricula; emphasis on problem solving with intuitive and systematic methods with implementation of solutions to be done with various technology tools \& computers, appropriate software, multi-media devices, and courseware authoring software. Prerequisites: EIM 503 and 504 or permission of the instructor.
512. Young Adult Literature (3). Evaluation of books and other materials for junior/senior high school students. Selection aids, selection criteria, and interests, needs, and abilities of young adults emphasized; children's literature component included for those who have not previously taken a children's literature course.
513. Management of Media Centers (3). Policies and procedures relative to the operation of a media center.
514. Classification and Cataloging of Media (3). Principles and procedures of classifying and cataloging print and non-print media.
515. Internship in Media Services (3). Directed experience in performing various services in a school library media center. Prerequisite: Permission of the instructor. Must be completed at JSU.
516. Practicum in Media Services (3). Directed experience in performing various services in a school library media center. Prerequisites: EIM 515 and permission of the instructor.
520. Reference Materials (3). Study and evaluation of basic reference sources and services.
550. Automation of the Media Center (3). The processes and technology involved in the automation of a school media center.
555. Instructional Design (3). Design and development of a systematic approach to learner-based instruction emphasizing the role of media in the communication process.

## MUSIC EDUCATION COURSES

Prefix MED

442G. Measurement and Evaluation in Music (3). Evaluation of current achievement and aptitude measurements in music; problems in measurement of musical performance; preparation of examination material and the computation of basic statistical formulae.
471G. Elementary Music Materials and Methods (3). Methods, materials, and problems of teaching general music; grades P-6.
481G. Secondary Music Materials and Methods (3). Professional preparation of music teachers, grades 7-12; computer literacy and development of fundamental computer skills for music educators.
508. Instrument Repair (3). Repairs that the public school instrumental music teacher will encounter in everyday teaching.
509. Seminar in Choral Music (3). Acoustical problems and basic techniques relating to choral medium; problems of ensemble, balance, precision, and interpretation; materials and musical literature for large and chamber choral ensembles.
510. Seminar in Music Education (3). Philosophies and objectives of music in schools; scope and sequence of music curricula on elementary and secondary levels.
511. Research Methods in Music and Music Education (3). Application of methods of research to problems in music and music education; preparation of bibliographies and written exposition of research projects in area of student's major interest.
512. Seminar in Instrumental Music (3). Acoustical properties and basic techniques of instruments; problems of ensemble and balance, intonation, precision, and interpretation; materials and musical literature and orchestras, bands, and small ensembles.
519. Advanced Conducting (3). Intensive study in repertoire of various performing media; includes parallel or supplementary reading and a paper dealing with some aspect of conducting. Prerequisite: MU 390 or equivalent.
587. Internship in Music P-12 (4). Supervised classroom observation and student teaching in vocal and/or instrumental music in grades P-12; full-time assignment for a minimum of 15 weeks which includes at least 450 clock hours in a public school. Prerequisite: Admission to Alternative FifthYear Teacher Certification Program. Scheduled at end of program; offered Fall and Spring.

## READING SPECIALIST COURSES

## Prefix RDG

538. Teaching Reading in ECE (3). Methods, materials and research findings concerned with beginning reading instruction emphasizing P-3. (RDG 538 is cross-listed with ECE 538 and only one course may be counted for credit.)
539. Teaching Reading (3). Examines the current material, practices, and research related to teaching reading in the elementary school. (RDG 542 is cross-listed with EED 542 and only one course may be counted for credit.)
540. Teaching Language Arts (3). Scope and sequence of total language arts program in the elementary school; individual research projects. (RDG 545 is cross-listed with EED 545 and only one course may be counted for credit.)
541. Improvement of Reading in Secondary Schools (2). Teaching reading in subject matter areas and developmental reading for high school students. Practicum required. (RDG 567 is cross-listed with ESE 567 and only one course may be counted for credit.)
542. Assessment and Diagnosis in Reading (3). Application of knowledge gained in course work; emphasis placed on using a variety of formal and informal assessment tools to determine the strengths and weaknesses of struggling readers while using this information to implement specialized instruction to enhance the student's literacy development; case study requires collection and interpretation of assessment data, planning, and implementation of remediation lessons for the struggling reader.
543. Intervention Strategies for Reading Instruction (3). Examines research-based best practices in effective intervention strategies for students experiencing difficulties in reading; reading materials
and programs will be examined and evaluated in terms of application for effective intervention instruction.
544. Practicum for Teachers of Reading (2). Application of knowledge gained in course work; emphasis placed on providing literacy services in developmental reading or reading intervention programs at a variety of levels.
545. Internship in the Organization and Supervision of Reading Programs (2). Application of knowledge gained in course work; emphasis placed on designing and implementing literacy programs, planning and providing professional development, providing leadership in literacy instruction and serving as a resource for teachers, administrators, and the community.

## SECONDARY EDUCATION COURSES

## Prefix ESE

420G. Teaching Mathematics (2). Materials and methods of teaching mathematics at the secondary level.
421G. Teaching Social Science (2). Materials and methods of teaching history and the social sciences at the secondary level.
422G. Teaching Language Arts (2). Materials and methods of teaching the language arts at the secondary level.
423G. Secondary School Science (2). Materials and methods of teaching the natural and physical sciences at the secondary level.
567. Improvement of Reading in Secondary Schools (2). Teaching reading in subject matter areas and developmental reading for high school students; practicum required. (ESE 567 is cross-listed with RDG 567 and only one course may be counted for credit.)
580. Internship in Secondary Education (4). Supervised teaching in grades 6-12; full-time assignment for a semester in a public school. Prerequisites: Admission to Alternative Fifth-Year Teacher Certification Program; EPY 429G, ESE 582, and the methods course applicable to the teaching field (ESE 420G, 421G, 422G, or 423G.) Scheduled at end of program; offered Fall and Spring.
582. Methods of Teaching in Secondary Schools (3). Contemporary methods of teaching in secondary schools; behavioral objectives, teaching techniques, and group and individualized instruction; offered Fall and Spring during public school hours to accommodate 40 hour practicum. Prerequisite: EPY 429G for those in Alternative Fifth-Year Teacher Certification Program.
591. Current Issues and Trends in Secondary Education (3). In-depth study of selected issues and trends affecting secondary schools, students, teachers, and decision makers.

## SPECIAL EDUCATION COURSES

## Prefix SPE

500. Survey Course in Special Education (3). Various areas of exceptionality including EMR and TMR, cognitive impairments, behaviorally disordered, multiple handicapped, learning disabled, gifted and talented, hearing impaired, visually impaired, speech and language disordered, and early education for the handicapped.
501. Functional Communication (3). Developmental approach to acquisition of language with emphasis on educational intervention for specific linguistic anomalies.
502. Characteristics of Students with Mild to Moderate Disabilities (3). Introduction to potential causes, characteristics, definitions, placement process, classification, and the matching of limited forms of intervention with students exhibiting disabilities of learning and behavior. Prerequisites: SPE 500.
503. Preferred Instructional Practices for Elementary Students with Disabilities of Learning and Behavior (3). Designed to familiarize students with assessment instruments, perspectives, therapeutic techniques, and curriculum materials associated with teaching students with disabilities of learning and behavior. Prerequisites: SPE 500, 516.
504. Preferred Instructional Practices for Secondary Students with Disabilities of Learning and Behavior (3). Designed to familiarize students with assessment instruments, perspectives,
therapeutic techniques, and curriculum materials associated with teaching students with disabilities of learning and behavior. Prerequisites: SPE 500, 516.
505. Assessment of Special Populations (3). Introduction to the evaluation tools used in the assessment of exceptional children.
506. Applying Behavior Analysis to Special Populations (3). Practical approach to applied behavior management through demonstration and application of frequently employed models of classroom intervention.
507. Internship in Nontraditional Severe Disabilities (3). Supervised classroom observations and participation with seminars; Alternative Fifth-Year students will do supervised teaching in either grade K-6 or 6-12; full-time assignment for a minimum of 15 weeks/400 clock hours is required; supervision for the Alternative Fifth-Year student will be provided by the Office of Clinical Experiences. Prerequisites: Approval for professional semester. Admission to and completion of the majority of the Alternative Collaborative Teacher Program. Should be scheduled during the last semester of course work. Offered Fall and Spring.
508. Medical, Legal, and Ethical Aspects of SPE (3). Prepare teachers with the following skills: needs of management techniques for students who have communicable diseases, medical diagnosis or who are considered medically fragile, the adverse effect of these conditions on learning and family function; administration of medications and health school care procedures, ability to serve as child advocate, identification of key legal issues.
509. Characteristics of Severe Disabilities (3). Broad overview of a typical development and characteristics of low incidence and severe disabilities; focuses on students with low incidence and severe physical, mental, and medical developmental disabilities at the graduate level. Prerequisites: SPE 500.
510. Research and Practices of Severe Disabilities, Elementary Level (3). Advanced study of methodologies, materials, and management techniques for students with severe physical, mental, and medical developmental disabilities K-6 grade; designed to enhance the capacity of teachers as creative decision makers who are committed to and capable of facilitating student learning in appropriate settings. Prerequisite: SPE 560.
511. Research and Practices of Severe Disabilities, Secondary Level (3). Advanced study of methodologies, materials, and management techniques for students with severe physical, mental, and medical developmental disabilities 6th - 12th grade; designed to enhance the capacity of teachers as creative decision makers who are committed to and capable of facilitating student learning in appropriate settings. Prerequisite: SPE 560
512. Internship in Disabilities of Learning and Behavior (3). Designed to provide practicum/internship application of previously learned skills in assessing and teaching students with disabilities of learning and behavior. Prerequisites: SPE 516 and SPE 517 or SPE 518.
513. Internship in Severe Disabilities (3). Supervised classroom teaching experience through on-site observation, as well as related assignments and seminars for graduate students in an actual teaching situation; experience provides a vehicle for discussing current practical issues and teaching strategies as they apply to existing problems in the teacher's classroom setting. Prerequisites: SPE 560 and SPE 561 or SPE 562.

Note: 600 level courses are open only to persons holding master's degrees.
620. Curriculum Development Seminar in Special Education (3). Individual student review and development of curriculum in special education field of interest; analysis of principles of early and present curricula and validity of prevailing practice.
624. Writing for Professional Publication (3). Refine and develop professional writing skills.

## EMERGENCY MANAGEMENT

The Master of Public Administration with a concentration in emergency management is designed to meet professional development needs of individuals employed in or planning a career in emergency management. A graduate certificate in emergency management is also available for non-degree students who wish to specialize in the area of emergency management. Upon satisfactorily completing the requirements of a graduate certificate, an entry will be made on the student's transcript.

## ADMISSION REQUIREMENTS FOR THE MASTER OF PUBLIC ADMINISTRATION WITH A CONCENTRATION IN EMERGENCY MANAGEMENT

Applicants who meet general admission requirements to the College of Graduate Studies are eligible for admission to this degree program. A particular undergraduate major is not specified for admission to this program.

## MINIMUM REQUIREMENTS FOR THE DEGREE

A total of 36 semester hours is required. The student must complete 15 semester hours in required public administration courses and 15 semester hours in the emergency management concentration.

Required emergency management courses: 15 semester hours
EM 505 Introduction to Emergency Management (3)
EM 515 Legal Aspects of Emergency Management (3)
EM 525 Damage Assessment and Recovery (3)
EM 535 Initiatives Against Terrorism (3)
EM 550 Integrated Emergency Management (3)
The remaining six hours are electives by advisement in a field appropriate to the student's interests and career objectives.

The course descriptions for the emergency management courses are provided below.
For course descriptions of the required public administration courses, see Public Administration, page178.

## ADMISSION REQUIREMENTS FOR A GRADUATE CERTIFICATE IN EMERGENCY MANAGEMENT

Applicants who meet general admission requirements to the College of Graduate Studies are eligible for admission to this certificate program. A particular undergraduate major is not specified.

## MINIMUM REQUIREMENTS FOR <br> A GRADUATE CERTIFICATE IN EMERGENCY MANAGEMENT

The student must complete the 15 semester hours of required emergency management concentration courses listed above. A student who completes the graduate certificate may apply the 15 hours of credit toward a Master of Public Administration degree. All course work for the MPA degree, including the emergency management concentration course work, must be completed within six years.
505. Introduction to Emergency Management (3). Scope, objectives, and principles of emergency management; preparedness, response, mitigation, and recovery strategies; roles of federal, state and local emergency management agencies, and private agencies.
515. Legal Aspects of Emergency Management (3). Overview of the most important federal and state legislation bearing on emergency management in various types of disasters.
525. Damage Assessment and Recovery (3). Examination of the methods used in disaster assessment and procedures for providing emergency supplies and services, including the establishment of surveillance systems after a disaster.
535. Initiatives Against Terrorism (3). Contemporary thinking and current initiatives against domestic terrorism including nuclear, biological, chemical and other hazards.
550. Integrated Emergency Management (3). Concepts, methodology, and elements of design and delivery of an integrated management system within the framework of county, state and federal systems. Prerequisites: EM 505,515 , and 525.
575. Medical Aspects of Emergency Management (3). An examination of emergency management and medical command systems, a look at the organization of first-level care at the disaster site, triage, management of mass casualties, disaster coroner operations, legal issues in medical disasters, provision of health services for disaster situations, disaster implications for medical facilities, the implementation of a disaster plan at a medical facility, development and updating and evaluating hospital disaster management plans.
595. Directed Studies in Emergency Management (3). Prerequisite: Permission of the instructor and approval of the department head.
596. Emergency Management Internship (3). Prerequisite: Permission of the instructor and approval of the department head.

## ENGLISH

The English Department offers courses leading to the Master of Arts with a major in English and supporting courses for the Master of Arts with a major in general studies. For students majoring in secondary education with a teaching field in English language arts, supporting courses are offered for the Master of Science in Education and the Educational Specialist degrees.

## ADMISSION REQUIREMENTS FOR THE MASTER OF ARTS WITH A MAJOR IN ENGLISH

In addition to meeting general admission requirements of the College of Graduate Studies, applicants for the Master of Arts with a major in English must have an undergraduate minor in English or its equivalent, as determined by the head of the English Department.

## MINIMUM REQUIREMENTS FOR THE DEGREE

Non-Thesis Option: Total of 30 semester hours. Minimum of 24 hours in approved English courses including three semester hours in Shakespeare at either the undergraduate or graduate level. Up to six hours may be taken in a related field upon written approval by the head of the English Department.

Thesis Option: Total of 30 semester hours. Minimum of 18 hours in approved English courses, including three semester hours in Shakespeare at either the undergraduate or graduate level, and six hours of thesis. Up to six hours may be taken in a related field upon written approval by the head of the English Department. See "Thesis Option and Procedure" on page 33.

Upon advisement, students may be required to demonstrate foreign language proficiency when a chosen program of study requires translation skills.

## ENGLISH COURSES

## Prefix EH

401G. Chaucer (3). The poet against the background of the Middle Ages.
402G. Special Studies in the English Renaissance (3). Dedicated to selected writers, themes, or genres.
408G. The Teaching of Composition (3). Study of current theory and practice in teaching composition in the junior and senior high schools. Development of practical programs to fit teaching needs of individual students.
409G. 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 directors will be viewed, ranging from the comedies of the thirties and forties to the work of Alfred Hitchcock and the fantasy of the Hollywood musical.
410G. American Drama (3). Examination of American drama as theater and literature, considering early plays in their historical contexts with emphasis on major American dramatists: beginning with Eugene O'Neill and progressing through Tennessee Williams, Arthur Miller, and Edward Albee, Beth Henley and August Wilson.
411G. Eighteenth-Century Literature (3). Survey of eighteenth-century English writers, focusing on major satirists such as Dryden, Pope, Swift, and Fielding; Johnson and his circle; some of the major novelists and dramatists; survey of "Pre-Romantics" (the poets of "sensibility").
412G. Victorian Poetry (3). Tennyson, Elizabeth Barrett and Robert Browning, Arnold, Swinburne, and other poets of the Victorian era.
413G. English Drama (3). Medieval background of Elizabethan drama and reading of representative plays of the Tudor and Stuart periods.
420G. Women's Literature (3). Six centuries of representative literature by women; emphasis on recent British, American, ethnic-American authors; discussion of women writers in relation to the traditional canon.
441G. The History of the English Language (3). Study of the origins and developments of the English language from Old English through Modern English, focusing on the historical, cultural, and linguistic forces affecting language change.

442G. Black Writers in America (3). Study of major twentieth century writers, including Wright, Ellison, Hughes, Baldwin, Toni Morrison, Alice Walker, and others.
452G. Literary Criticism (3). Prominent themes and theories, various critical approaches, and outstanding examples of literary criticism from Plato to feminism and African-American literary theory.
467G. Twentieth-Century English Fiction (3). British fiction of the twentieth century, including short stories and novels by modern and postmodern authors.
484G. Current New York Theatre (3). Study of the New York theatre at the time the course is offered; attending four current Broadway productions; visiting Lincoln Center for the Performing Arts and major art museums such as the Metropolitan Museum of Art, the Museum of Modern Art, and others.
502. Studies in Nineteenth-Century American Literature (3). Important literature of the century; writers examined may include Emerson, Thoreau, Whitman, Hawthorne, Melville, Twain, Dickinson, Douglass, and Jacobs.
510. The Eighteenth-Century Novel (3). Major novels of Defoe, Richardson, Fielding and such minor figures as Behn, Smollett, Goldsmith, Burney, and the early Gothic novelists.
512. Organizational Speech Communication (3). Analysis of speech communication variables operating in educational, volunteer, and governmental organizations.
551. Writing Project Summer Institute (3). Intensive study of theory and methodology of composition and composition instruction. Prerequisite: Admission to JSU Writing Project. (EH 551 must be taken in conjunction with EH 552.)
552. Summer Institute Practicum (3). Extensive writing and critiquing, with research and presentations on writing. Prerequisite: Admission to JSU Writing Project. (EH 552 must be taken in conjunction with EH 551.)
553. Contemporary American Literature (3). Twentieth-century American literature, with emphasis on the work of major poets, novelists, dramatists, and non-fiction writers.
554. Contemporary European Literature (3). Twentieth-century continental literature including such foundational figures as Mann, Kafka, Proust, Gide, Valery, and Pirandello; recent writers such as Alberto Moravia, Jean Anouilh, Andre Malraux, Jean-Paul Sartre, Simone de Beauvoir, Salvatore Quasimodo, Elio Vittorini, and Boris Pasternak.
555. Literature of the South (3). Best of Southern literature with emphasis on the work of major writers.
556. Victorian Literature (3). Prose fiction and nonfiction of the Victorian Age.
557. Studies in Non-Dramatic Elizabethan Literature (3). Literature of the late sixteenth- and early seventeenth-centuries, with emphasis as the instructor desires.
558. Studies in Romantic Literature (3). English literature of the late eighteenth and early nineteenth centuries; emphasis on Blake, William and Dorothy Wordsworth, Coleridge, Byron, Mary and Percy Shelley, and Keats; writers such as Godwin, Wollstonecraft, Burke, Paine, Barbauld, Smith, Hemans, Hazlitt, Hunt, and Clare also featured.
562. Studies in Shakespeare (3). Reading of representative works of Shakespeare, with attention to the history of Shakespearian scholarship and criticism.
564. Middle English Literature (3). Literature of England during the Middle Ages with emphasis on the romance and its background in general European literature.
565. Seventeenth-Century English Literature (3). Poetry and prose of the seventeenth-century, exclusive of Milton; special attention to metaphysical poetry.
570. Special Problems (3). Special readings and assignments approved by department head and instructor after consideration of the student's background.
571. Shakespeare's England (3). Part of program of study in Stratford-upon-Avon; visits to places associated with Elizabethan literature and extensive reading on social history of the period.
580. Shakespeare in the Theatre (3). Part of program of study in Stratford-upon-Avon; attendance at plays presented by the Royal Shakespeare Company and other companies with lectures and discussions on the plays; consideration may be given to modern playwrights also, depending on the RSC production schedule.
599. Thesis (3) (3). (Grade of Pass or Fail only) Prerequisite: Approval of Application for Thesis Option. See "Thesis Option and Procedures" on page 33.

## ENVIRONMENTAL SCIENCE MANAGEMENT

The Master of Public Administration with a concentration in environmental science management is designed to meet professional development needs of individuals employed in or planning a career in environmental management. A graduate certificate in environmental science management is also available for non-degree students who wish to specialize in the area of environmental science management. Upon satisfactorily completing the requirements of a graduate certificate, an entry will be made on the student's transcript.

## ADMISSION REQUIREMENTS FOR THE MASTER OF PUBLIC ADMINISTRATION WITH A CONCENTRATION IN ENVIRONMENTAL SCIENCE MANAGEMENT

Applicants who meet general admission requirements to the College of Graduate Studies are eligible for admission to this degree program. A particular undergraduate major is not specified; however, it is recommended that students enrolling in the program have a minimum of one year of college chemistry. ESC 500, Concepts in Environmental Science, or its equivalent, is a prerequisite for all ESC courses in the program. The intent of this prerequisite is to ensure that all students entering the concentration have had at least one course at either the undergraduate or graduate level that emphasized the interdisciplinary nature of environmental issues and their solutions. The faculty advisor will determine if the student has met this course requirement.

## MINIMUM REQUIREMENTS FOR THE DEGREE

A total of 36 semester hours is required. The student must complete 15 semester hours in required public administration courses and 15 semester hours in the environmental science management concentration.

Required environmental science concentration courses: 15 semester hours
SAM 510 Introduction to Spatial Analysis (3)
ESC $510 \quad$ Environmental Laws and Regulations (3)
ESC 525 Environmental Auditing (3)
ESC 535 Integrated Waste Management (3)
ESC 555 Risk Analysis (3)
The remaining six hours are electives by advisement in a field appropriate to the student's interests and career objectives. It is strongly recommended that the additional 6 elective hours be selected from courses in the environmental science management area.

The course descriptions for the environmental science management courses are provided below.
For course descriptions of the required public administration courses, see page 178 of this Bulletin.

## ADMISSION REQUIREMENTS FOR A GRADUATE CERTIFICATE IN ENVIRONMENTAL SCIENCE MANAGEMENT

Applicants who meet general admission requirements to the College of Graduate Studies are eligible for admission to this certificate program. A particular undergraduate major is not specified; however, it is recommended that students enrolling in the program have a minimum of one year of college chemistry. ESC 500, Concepts in Environmental Science, or its equivalent, is a prerequisite for all ESC courses in the program. The intent of this prerequisite is to ensure that all students entering the certificate program have had at least one course at either the graduate or undergraduate level that emphasized the interdisciplinary nature of environmental issues and their solutions. The faculty advisor will determine if the student has met this course requirement.

## MINIMUM REQUIREMENTS FOR A GRADUATE CERTIFICATE IN ENVIRONMENTAL SCIENCE MANAGEMENT

The student must complete the 15 semester hours of required environmental science management concentration courses listed above. A student who completes the graduate certificate may apply the 15 hours of credit toward a Master of Public Administration degree. All course work for the MPA degree, including the environmental science management concentration course work, must be completed within six years.

## ENVIRONMENTAL SCIENCE MANAGEMENT COURSES

## Prefix ESC

500. Concepts in Environmental Science (3). Overview of environmental science principles, environmental health effects of pollutants, and a discussion of possible solutions that can be implemented to minimize or eliminate damage to Earth. Emphasizes the interdisciplinary nature of environmental issues and their solutions. ESC 500 cannot be used to meet program/concentration requirements for graduation.
501. Environmental Laws and Regulations (3). Laws, regulations, and policies regarding environmental quality. Review of local, state, and national interrelationships with regard to promulgating environmental regulations. Local issues confronting regulatory agencies will be used to illustrate systems of pollution control and management. Prerequisite: ESC 500 or its equivalent.
502. Environmental Auditing (3). Overview of systematic auditing techniques with a focus on regulatory compliance, liability, environmental awareness, and ethics. The course will also cover process mapping as a tool of auditing, the new international standards (ISO 14000) and their implications on future industrial activity. Course will conclude with a class audit of a local facility and software application. Prerequisite: ESC 500 or its equivalent.
503. Integrated Waste Management (3). Overview of solid and hazardous waste issues at the local, state, national, and international levels. The focus on waste management will include a systems approach to waste separation and reuse, treatment and disposal of waste from both municipal and industrial activities. Prerequisite: ESC 500 or its equivalent.
504. Groundwater Hydrology (3). Basic principles of groundwater hydrology and transport of contaminants in groundwater systems; groundwater system characteristics; hydrologic properties of earth materials. Prerequisite: ESC 500 or its equivalent.
505. Risk Analysis (3). An in-depth study of methodologies for human and environmental risk analysis, with a focus on hazardous chemical releases. Case studies will be evaluated and compared. Prerequisite: ESC 500 or its equivalent.
506. Hazardous Waste Remediation (3). An overview of physical, chemical and biological techniques for treatment of hazardous wastes, and the application of these techniques to decontaminate soil, water, and air. Case studies will illustrate current field techniques. Prerequisite: ESC 500 or its equivalent.
591 Directed Research (3). In depth study of selected topic(s). Prerequisites: Permission of the instructor and approval of the department head and ESC 500 or its equivalent.

## GENERAL STUDIES

The Master of Arts with a major in general studies is an interdisciplinary degree characterized by its flexibility. After being admitted to the College of Graduate Studies, the student and the faculty advisor will plan a program of study designed to meet the student's specific needs. Courses must be selected from two or more academic disciplines. Electives approved by the advisor may be taken in any department offering graduate courses. Students will select courses from the following fields of study: anthropology, biology, computer science and information systems, criminal justice, drama, economics, English, geography, history, mathematics, music, political science, and psychology.

## ADMISSION REQUIREMENTS FOR THE MASTER OF ARTS WITH A MAJOR IN GENERAL STUDIES

Applicants who meet general requirements for admission to the College of Graduate Studies are eligible for admission to this degree program.

A maximum of six hours of graduate credit may be transferred; however, courses transferred must be applicable to the student's program of study.

## MINIMUM REQUIREMENTS FOR THE DEGREE

The student must complete a minimum of 30 graduate semester hours in approved courses, 18 graduate semester hours of which must be from two of the fields of study listed above. The remaining 12 hours may be completed in other fields selected by the student and the advisor.

## GENERAL STUDIES COURSES

Course descriptions are located in various programs listed alphabetically in this Bulletin.

## GEOGRAPHY

The Department of Physical and Earth Sciences offers supporting courses for the Master of Arts with a major in general studies. For students majoring in secondary education with a teaching field in social science or general science, supporting courses are offered for the Master of Science in Education and the Educational Specialist degrees. A graduate program is not offered in geography.

## GEOGRAPHY COURSES

## Prefix GY

422G. Geographic Views of History (3). Use of the geographic perspective to examine facets of World, United States, and Alabama history.
426G. Regions: Concepts and Methods (3). From Milksheds to Sunbelts: what are regions, how are they created, and how are they used to study the physical and cultural environment.
431G. Topics in Physical Geography (3)(3)(3). Advanced geographic study of various facets of the natural environment; topic selection varies; see instructor.
451G. Advanced GIS (3)(3)(3). Advanced training in selected geographic techniques; topic selection varies; see instructor.
501. Concepts in Cultural Geography (3). Application of geographical concepts and perspectives to the study of the world's culture regions. (May be used in the social science teaching field with a major in secondary education.)
510, 511, 512. Concepts in Earth Sciences (3) (3) (3). Selected topics in earth science such as atmosphere systems and processes, climatology, landform development, soils and biogeography. See instructor for specific topic(s) each term. (May be used in the general science and social science teaching fields with a major in secondary education.)
580, 581. Directed Studies (3)(3). (Grade of Pass or Fail only.) Prerequisites: Permission of the instructor and approval of the department head.
590, 591. Internship (3)(3). (Grade of Pass or Fail only.) Supervised assignment in an area agency or firm for a minimum of 150 hours.

## HISTORY

The History Department offers courses leading to the Master of Arts with a major in history and supporting courses for the Master of Arts with a major in general studies. For students majoring in secondary education with a teaching field in history or social science, supporting courses are offered for the Master of Science in Education and the Educational Specialist degrees.

## ADMISSION REQUIREMENTS FOR THE MASTER OF ARTS WITH A MAJOR IN HISTORY

In addition to meeting general admission requirements of the College of Graduate Studies, applicants for the Master of Arts with a major in history must have an undergraduate major in history or its equivalent, as determined by the head of the History Department.

## MINIMUM REQUIREMENTS FOR THE DEGREE

Non-Thesis Option: Total of 30 semester hours. Minimum of 27 hours in approved history courses, including HY 501. Up to three hours may be taken in a related field approved by the head of the History Department.

Thesis Option: Total of 30 semester hours. Minimum of 21 hours in approved history courses, including HY 501, and six hours of thesis. Up to three semester hours may be taken in a related field approved by the head of the History Department. See "Thesis Option and Procedures" on page 33.

Upon advisement, students may be required to demonstrate foreign language proficiency when a chosen program of study requires translation skills.

## HISTORY COURSES

## Prefix HY

400G. Europe in the High Middle Ages, Renaissance, and Reformation, 1300-1648 (3). European society as seen through its philosophy, religion, literature, and politics.
405G. Environmental History of the United States (3). Historical investigation of human interaction with the environment in the United States from the pre-colonial era to the present.
433G. American Social and Cultural History to 1865 (3). American society through its literature, religion, philosophy, and art; emphasis on immigration strains, European cultural transfer, and environmental adaptations which have formed the American character; readings in religion, philosophy, literature, and the arts.
434G. American Social and Cultural History Since 1865 (3). Continuation of HY 433G which evaluates shifting immigration origins; concentrated study of changing thought patterns resulting from Darwinism, rise of Big Business, theories of public interest, Pragmatism, and emergence of the U.S. as a world power.
436G. History of American Women (3). Survey of the history of women from the colonial period to the present with emphasis upon social, economic, political, and educational developments.
437G. Black America (3). Blacks in the U.S. from colonial times to present; emphasis on events of the twentieth century and the integral social relations between blacks and whites.
441G. The South Before 1860 (3). The colonization and the economic, political, social, and cultural development of the Old South, and its part in building the nation.
442G. The South Since 1860 (3). Issues which led to secession; the War Between the States; economic, political, and social results; recent tendencies and development.
443G. Introduction to Southern Culture (3). Study of the historic roots of regional culture, integrating topics such as "cult of the Lost Cause," religion, folk life, music, literature, and the transition from a rural/agricultural society to an urban/commercial/industrial one.
448G. The Westward Movement in American History (3). Significance of the frontier in American History; colonization of successive geographic areas; the West in relation to tariff, public lands, currency and banking; and crises resulting from expansion.

451G. History of Early America to 1783 (3). European background to exploration; exploration and settlement; Inter-Colonial Wars; political, social, economic, and cultural development within colonies.
452G. The Age of Jefferson and Jackson, 1783-1850 (3). Study of the development of the American Republic with special emphasis on the influence of Jefferson and Jackson; research and readings will focus on the evolution of democratic attitudes and institutions.
454G. The Beginning of Modern America, 1877-1914 (3). Description and evaluation of the shift of the U.S. from an agrarian to an industrial nation; heritage of the Civil War and Reconstruction; rise of the Great Moguls; mass production and technological change; rise of the labor union movement and organized farm protests; Spanish-American War; American involvement in World War I.
455G. The 1920s and the Great Depression (3). Detailed study of American political, diplomatic, and cultural history from President Woodrow Wilson through Franklin D. Roosevelt.
456G. Contemporary America, 1945-Present (3). Detailed study of American political, diplomatic, and cultural history since the end of World War II, part of course devoted to study of current events. Prerequisites: HY 201, 202.
465G. The British Empire and Commonwealth (3). Growth and development of the British Empire, with emphasis on factors leading to the Commonwealth of Nations. (Not open to those who have completed HY 305.)
468G. Constitutional History of England (3). Growth of common law, court system, and cabinet form of government from earliest times to present. (Not open to those who have completed HY 308.)
470G. American Diplomatic History to 1933 (3). History of the United States foreign relations beginning with the American Revolutionary Period and continuing through the decade of the 1920s; study of the historical changes in American foreign policy objectives which led to the increased size and importance of the United States.
471G. American Diplomatic History Since 1933 (3). Detailed study of United States foreign relations beginning with Franklin D. Roosevelt and continuing to the present.
480G. Colonial Latin America (3). Interaction of Native American, European, and African people in the Spanish and Portuguese empires of the Americas, concluding with the wars for independence.
481G. Modern Latin America (3). Examination of the political, economic, social, and cultural developments of the diverse Latin American nations since 1821, against a backdrop of tradition, reform, and revolution.
483G. United States-Latin American Relations (3). A survey of the diplomatic, economic, and cultural relations between the United States and Latin American Republics from 1810 to the present.
484G. The United States and the Caribbean Basin in the Twentieth Century (3). Examines the issues, problems and international relationship of the United States with the countries of the Caribbean, Central America, Mexico, Colombia, and Venezuela from the Spanish American War until the present.
485G. History of Mexico (3). A study of Mexico's past including pre-Columbian civilizations, the Spanish Conquest and Colonial period, the independence movement and the early republic, the struggle for nationhood, the modernization of Mexico with a special emphasis on the Mexican Revolution and the forces that shaped present day Mexico.
486G. The Andean Nations (3). A history of Colombia, Ecuador, Peru and Bolivia from pre-Colombian times until the present with an emphasis on the diversity of the peoples of these nations.
487G. History of Brazil (3). A survey of Brazil's history from 1500 until the present with an emphasis on The Empire of Brazil 1822-1889 and modern Brazil, 1889-present.
500. Special Problems (3). Directed readings or research project agreed to among student, instructor and head of the History Department.
501. Historiography and Historical Methods (3). Techniques of historical research, nature of history, theories of historical interpretation, and intensive study of controversies in history.
504. Modern European History (3). Major themes of European history from the seventeenth to the twentieth centuries including survey of relevant literature and interpretations.
510. American Foreign Policy to 1921 (3). Foundations of American foreign policy. (Not open to those taking credit for PSC 421G.)
534. American Social and Intellectual History from 1865 (3). Effect of the Industrial Revolution and urbanization of America on society and thought patterns in the U.S. as seen in the end of "American innocence" and the search for security in a changed America and a constantly changing world.
551. The South in the Nineteenth Century (3). Study of major economic, political, sociological, racial, cultural, and intellectual developments during the century.
553. Civil War and Reconstruction, 1860-1877 (3). Causes of the Civil War and political, social, economic, and military aspects of its conduct; examination of various interpretations of the Reconstruction period, regional and national.
554. Early Twentieth-Century History, 1900-1932 (3). Closing aspects of Spanish-American War, emergence of an imperial power; Theodore Roosevelt's Square Deal, 1901-1909; Imperialism and Dollar Diplomacy, 1901-1913; Taft and the Progressives; Woodrow Wilson and the New Freedom, 1913-1917; World War I and its aftermath, 1917-1929; restoration of the G.O.P.; hope for a new economic era; Hoover and the Depression, 1929-1932; election of 1932.
560. The French Revolution and Napoleon (3). Economic, social, political, military, and diplomatic aspects of years 1789-1815, with emphasis on France as the moving force of the period.
562. Diplomatic History of Europe, 1815-1914 (3). International relations of European states in 19th century, with emphasis on the Congress System, Eastern Question, Bismarckian System, and preWar balance of power.
564. History of Ideas, Renaissance through Enlightenment (3). Study of the principal ideas and scope of thought in political philosophy, philosophy of history, science and technology, fine arts, literature, and religion.
565. History of Ideas, Romanticism to the Present (3). Study of principal ideas and scope of thought in political philosophy, philosophy of history, science and technology, fine arts, literature, and religion.
567. Europe Since 1939 (3). Political analysis of development of individual states within framework of East-West conflict and economic competition and cooperation.
568. The South in the Twentieth-Century (3). Study of major economic, political, sociological, racial, cultural, and intellectual developments since the turn of the century.
570. Modern Far East History (3). Survey of Modern Far Eastern history with emphasis on China and Japan.
576. Tudor England (3). England's emergence as a modern state, 1485-1603; constitutional, economic, social, and intellectual developments during the Renaissance and Reformation.
577. Stuart England, 1603-1714 (3). Study of major political, social, economic, and religious developments in seventeenth century England.
578. Hanoverian England, 1714-1815 (3). Study of major political, social, economic, and diplomatic developments in eighteenth century England.
584. Modern Britain (3). Detailed study of Britain's political, social, diplomatic, and industrial development since 1865; Britain's experiment with socialism and decline as a great world power.
598. Research (3). In-depth study of selected topic(s). Prerequisites: Permission of the instructor and approval of the department head.
599. Thesis (3) (3). (Grade of Pass or Fail only) Prerequisite: Approval of Application for Thesis Option. See "Thesis Option and Procedures" on page 33.

## MATHEMATICS

The Mathematical, Computing, and Information Sciences Department offers courses leading to the Master of Science with a major in mathematics and supporting courses for the Master of Arts with a major in general studies. Students pursuing graduate degrees in secondary education who meet Mathematical, Computing, and Information Sciences Department admission requirements (described below) may take mathematics courses as their teaching field.

## ADMISSION REQUIREMENTS FOR THE MASTER OF SCIENCE WITH A MAJOR IN MATHEMATICS

In addition to meeting general admission requirements of the College of Graduate Studies, an applicant must have completed at least 12 semester hours, or equivalent, beyond the three course JSU calculus series or equivalent, including at least one course equivalent to MS 415, Advanced Calculus I, and one course equivalent to MS 441, Introduction to Abstract Algebra.

## MINIMUM REQUIREMENTS FOR THE DEGREE

Non-Thesis Option: Total of 30 semester hours in approved mathematics courses including four of the following five courses: MS $451 \mathrm{G}, 515,516,541$, and 542 . Only two of the following courses can be counted toward the 30 hours of course work: MS 504, 523, 526, 528, 530, 533, 535, 537, 549.

Thesis Option: Total of 30 semester hours. Minimum of 24 hours in approved mathematics courses including four of the following five courses: MS 451G, $515,516,541$, and 542 and six hours of approved thesis. Only two of the following courses can be counted toward the 24 hours of course work: MS 504, 523, 526, 528, 530, 533, 535, 537, 549. See "Thesis Option and Procedures" on page 33.

## MATHEMATICS COURSES

## Prefix MS

403G. Vector Analysis (3). Algebra and calculus of vectors, Stokes theorem, and divergence theorem; applications to geometry, mass potential functions, electricity, and fluid flow. Prerequisite: MS 241.
404G. Mathematical Statistics II (3). 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 nonparametric statistics. Prerequisite: MS 241 and 304.
416G. Advanced Calculus II (3). Selected topics from advanced calculus; elements of partial differentiation including the general theorems, Jacobians; topics on theory of integration. Prerequisite: MS 415.
423G. Survey of Geometries (3). Selected topics from advanced Euclidean geometry, finite geometries, non-Euclidean geometry, and other geometries. Prerequisites: MS 142, and either MS 323 (or equivalent) or permission of the instructor.
451G. Functions of a Complex Variable (3). Fundamental operations with complex numbers, differentiation and integration theorems, mapping, series, and residues. Prerequisite: MS 241.
480G. Introductory Topology (3). Basic topological concepts to include topological spaces, mapping, compactness, connectedness, and separation axioms. Prerequisites: MS 415.
484G. Partial Differential Equations (3). Standard methods of solution; separation of variables, Fourier Series, Laplace Transforms; selected applications. Prerequisites: MS 241 and 344.
504. Applied Statistical Methods (3). Fundamental concepts of descriptive and inferential statistics, probability distributions, estimation, and hypothesis testing; statistical software packages are used to facilitate valid analysis and interpretation of results; emphasis is on method and selection of proper statistical techniques for analyzing real situations. Prerequisite: Undergraduate minor in mathematics or permission of instructor.
505. Basic Logic and Set Theory (3). Basic topics in symbolic logic and naive set theory, including sets and set operations, symbolic logic, the language of set theory, and applications of set theory. Prerequisite: MS 300 or 415 or 441 .
515. Real Variables I (3). Selected topics from real analysis with emphasis on functions of one and several variables, measure, and the Riemann and/or Darboux integral. Prerequisite: MS 416 or permission of the instructor.
516. Real Variables II (3). Selected topics from real analysis emphasizing Lebesgue integration, sequences and series of functions. Prerequisite: MS 515.
517. Introduction to Functional Analysis (3). Introduction to the fundamental topics of functional analysis. Topics include metric spaces, completeness, linear operators, normed spaces and Banach spaces, inner product spaces, and Hilbert spaces. Objectives include the Riesz Representation Theorem, the Hahn-Banach Theorem, and the Contraction Mapping Theorem. Prerequisites: MS 352 and MS 415.
523. Topics in Geometry for Teachers (3). Classical theorems, ideas, and constructions of Euclidean and non-Euclidean geometry in theorems of Ceva, Menalaus, Pappus, and Feuerbach; homothetic transformations, inversion, harmonic sets of points, and cevians. Prerequisite: Undergraduate minor in mathematics.
526. Topics in Analytic Geometry for Teachers (3). Applications of Euclidean and homogeneous coordinates, geometric transformations, trigonometric, and vector techniques to geometric problems. Prerequisite: Undergraduate minor in mathematics.
528. Theory of Equations and Functions for Teachers (3). Topics in the theory of polynomial and other equations, and in the properties of transcendental functions. (The goal is the development of a deeper understanding of the equations and functions commonly encountered in precalculus mathematics.) May require the use of computer software. Prerequisite: Undergraduate minor in mathematics.
530. Foundations in Calculus for Teachers (3). Theory, problem solving techniques, and applications of differential and integral calculus, including the use of graphing calculators and computer software. (Recommended for students who are teaching or planning to teach Advanced Placement Calculus.) Prerequisite: Undergraduate minor in mathematics.
533. Topics in Modern Analysis for Teachers (3). Logic and set theory, functions and sequences, structure and development of the real number system including completeness. (Course designed for students majoring in secondary education with a teaching field in mathematics.) Prerequisite: Undergraduate minor in mathematics.
535. Topics in Finite Mathematics for Teachers (3). Elementary combinatorial analysis, probability, vectors and matrices, game theory, linear programming, and model building in the social and physical sciences. (Course designed for students majoring in secondary education with a teaching field in mathematics.) Prerequisite: Undergraduate minor in mathematics.
537. Foundations in Algebra for the Secondary Teacher (3). Concepts of high school algebra from the perspective of ring theory. Prerequisite: MS 441 or equivalent.
541. Abstract Algebra I (3). General group theory including cyclic groups and permutation groups, homomorphism and isomorphism theorems. Prerequisite: MS 441 or equivalent.
542. Abstract Algebra II (3). Theory of rings, ideals, fields, and integral domains. Prerequisite: MS 541.
549. Selected Topics in Mathematics for the Secondary Teacher (3). Selected topics suitable for the secondary teacher; problem solving; secondary school mathematics from an advanced standpoint. Prerequisite: Undergraduate minor in mathematics or permission of instructor.
552. Linear Algebra (3). Abstract treatment of finite dimensional vector spaces. Linear transformations, determinants, eigenvalues and eigenvectors, invariant subspaces, Rational and Jordan Canonical Forms, inner product spaces, unitary and normal operators, bilinear forms. Prerequisites: MS 352 and MS 441 or equivalent.
591. Seminar in Algebra (3) (3). Selected topics in modern algebra beyond the scope of the graduate algebra sequence. Topics may be chosen from the theory of groups, rings, fields, or modules; linear algebra; homological algebra; or other topics, depending on student and instructor interests. Prerequisites: MS 541 and 542 or permission of instructor.
595. Seminar in Analysis (3) (3). Selected topics in modern analysis beyond the scope of the graduate analysis sequence. Topics may be chosen from the fields of real analysis (measure theory and integration, special functions, finite differences, functional equations, sequences and series), complex variables, Fourier and harmonic analysis, integral transforms, operator theory, or other topics, depending on student and instructor interests. Prerequisites: MS 515 and 516 or permission of instructor.
598. Directed Readings (3) (3). Algebra, analysis, geometry, and topology. Prerequisites: Students must have two courses in the topical area chosen and approval by the faculty advisor in mathematics and the instructor.
599. Thesis (3) (3). (Grade of Pass or Fail only.) Prerequisite: Approval of Application for Thesis Option. See "Thesis Option and procedures on page 33.

## MUSIC

The Music Department offers courses leading to the Master of Arts with a major in music and supporting courses for the Master of Arts with a major in general studies. Within the Master of Arts with a major in music, students may elect one of two concentrations: general music or music education. Students who elect music education must choose between instrumental or vocal/choral.

The graduate programs in music are accredited by the National Association of Schools of Music.

## ADMISSION REQUIREMENTS FOR THE MASTER OF ARTS WITH A MAJOR IN MUSIC

In addition to meeting general admission requirements of the College of Graduate Studies, applicants for the concentration in general music must complete a qualifying examination given by the Music Department. The examination requires students to demonstrate competence in the theory of music and knowledge of the history and literature of music.

In addition to meeting general admission requirements of the College of Graduate Studies, applicants for the concentration in music education must hold a teaching certificate in the appropriate field.

## MINIMUM REQUIREMENTS FOR <br> THE MASTER OF ARTS WITH A MAJOR IN MUSIC

## Concentration in General Music

Non-Thesis Option: Total of 30 semester hours. The student must complete 15 semester hours in required music courses and 15 semester hours in approved music electives by advisement.

Thesis Option: Total of 30 semester hours. The student must complete 15 semester hours in required music courses, nine semester hours in approved music electives by advisement, and six hours of thesis. See "Thesis Option and Procedures" on page 33.

Required music courses: 15 semester hours
MU 505 Music Literature: Medieval-Renaissance (3)
MU 506 Music Literature: Baroque Era (3)
MU 507 Music Literature: Classic-Romantic (3)
MU 508 Music Literature: Contemporary Era (3)
MED 511 Research Methods in Music and Music Education (3)
The remaining hours are by advisement and depend on the option selected by the student.
Concentration in Music Education
Non-Thesis Option: Total of 30 semester hours. Minimum of 30 hours in approved music and education courses. The Thesis Option is not available in music education.

For the programs of study in music education see page 118, 119, 139, and 140 of this Bulletin.

## MUSIC COURSES

## Prefix MU

404G. Music Theory: Composition (3). Art of musical composition through analysis and application of contemporary techniques.
405G. Theory and Composition of American Jazz (3). Comprehensive. Formalized study of American jazz masterpieces from 1900 to the present.
408G. Art Song (3). Survey course examining major categories of solo vocal literature with detailed study of selected songs. Prerequisite: Permission of the instructor.
409G. Opera Literature (3). Development of opera as a form with detailed study of selected works.

415G. Advanced Brass Methods and Literature (3). Brass teaching materials for public schools or college teacher; examination of methods, etudes, and special studies of each instrument; recordings and corollary readings supplement discussion. Prerequisite: Permission of the instructor.
419G. Advanced Woodwind Methods and Literature (3). Woodwind teaching methods for public school or college teacher; examination of methods for public school or college teacher; examination of methods, etudes, and special studies of each instrument; recordings and corollary readings supplement discussion. Prerequisite: Permission of the instructor.
480G. Graduate Ensemble (1). Appropriate conducted or coached ensembles as approved by the department head and the graduate advisor.
481G. Graduate Ensemble (1). Appropriate conducted or coached ensembles as approved by the department head and the graduate advisor.
505. Music Literature: Medieval-Renaissance (3). Development of sacred and secular music throughout Medieval and Renaissance periods including Gregorian chant, motets, madrigals, and instrumental forms; specific examples taken from representative composers.
506. Music Literatures: Baroque Era (3). Development of instrumental and vocal music from 1600 to 1750; emphasis on musical examples from important composers of the period including early opera, oratorio, keyboard forms, chorale-based compositions, orchestral music, and concertos.
507. Music Literature: Classic-Romantic (3). History and literature of music beginning with early Classicism and leading to post-Romanticism; vocal and instrumental styles using examples from significant composers; keyboard forms, chamber music, symphony, opera, art song, and other media of performance.
508. Music Literature: Contemporary Era (3). Development of instrumental and vocal music since 1900; emphasis on musical examples from various schools of composition, including Impressionism, Primitivism, Neoclassicism, Expressionism, Serialism, Indeterminacy, and Minimalism.
519. Advanced Conducting (3). Intensive study in repertoire of various performing media; includes parallel or supplementary reading and a paper dealing with some aspect of conducting. Prerequisite: MU 210 or equivalent.
520. Music Theory: Style Analysis (3). Study intended to develop stylistic perception through analytical and historical examination of selected musical examples, Bach and Handel through Beethoven and Schubert.
521. Music Theory: Style Analysis (3). Continuation of 520; Debussy and Ravel to present.
522. Music Theory: Sixteenth-Century Counterpoint (3). Species counterpoint up to time of Monteverdi.
523. Music Theory: Eighteenth-Century Counterpoint (3). Late Baroque styles in canon, fugue, invention, and passacaglia; extensive writing and special projects.
534. Individual Applied Music (2). Primary applied area of student; instrumental or vocal material planned by instructor and student.
535. Individual Applied Music (2). Primary applied area of student; instrumental or vocal material planned by instructor and student.
599. Thesis (3) (3). (Grade of Pass or Fail only) Prerequisite: Approval of Application for Thesis Option. See "Thesis Option and Procedures" on page 33.

The Lurleen B. Wallace College of Nursing and Health Sciences offers courses leading to the Master of Science in Nursing (M.S.N.) with a major in community health nursing.

The College is accredited by the Commission on Collegiate Nursing Education (CCNE).
The primary mission of the College of Nursing and Health Sciences is to provide excellence in undergraduate and graduate professional nursing education, as well as to pursue scholarly activities and provide service to the community. The M.S.N. program is designed to prepare community health clinical nurse specialists to address a broad spectrum of health care needs across settings and populations, as well as to promote the health of communities and population groups. The curriculum builds on the foundation of baccalaureate education and requires 36 hours of course work, including two courses in community health with clinical practica. An informatics component is integrated into various courses in the curriculum.

## ADMISSION REQUIREMENTS FOR THE MASTER OF SCIENCE IN NURSING

Applicants for the Master of Science in Nursing must submit:

1. Completed JSU application
2. Non-refundable $\$ 20.00$ application processing fee
3. Bachelor's degree with a major in nursing from a regionally accredited university with a professionally accredited nursing program
4. Official transcript(s) from all postsecondary institutions attended. (Students who have previously attended JSU do not need to request a transcript from the University. It will be automatically received once a student has filed an application for graduate studies.)
5. A written statement setting forth career goals
6. Three "Graduate Reference Forms" completed by individuals who can provide qualitative assessment of applicant's potential for success in graduate course work and citing potential professional leadership ability. The "Graduate Reference Form" is available in the office of the College of Graduate Studies or online at http://www.jsu.edu/depart/graduate/forms.htm
7. Official test scores on the Graduate Record Examination (GRE) or the Miller Analogies Test (MAT). The GRE or MAT test must be taken within five years of enrollment.
8. A current RN license.

Applicants for the Master of Science in Nursing must meet the following requirements prior to registering for M.S.N. course work.

## Unconditional Admission

To obtain unconditional admission into the M.S.N. program, students must meet one of the following formula requirements:

450 times the undergraduate grade-point average on the initial undergraduate degree plus total score of verbal, quantitative, and analytical measures of the General Test of the Graduate Record Examination (GRE) is equal to or greater than a total of 2500 points;

15 times the undergraduate grade-point average on the initial undergraduate degree plus the Miller Analogies Test (MAT) score is equal to or greater than a total of 80 points.

## OR

450 times the undergraduate grade-point average on the last 64 hours attempted toward completion of on the initial undergraduate degree plus total score of verbal, quantitative, and analytical measures of the General Test of the Graduate Record Examination (GRE) is equal to or greater than a total of 2500 points;

## OR

15 times the undergraduate grade-point average on the last 64 hours attempted toward completion of the initial undergraduate degree plus the Miller Analogies Test (MAT) score is equal to or greater than a total of 80 points.

For purposes of computing the undergraduate grade-point average, a 4.0 grade-point scale is used. The plus $(+)$ and minus $(-)$ grades from undergraduate transcripts are not used in calculating the GPA.

Students are required to demonstrate proficiency in health assessment, research/statistics, and basic computer literacy. The graduate nursing faculty will conduct interviews and evaluate each applicant's undergraduate transcript and clinical nursing experience to determine adequacy of preparation in these areas. Students without adequate academic or experiential preparation may be required to complete additional undergraduate course work as part of their program of study. Grades achieved in these courses will not be included in the computation of the graduate GPA; however, students must earn a grade of B or above in each of these specified, required courses.

All requests for admission will be reviewed by the graduate nursing faculty. The faculty will submit to the dean of the College of Graduate Studies its recommendation on the admission of each candidate.

## Conditional Admission

Any student failing to meet the requirements for unconditional admission, as defined above, will receive a letter to that effect from the dean of the College of Graduate Studies. Under exceptional circumstances, consideration for conditional admission may be given to a student meeting one of the following formula requirements.

450 times the undergraduate grade-point average on the initial undergraduate degree plus total score of verbal, quantitative, and analytical measures of the General Test of the Graduate Record Examination (GRE) is equal to or greater than a total of 1900 points;

## OR

15 times the undergraduate grade-point average on the initial undergraduate degree plus the Miller Analogies Test (MAT) score is equal to or greater than a total of 55 points.

## OR

450 times the undergraduate grade-point average on the last 64 hours attempted toward completion of the initial undergraduate degree plus total score of verbal, quantitative, and analytical measures of the General Test of the Graduate Record Examination (GRE) is equal to or greater than a total of 1900 points;

## OR

15 times the undergraduate grade-point average on the last 64 hours attempted toward completion of the initial undergraduate degree plus the Miller Analogies Test (MAT) score is equal to or greater than a total of 55 points.

For purposes of computing the undergraduate grade-point average, a 4.0 grade-point scale is used. The plus $(+$ ) and minus ( - ) grades from undergraduate transcripts are not used in calculating the GPA.

All requests for admission will be reviewed by the graduate nursing faculty. The faculty will submit to the dean of the College of Graduate Studies its recommendation on the conditional admission of each applicant. The dean of the College of Graduate Studies will make the final decision on the conditional admission of the student.

Students who are granted conditional admission must achieve a GPA of at least 3.0 on the first 12 graduate hours attempted within the time frame specified by the graduate nursing faculty and indicated in writing to the student. Failure to comply will result in the students being dismissed from the program.

## MINIMUM REQUIREMENTS FOR THE DEGREE

The Master of Science in Nursing program consists of 36 semester hours; 30 semester hours of required graduate nursing courses and six hours of electives by advisement in a functional role in education or management. A comprehensive examination is required of all candidates.

Through an innovative partnership with Troy State University, JSU will utilize four existing Troy State courses ( 10 semester hours) as the core sequence in the community health program. Troy State nursing faculty will deliver these courses using distance education technology, primarily via Internet. The courses offered by Troy State include: NU 540 Theories of Nursing, NU 507 Advanced Health Assessment, NU 513 Advanced Pathophysiology, and NU 522 Research Methodology. In addition to these four courses from Troy State, students may transfer a maximum of six graduate semester hours toward completion of this program.

## MASTER OF SCIENCE IN NURSING

## Major: Community Health Nursing

| NU | 504 | Theories in Nursing (2) |  |  |  |
| :--- | :--- | :--- | :---: | :---: | :---: |
| NU | 507 | Advanced Health Assessment (3) |  |  |  |
| NU | 513 | Pathophysiology (3) |  |  |  |
| NU | 514 | Health Assessment Practicum (1) |  |  |  |
| NU | 519 | Issues in Community-Based Care (2) |  |  |  |
| NU | 522 | Research Methodology (2) |  |  |  |
| NU | 527 | Epidemiology (2) |  |  |  |
| NU | 534 | Statistics and Data Management (3) |  |  |  |
| NU | 540 | Community Health I (6) |  |  |  |
| NU | 545 | Community Health II (6) |  |  |  |
| Functional Role Electives (6 Semester Hours) by advisement |  |  |  |  |  |

## 36 Semester Hours Required for this Degree

## NURSING COURSES

## Prefix NU

504. Theories in Nursing (2). Explores the evolution and importance of knowledge and theory in nursing, mechanisms for developing and critiquing theory, and the analysis and application of theories in nursing practice. (TSU course: NSG 5504)
505. Advanced Health Assessment (3). Provides advanced knowledge of history and interviewing processes across the lifespan, physical examination, and clinical judgments regarding health care needs. (TSU course: NSG 5512)
506. Pathophysiology (3). Review of cellular structure and function with emphasis on cellular changes that give rise to pathology and disease; discussion of cellular and tissue physiology with a focus on pathological processes of major organs and body systems. (TSU course: NSG 6671)
507. Health Assessment Practicum (1). Practical application skills related to data collection and analysis essential to comprehensive health assessment of various age groups; validates knowledge to perform complete health assessment of individuals and families as they exist in the community as well as analyze collected data for indicators of health maintenance or alterations in health.
508. Issues in Community-Based Care (2). Provides opportunities to review, examine, and analyze selected issues that affect the discipline of nursing with specific emphasis on community-based practice; explores issues related to nursing taxonomies, computer and information technology; examines ethical issues in the delivery of health care and decision-making related to health needs of populations.
509. Research Methodology (2). Discussion of principles of the research process; emphasis on the utilization and generation of research relevant to nursing. (TSU course: NSG 6691)
510. Epidemiology (2). Study of various factors as they relate to the occurrence, frequency, and distribution of disease across the lifespan; includes origin, transmission, host/environmental factors that influence the development of disease, as well as issues related to health planning, policy, and evaluation.
511. Statistics and Data Management (3). Quantitative methods and statistics as applied to nursing and health care; topics include descriptive statistics, probability theory, sampling and statistical inference, hypothesis testing, regression and correlation analysis, and analysis of variance.
512. Community Health I (6). Application of advanced specialized knowledge relevant to promoting the health of communities; synthesis of public health science concepts; evaluation of community resources and delivery systems; analysis of patterns of health within the community-client model, the process of planning programs and health-promotion policies, and the utilization of community-based computer applications and telehealth. Clinical experiences will be designed to meet individual learning needs of the M.S.N. student in implementing the multifaceted role of the community health clinical nurse specialist; sub-role of the advanced nurse reinforced, with particular emphasis on the research utility and manager roles. Prerequisites: NU 504, 507, 513, 514, 519, 527, and 534.
513. Community Health II (6). Application of advanced specialized knowledge relevant to implementing, and evaluating programs for community health to include: communicable diseases, chronic diseases, environmental health, injury prevention, and community mental health; protecting the health of the public through the lifespan; and geographic distribution of health problems in the urban and rural environment. Clinical experiences will be designed to meet individual learning needs of the M.S.N. student in implementing the multifaceted role of the community health clinical nurse specialist; sub-role of the advanced nurse reinforced, with particular emphasis on the educator and consultant roles. Prerequisites: NU 540.
514. Advanced Practice Roles (3). Functional role elective; explores roles of clinician, educator, manager, consultant, and/or researcher; actual implementation of an advanced nursing role emphasized.
515. Independent Study (1). Special project in nursing/informatics studies. Prerequisite: Permission of the advisor.
516. Independent Study (2). Special project in nursing/informatics studies. Prerequisite: Permission of the advisor.
517. Independent Study (3). Special project in nursing/informatics studies. Prerequisite: Permission of the advisor.
518. Thesis (3) (3). (Grade of Pass or Fail only) Prerequisite: Approval of Application for Thesis Option. See "Thesis Option and Procedures" on page 33.

## PHYSICS

The Department of Physical and Earth Sciences offers supporting courses for the Master of Arts with a major in general studies. For students majoring in secondary education with a teaching field in general science, supporting courses are offered for the Master of Science in Education and the Educational Specialist degrees. A graduate program is not offered in physics.

## PHYSICS COURSE

## Prefix PHS

491G. Quantum Mechanics (3). An extension of the investigation of quantum mechanics begun in PHS 301 to include the full mathematical development of the theory. Basic tools including linear operators and matrices will be used to explore physical systems.
492G. Advanced Quantum Mechanics (3). A continuation of the investigation of quantum mechanics. Prerequisite: PHS 491G.
500. Physics for Teachers (3). Designed for teachers, this course will reinforce and extend basic concepts in physics covered in the Science Course of Study. (May be used in the general science teaching field with a major in secondary education.)

## POLITICAL SCIENCE

The Political Science Department offers the core courses and an area of concentration in political science within the Master of Public Administration degree program and supporting courses for the Master of Arts with a major in general studies. For students majoring in secondary education with a teaching field in social science, supporting courses are offered for the Master of Science in Education and the Educational Specialist degrees.

## POLITICAL SCIENCE COURSES

## Prefix PSC

402G. Introduction to Public Policy (3). A survey of the functions and major programs of the United States federal government including federal taxes and spending, the regulation of business, national labor policy, public health and welfare programs, conservation and the environment, and national defense and foreign policy.
412G. Intergovernmental Relations (3). Examines the development, institutions, processes, and problems of state and local government in the United States and their interaction with each other and with the federal government.
421G. American Diplomacy to 1900 (3). Chronological development of American foreign policy from the early period to present.
423G. Twentieth Century American Foreign Policy (3). Main streams of American foreign policy in the twentieth century; analytical development of American foreign policy processes; identification and development of various influences on foreign policy decision-making.
432G. International Relations (3). Background and basic principles of international politics with emphasis on the modern state system, nationalism, changes in international politics from World War II to the present, and domestic influences on foreign policy.
433G. Governments of Europe (3). Examines the political systems and political cultures of Europe with major emphasis on Great Britain, France, Germany, and Russia. Prerequisite: PSC 100.
435G. International Organizations (3). Examines regional and world intergovernmental organizations (IGO) with emphasis on the United Nations and including NATO, OAS, European Union and others. Included will be some coverage of nongovernmental organizations (NGO) such as multinational corporations. Prerequisite: PSC 432 or 432G.
443G. Constitutional Law I (3). Fundamental principles of U.S. Constitution and its development including powers of President and Congress, federalism, interstate commerce, and others; textbook and case method.
444G. Constitutional Law II (3). Relationship between individual and government as revealed through constitutional law cases; civil liberties based on interpretation of Bill of Rights and Fourteenth Amendment; textbook and case method.
445G. Southern Politics (3). Politics of 11 southern states with regard to voting, elections, origin and decline of one-party system in the South, role of the Republican party and minor parties, and impact of southern politics on national affairs.
447G. Politics and Public Opinion (3). Forces affecting politics, public opinion, and elections in the U.S.; examines the election structure, as well as individual and group political participation.
450G. The American Executive (3). Role and behavior of American executives at national, state, and local levels in the U.S. political system with emphasis on American presidency.
451G. Political Theory From the Ancients to 1700 (3). Examines political thought from ancient Greece to Europe's Early Modern Era. An emphasis is placed on the historical-cultural context in which these theories developed, their influence on modern concepts, and the recurring patterns affecting the rise and fall of human societies and how they relate to the present.
452G. Modern Political Theory (3). Examines the major trends in political thought from the Early Modern Era of the 1600's to the present with emphasis upon the development of classical (conservative) liberalism, progressive or new liberalism, socialism, Marxist communism, fascism, and national socialism.
454G. American Political Thought (3). Principal ideas of leading political thinkers in America from colonial period to the present.

463G. National Security Affairs (3). Examines theories and policies of national security with emphasis on United States defense policies. Emphasis is on the roles of executive, legislative, and nongovernmental actors. Topics include arms control, terrorism, military-civilian relations, manpower and weapons' acquisitions, strategic theory, and conflict resolution.
481G. Public Administration (3). Principles of public administration with emphasis on public finance, personnel management, and administrative law.
493G. The Judicial Process (3). Procedures involved in judicial process; attendance at actual court trials in the local area.
502. Research Methods in Public Administration (3). Social research methods and their application to public administration; examination of the role of social research in the analysis, interpretation and clarification of problems in public administration. (PSC 502 is cross-listed with CJ 502 and only one course may be counted for credit.)
521. Administrative Law (3). Legal principles and procedures involved in administration of government agencies.
531. Public Personnel Administration (3). Functions, procedures, and problems of personnel management at all levels of government.
532. Public Finance Administration (3). Collection, custody, and expenditure of public revenue, public borrowing and debt management, preparation and execution of the budget, and financial accountability for public spending.
545. Seminar in Public Administration (3). Theories, or models, of administrative organization and behavior and examination of relationship between public administration and political process.
555. Seminar in Comparative Public Administration (3). Comparison of approaches to and problems associated with public administration in different nation types: western/ nonwestern; developed/underdeveloped; large/small; and open/closed.
585, 586. Directed Studies in Public Administration (3) (3). In-dept study of selected topics. Prerequisites: Permission of the instructor and approval of the department head.
597, 598. Public Affairs Internship (3) (3). (Grade of Pass or Fail only) Supervised assignment in office of an area public agency for a minimum of eight hours per week. Prerequisites: Permission of the instructor and approval of the department head.
599. Thesis (3) (3). (Grade of Pass or Fail only) Prerequisite: Approval of Application for Thesis Option. See "Thesis Options and Procedures" on page 33.

## PSYCHOLOGY

The Psychology Department offers courses leading to the Master of Science with a major in applied psychology. Included in the curriculum is a broad range of theoretical, methodological, and applied courses. The major emphases of the program are clinical behavior analysis and general behavior analysis. Each student must choose either a concentration or non-concentration plan in accordance with personal and professional interests and goals. The department also offers supporting courses for the Master of Arts with a major in general studies. For students majoring in secondary education with a teaching field in social science, supporting courses are offered for the Master of Science in Education and the Educational Specialist degrees.

## ADMISSION REQUIREMENTS FOR THE MASTER OF SCIENCE WITH A MAJOR IN APPLIED PSYCHOLOGY

In addition to meeting the general entrance requirements of the College of Graduate Studies, applicants must have an undergraduate major in psychology or its equivalent, as determined by the Psychology Department advisor.

## MINIMUM REQUIREMENTS FOR THE DEGREE

Non-Thesis Option: Total of 45 semester hours. Minimum of 33 hours in approved psychology courses. Up to 12 hours may be taken in other disciplines approved by the Psychology Department advisor.

Thesis Option: Total of 45 semester hours. Restricted to students in the Concentration Plan. Minimum of 27 hours in approved psychology courses and six hours of thesis. Up to 12 hours may be taken in other disciplines approved by the Psychology Department advisor. See "Thesis Option and Procedures" on page 33.

Under either option, each student must complete core requirements during the first 18 semester hours at JSU with at least a "B" average in psychology courses before admission to advanced courses, PSY 550 and above. A "B" average in all graduate psychology work is required for degree completion.

## Core Requirements ( $\mathbf{1 2}$ semester hours)

Biological Bases (3 semester hours)
PSY 400G, 500, 501, 502
Quantitative Methods ( 3 semester hours)
PSY 510, 511, 512, 514
Foundations Courses ( 3 semester hours)
PSY 444G, 521, 522, 525, 528
Core Electives ( 3 semester hours)
PSY 415G, 424G, 425G, 433G, 531, 532, 533
Professional Issues ( $\mathbf{3}$ semester hours)
PSY 550

## Non-Concentration Plan (30 semester hours)

Psychology electives may be selected from psychology courses 400G-579. A maximum of 12 hours of electives may be selected from other disciplines with approval of the advisor.

## Concentration Plan (30 semester hours)

Concentration Requirements: A minimum of 12 additional hours of psychology electives, PSY 400G-579 and at least six hours from one of the following options. Six hours of clinical practicum are required for the clinical emphasis.

Practicum Options: (Maximum of nine semester hours. Note specific prerequisites
for each practicum and internship.)
Clinical Practicum: PSY 582, 583, 584
General Practicum: PSY 585, 586, 587
Instructional Practicum: PSY 570, 571
Independent Study Options: Independent Research and Readings (Maximum of nine semester hours)
PSY 592, 593, 594, 595
Thesis Option (Six semester hours)
PSY 599 (3) (3)
See "Thesis Option and Procedures" on page 33.
Hours may include a maximum of 12 hours of electives which may be selected from other disciplines with approval of the advisor. A minimum grade of " B " in each graduate psychology course is required to enter and to continue in this plan.

## Description of Concentration Options:

## Practicum Options:

Clinical Practicum: Students planning to work in mental health delivery positions or apply for the Licensed Psychological Technician license after graduation should plan course work to include the Clinical Practicum.

Students should consult with the clinical advisor to plan an academic program which includes specific graduate elective courses.

General Practicum: Students planning to work in applied areas such as behavior analysis, visitor behavior, program evaluation, developmental consultation, psychology laboratories, or apply for certification as a behavior analyst after graduation should plan course work to include the General Practicum. Students should consult their advisor to match interests with specific graduate elective courses.

Independent Study Options: Independent Research and Readings
Students interested in preparing for Ph.D. programs should enroll in the Independent Research/Readings courses. Topics for independent study should be consistent with areas of concentration. Prior to registering, students should obtain written approval from their advisor and their project supervisor.

## PSYCHOLOGY COURSES

## Prefix PSY

400G. Physiological Psychology (3). Physiological structures and mechanisms which mediate between environmental events and behavior.
415G. Cognitive Processes (3). Review of cognitive processes such as memory, concept formation, reasoning, critical thinking, problem solving, and applications of cognitive science; particular emphasis on how research in cognitive science can be applied to more effective critical thinking and how our built environment can be better designed to fit the way people think.
417G. Behavior Change in Children (3). Examines specific techniques for changing the behavior of children and youth in the home, in school, and other settings.
424G. Behavior Modification (3). Extension of behavior technology to clinical and educational settings; emphasis on contingency management and behavioral programming.
425G. Health Psychology (3). Use of psychological techniques within medical settings for problems such as hypertension, pain, asthma, eating disorders, and smoking.

427G. Criterion-Based Behavior (3). Study of rate, fluency, celeration, and component/composite relations with applications to single subject behavior change.
430G. Seminar in Current Problems (3) (3). Examines the relevant research and methodological problems related to topics of current emphasis in behavioral research; examples are: drug addiction, aggression and contingency management.
433G. Multicultural Psychology (3). Examines the diversity in North American society with a focus on analysis of culture, ethnicity, race, gender, disability and sexual orientation; includes integration with clinical and research issues.
444G. Conditioning and Learning (3). Review of research, investigating the basic parameters of conditioning and its theoretical implications; topics include operant and respondent conditioning.
455G. Environmental Psychology (3). Review of research literature dealing with environmental problems such as the design of the built environment and conservation of renewable and nonrenewable natural resources; completion of hands-on project on environmental design required.
500. Behavior Psychopharmacology (3). Behavioral effects of psychoactive drugs, neurochemical and behavioral mechanisms of drug dependency.
501. Neuropsychology (3). Brain behavior relationships with emphasis on behavioral and intellectual disorders that have a neurological origin.
502. Motivation (3). Research techniques, their findings, and applications to problems of motivation; topics from hunger and thirst to human incentive motivation.
510. Quantitative Methods (3). Advanced inferential statistics including hypothesis testing and analysis of variance and covariance; nonparametric measures, correlation, and regression.
511. Conceptual Foundations (3). Issues underlying acquisition of valid knowledge in psychology, including the design, implementation, and interpretation of research.
512. Psychometrics (3). Statistical bases and procedures for validity, reliability, and scaling; partial correlation, multiple correlation, and test construction.
514. Psychological Testing (3). Use of tests to measure psychological traits; how to administer and interpret intelligence, personality and other types of psychological tests; students will give and score some tests as part of the course requirement.
521. Behavioral Assessment (3). Basic skills needed for evaluation of individual differences; interviewing skills, mental status examination, behavioral assessment; self report and physiological measures; multicultural assessment issues emphasized.
522. Psychopathology (3). Empirical study of abnormal behavior and its cultural variations on the DSMIV; etiological models and epidemiological data included.
525. Issues in Lifespan Development (3). Study of psychological development throughout the entire lifespan; emphasis on theories and research in physiological, cognitive, personality, and social development.
528. Analysis of Behavior (3). Principles and terminology of behavior analysis with practice analyzing everyday behavior and application of the principles to solve behavior problems.
531. Systems of Psychotherapy (3). Overview of the therapeutic relationship with examination of major theories and their derived therapies; behavioral and cognitive behavioral techniques emphasized.
532. Methods of Behavior Change in Groups (3). The dynamics of group interaction and principles of group intervention; theories and techniques of group therapy are emphasized.
533. Psychological Interviewing (3). Communication theory, training of listening skills and behavioral interviewing; assignments will include a mock interview.
537. Organization Behavior Management (3). A review of theory and research in the application of basic principles of behavior in business and industrial settings to meet organizational objectives such as productivity, profitability, safety training, quality, etc.
550. Professional Issues (3). Ethical and legal issues in the practice of psychology and counseling.

Note: The core curriculum must be completed before the following courses may be taken.
562. Seminar in Learning (3). Current research in the area of learning with emphasis on development of a coherent perspective of the process of behavior change.
569. Seminar in Program Evaluation (3). Review of the philosophy, methodology, and theory of program evaluation; examples of program evaluation taken from a variety of settings including
mental health, medicine, formal and informal education, as well as business and industry; students will engage in problem solving exercises and brief report writing.
570, 571. Instructional Practicum (3) (3). Application of psychological principles in educational settings such as undergraduate courses; responsibilities could include lab assistantship tasks including mentoring of students, presentation of course work, organization of class materials, etc. under the supervision of a faculty member. Prerequisite: Consent of instructor.
575, 576, 577. Behavior Analysis Practicum (3) (3) (3). Practice of behavior analysis principles in applied settings such as treating developmental disabilities, or organizational improvement. Prerequisite: Consent of instructor.
582, 583, 584. Clinical Practicum (3)(3)(3). Supervised clinical assessment, report writing (both individual and group), ethical principles as well as the design and implementation of psychological treatment programs with a client population; a minimum of 120-150 on-site hours required for each course. Prerequisites: Four courses from the following: PSY 424G, 425G, 501, 512, 514, 521, 522, 531, 532 and permission of the Clinical Practicum Committee.
585, 586, 587. General Practicum (3) (3) (3). Implementation of psychological principles in selected areas of application/research, such as developmental disabilities, academic behaviors, language/communication problems, and environmental concerns. Prerequisite: Consent of instructor.
591, 592, 593. Individual Research (3) (3) (3). Students will conduct supervised research projects chosen in coordination with their supervisor. Prerequisite: Consent of instructor.
594, 595. Independent Readings (3) (3). Independent readings will normally include content not offered in regularly scheduled classes. Prerequisite: Consent of instructor.
599. Thesis (3) (3). (Grade of Pass or Fail only) Prerequisite: Approval of Application for Thesis Option. See "Thesis Options and Procedures" on page 33.

PUBLIC ADMINISTRATION

The Master of Public Administration (M.P.A.) is designed to meet the professional development needs of individuals employed by or planning a career in local, state, or federal government, or non-profit associations and organizations.

## ADMISSION REQUIREMENTS FOR THE MASTER OF PUBLIC ADMINISTRATION

Applicants who meet the general admission requirements to the College of Graduate Studies are eligible for admission to the M.P.A. program. A particular undergraduate major is not specified for admission to this program.

## MINIMUM REQUIREMENTS FOR THE DEGREE

A total of 36 semester hours is required. The student must complete 15 semester hours in required public administration courses and 15 semester hours in a concentration from one of the following fields: business administration and economics, criminal justice, education, emergency management, environmental science management, political science, or spatial analysis and management.

Required public administration courses: 15 semester hours

| PSC | 481 G | Public Administration (3) |
| :--- | :--- | :--- |
| PSC | 502 | Research Methods in Public Administration (3) |
| PSC | 531 | Public Personnel Administration (3) |
| PSC | 532 | Public Finance Administration (3) |
| and |  |  |
| PSC | 521 | Administrative Law (3) |
| or |  |  |
| PSC | 545 | Seminar in Public Administration (3) |

Note: If a student completed PSC 481, Public Administration, or equivalent at the undergraduate level, PSC 481G may not be repeated and the student will be required to take both PSC 521, Administrative Law, and PSC 545, Seminar in Public Administration.

Concentration in one of the following fields of study:
Business Administration: 15 semester hours by advisement
or
Criminal Justice: 15 semester hours by advisement
or
Education: 15 semester hours by advisement
or
Emergency Management: 15 required semester hours
or
Environmental Science Management: 15 required semester hours
or
Political Science: 15 semester hours by advisement
or
Spatial Analysis and Management: 15 required semester hours
The remaining six hours are electives in a field appropriate to the student's interest and career objectives. Students concentrating in business administration may not elect these six hours in business courses.

The course descriptions for the required public administration courses are provided below. For all other course descriptions, refer to the appropriate sections in this Bulletin, pages $60-62$ for business administration,
pages 69-70 for criminal justice, pages 141-150 for education, page152 for emergency management, page 156 for environmental science management, page 172 for political science and page 181 for spatial analysis and management.

## REQUIRED PUBLIC ADMINISTRATION COURSES

## Prefix PSC

481G. Public Administration (3). Principles of public administration with emphasis on public finance, personnel management, and administrative law.
502. Research Methods in Public Administration (3). Social research methods and their application to public administration; examination of the role of social research in the analysis, interpretation and clarification of problems in public administration. (PSC 502 is cross-listed with CJ 502 and only one course may be counted for credit.)
521. Administrative Law (3). Legal principles and procedures involved in administration of government agencies.
531. Public Personnel Administration (3). Functions, procedures, and problems of personnel management at all levels of government.
532. Public Finance Administration (3). Collection, custody, and expenditure of public revenue, public borrowing and debt management, preparation and execution of the budget, and financial accountability of public spending.
545. Seminar in Public Administration (3). Theories, or models, of administrative organization and behavior and examination of relationship between public administration and political process.

## SPATIAL ANALYSIS AND MANAGEMENT

The Master of Public Administration with a concentration in spatial analysis and management is designed for mid-career professionals who wish to develop expertise in spatial analysis or for those already employed as spatial analyst who need graduate work to meet their professional development needs. A graduate certificate in spatial analysis and management is also available for non-degree students who wish to specialize in the area of spatial analysis and management. Upon satisfactorily completing the requirements of a graduate certificate, an entry will be made on the student's transcript.

## ADMISSION REQUIREMENTS FOR THE MASTER OF PUBLIC ADMINISTRATION WITH A CONCENTRATION IN SPATIAL ANALYSIS AND MANAGEMENT

Applicants who meet general admission requirements to the College of Graduate Studies are eligible for admission to this degree program. A particular undergraduate major is not specified for admission to this program.

## MINIMUM REQUIREMENTS FOR THE DEGREE

A total of 36 semester hours is required. The student must complete 15 semester hours in required public administration courses and 15 semester hours in the spatial analysis and management concentration.

Required spatial analysis and management courses: 15 semester hours

```
SAM 510 Introduction to Spatial Analysis (3)
SAM 520 Spatial Data Collection and Management (3)
SAM 530 Analyzing Spatial Networks (3)
SAM 540 Site Location Analysis (3)
SAM 550 Organization and Management of Spatial Systems (3)
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The remaining six hours are electives by advisement in a field appropriate to the student's interests and career objectives.

The course descriptions for the spatial analysis and management courses are provided below.
For course descriptions of the required public administration courses, see Public Administration, page 179.

## ADMISSION REQUIREMENTS FOR A GRADUATE CERTIFICATE IN SPATIAL ANALYSIS AND MANAGEMENT

Applicants who meet general admission requirements to the College of Graduate Studies are eligible for admission to this certificate program. A particular undergraduate major is not specified.

## MINIMUM REQUIREMENTS FOR <br> A GRADUATE CERTIFICATE IN SPATIAL ANALYSIS AND MANAGEMENT

The student must complete the 15 semester hours of required spatial analysis and management concentration courses listed above. A student who completes the graduate certificate may apply the 15 hours of credit toward a Master of Public Administration degree. All course work for the MPA degree, including the spatial analysis and management concentration course work, must be completed within six years.

## Prefix SAM

510. Introduction to Spatial Analysis (3). An overview of geographic information systems and a foundation in georeferencing spatial data with coordinate systems, projecting these data to a flat map surface, and choosing an appropriate map scale. Scale and map projection transformations and coordinate system conversions will also be covered.
511. Spatial Data Collection and Management (3). Examination of methods of capturing data, acquiring and importing existing spatial data into geographic information systems, deriving spatial information from remotely sensed data and storing spatial data. Prerequisite: SAM 510.
512. Analyzing Spatial Networks (3). Examination of topology theory and its employment in GIS network analysis. Emphases on methods of determining efficient paths, modeling network flows and creating efficient service areas or organizational entities. Prerequisite: SAM 510.
513. Site Location Analysis (3). Emphasis on evaluating existing site location efficiencies, determining appropriate point site and area site locations for organizational entities, and analyzing environmental impact using GIS. Prerequisite: SAM 510.
514. Organization and Management of Spatial Systems (3). Fundamentals of GIS implementation and GIS management. Consideration in designing organization-wide GIS and the management of both special projects and organization-wide use of GIS. Prerequisite: SAM 510.
515. Spatial Data and Layout and Display (3). Fundamentals of map composition and layout, chart creation, data classification and map design to produce meaningful maps and charts of the results of spatial analysis. Prerequisite: SAM 510
516. Advanced Topics in Spatial Analysis (3) (3). Advanced GIS instruction and work in a variety of topics such as imagery interpretation and classification, surface modeling, spatial manipulation languages, and statistical analysis of spatial data. Can be taken twice for credit. Prerequisite: SAM 510.
517. Directed Research (3). (Grade of Pass or Fail only) Prerequisite: Permission of instructor and SAM 510.

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WILLIE SLATER. Assistant Football Coach
GREG STEWART Assistant Football Coach
MAXWELL THURMOND (RE) Assistant Football Coach
MATTHEW WANNABO Assistant Football Coach
JAMES HOBBS Head Golf CoachRifle Coach
LISA HOWE .Head Women's Soccer Coach
WENDY HOLLEMAN Assistant Women's Soccer Coach
JANA B. McGINNIS Head Women's Softball Coach
MARK WISENER Assistant Women's Softball Coach
STEVE BAILEY Head Tennis Coach
TIMOTHY MacTAGGERT ..... Assistant Tennis Coach
AIMEE DAWSON Head Track/Cross Country Coach
SCOTT FISTER ..... Assistant Track/Cross Country Coach
RICHARD NOLD ..... Head Women's Volleyball Coach
MELISSA STARCK .Assistant Women's Volleyball Coach
DATA SYSTEMS MANAGEMENT DIVISION
RANDY HARPER Executive Director, Data Systems Management Division VENITA TONEY Secretary to the Executive Director
ALAN McCURRY Manager, Systems Support
BETTY HIGGINSComputer Operator
ALLAN RIDGEWAY Senior Operations Supervisor
PATSY STROTHER Clerical Assistant
JACKIE THOMPSON Computer Operator
RUSSELL UESRY Supervisor of Operations
JOHN ROSIER Technology Analyst
SEAN PONDER Manager, Academic Computing and Network Support
THOMAS ALLRED Data Communication Network Specialist
STACY BONDS Secretary
DAVID COBB Microcomputer Consultant/Programmer
FRED COBLE Academic Computing Consultant/Programmer
NEIL JOHNSON Senior Communication Analyst
MARK MATTHEWS Data Communication Network Specialist
CHRIS NEWSOME World Wide Web Programmer
PAULA SMITH Senior Microcomputer Consultant/Programmer
JIMMY SURRETT Data Communication Network Specialist
DAPHANE UESRY Academic Computing Consultant/Programmer
MANUELA WOODRUFF Microcomputer Consultant/Programmer
ALAN WALLACE Manager, Applications Support
GENA CRONAN Programmer/Analyst
KRISTIN JOHNSON Programmer/Analyst
GREG NABORS Systems Analyst
MARILYN O'DONNELL Computer Programmer
LINDA PINSON ..... Programmer/Analyst
JAMES POE Data Communication Network SpecialistRANDALL TERRYComputer Programmer
EVIN THOMPSON Manager, University Telecommunications
MARY MacARGEL Switchboard Operator
PATRICIA L. OWENS Telephone Center Coordinator
ERIC CARTER Communication Equipment Technician
KEITH RILEY Supervisor Telecommunications Equipment Technician
ACADEMIC AND STUDENT AFFAIRS
REBECCA TURNER Vice President for Academic and Student AffairsSANDRA WALKERExecutive Secretary
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TO BE NAMED Coordinator, Academic Advisement
AUDREY SMELLEYSecretary
ALICE CUSIMANO Associate Vice President for Student Affairs Secretary
MARY CHEATWOOD
MARY CHEATWOOD

COLLEGE OF ARTS AND SCIENCES


## COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

WILLIAM T. FIELDING
LOUISE J. CLARK
KELLY ROBERTS
LaRUE GAMBLE
DEBRA CARMACK
LORI CARTER
Dean, College of Commerce and Business Administration Associate Dean, College of Commerce and Business Administration Secretary to the Dean Secretary to the Associate Dean Certification Advisor

MARY KLUG Clerical Assistant, Dean's Office
Secretary, Management/Marketing
PAM POPE Secretary, Finance, Economics and AccountingPAT SHADDIX ............................................... Director, Center for Economic Development andSmall Business Development Center
ROBBIE MEDDERS Associate Director, Small Business Development Center
DEBRA JONES Secretary to the Director
BENJAMIN BOOZER Account Executive
WILLARD J. BUTTERWORTH Coordinator, Center for Economic Development
STEPHEN KEITH LOWE Account Executive
TO BE NAMED ..... Clerical Assistant
DAVID MICHAEL SELF Research Analyst
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SHEILA ANNE WEBB Dean, College of Education and Professional Studies
CYNTHIA HARPER Associate Dean, College of Education and Professional Studies
CATHY ROSE Secretary to the Dean
CATHY G. BURROWS Secretary, Instructional Services Unit
BRENDA CLINE Teacher's Aid, Child Center
ROSEMARY HARPER Clerical Assistant, Dean's Office
PAM JUMPER Secretary, Curriculum and Instruction
KATHY MATTHEWS Secretary, Technology and Engineering
TABITHA MIZE.Secretary, Communication
DEANNA MURRAY Secretary, Educational Resources
MOLLY RAISANEN Secretary, Family and Consumer Sciences
DIANE RILEY Secretary, Health, Physical Education and Recreation
MIKE STEDHAMManager, Student Media
CARL M. ZENANKO Acting Director, Instructional Services Unit
TO BE NAMED Coordinator, Teaching/Learning Center
KELLY RYAN Director, Teacher Education Services
TORI GADDY Secretary to the Director
DEBORAH BEARDEN Certification Advisor
DANA LYLES Coordinator, Clinical Experiences
VICKI TRAMMELL Certification Advisor
TO BE NAMED Director, TV Services and Engineering
MIKE HATHCOCK Chief Maintenance Engineer
KEITH THOMAS. Coordinator, TV Production
TED WHITEAssistant Engineer
COLLEGE OF GRADUATE STUDIES AND CONTINUING EDUCATION
WILLIAM D. CARR Dean, College of Graduate Studies and Continuing Education
TO BE NAMED............ Associate Dean, College of Graduate Studies and Continuing Education
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SUSAN BEARD Certification Secretary
MADELINE TOWNLEY Secretary
LaRILDA VanSANDT Certification Secretary
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RHONDA NOAH Clerical Assistant
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VICKY BROWN Program Coordinator, In-Service Education Center
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PAM McGHEE Secretary
CHRISTY HAMILTON Reading Specialist
TOMMY MORGAN Assistant Director, Science-in-Motion ProjectREBECCA RAKESTRAW...............................Assistant Director, Technology-in-Motion Project
COLLEGE OF NURSING AND HEALTH SCIENCES
MARTHA LAVENDER Dean, College of Nursing and Health Sciences
LINDA FRAZIER Secretary to the Dean
JANICE K. BRIM. Secretary
PAT CONWAY Secretary
PAULA DAVIS Coordinator, Nursing Clinic
SUZANNE DONALDSON Secretary
RAINER HASPEL Instructional Media Specialist
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CHRISTIE SHELTON Clinical Assistant
PATRICIA TIPPETT Secretary, Nursing Clinic
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RALPH BURKE Director, JSU-Gadsden
CONNIE EDGE Associate Director, JSU-Gadsden
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LISA BEDFORD Clerical Assistant
TAMARA CHASTAIN Clerical Assistant
SANDRA FORD Clerical Assistant
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Admissions Counselor
TRACY PRATER. Admissions Counselor
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JANET WHITE
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TAWANA ROBERTS Clerical Assistant
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$\qquad$Director, Counseling and Career ServicesNORMA PENNY.Secretary to the DirectorFREDERICK MAYSCounselor
TODD PRATER .Coordinator, TestingLINDA SHELTON.Counselor
TO BE NAMED Coordinator, Part-Time Off-Campus Student Employment
DISABILITY SUPPORT SERVICES
DANIEL MILLER Director, Disability Support Services
CYNTHIA CAMP Disability SpecialistDEE JOHNSTONLead Interpreter

## DISTANCE EDUCATION



## HOUSTON COLE LIBRARY

WILLIAM J. HUBBARD ................................................................................University Librarian
PATSY FROST .............................................................. Secretary to the University Librarian
KAYE BATCHELOR ................................................................... Library Technical Assistant
WILLIAM BATCHELOR........................................................................ Circulation Assistant
ROBERT CAMPBELL ....................................................................... Audio Visual Technician
NOAH CLEVELAND .................................................................... Library Technical Assistant
ANGIE FINLEY ............................................................................. Library Technical Assistant
GERRY HARRIS .......................................................................................Circulation Assistant
CARY HILL .............................................................................................. Circulation Assistant
STEPHANIE JOHNSTON .........................................................................Circulation Assistant
SUSAN M. JONES ......................................................................... Library Technical Assistant
CATHY KLENTZ .....................................................................................Circulation Assistant
JANDA LEDBETTER................................................................... Library Technical Assistant
LINDA McCRELLES .................................................................... Library Technical Assistant
DANNY SANDERS ............................................................................ Audio Visual Technician
ANN SMAIL .................................................................................. Library Technical Assistant
DEBRA THOMPSON .................................................................................................. Secretary
KAREN VAN CLEAVE ............................................................................Circulation Assistant
DONALD WALTER................................................. Data Communication Network Specialist
TO BE NAMED ..................................................................................... Circulation Supervisor

## INTERNATIONAL HOUSE

JOHN KETTERER ...................................................Director, International House and Programs
PATRICIA LACKS ............................................................................Secretary to the Director
ENA AGUILAR . Social Director
DEBBIE RUSSELL
International Program Assistant

## LEARNING SERVICES

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COURTNEY PEPPERS
Secretary to the Director

## MULTICULTURAL SERVICES

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JUDETTA COWDEN ........................................................................Secretary to the Director
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MARK JONES Director, Recreational Sports
ERIC BRASHER Assistant Director, Recreational Sports
JENNIFER JOHNSTON Secretary to the Director
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STACEY CHARPING Clerical Assistant
KELLY OSTERBIND Records Supervisor
CARLA WILLINGHAM. Clerical Assistant
R.O.T.C.
LTC HERSCHEL N. MAY, JR .Professor Military Science
LINDA BRIGHT Military Personnel ClerkELLEN HARTSAWMilitary Personnel Clerk
SGT JOSEPH PYLAND Military Science Staff
SFC HAROLD L. YOUNG Military Science Staff
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TERRY CASEY Director, Student Activities
CARA DAWN BYFORD Assistant Director, Student Activities
DEBBIE TAYLOR Secretary to the Director
ROBERT HAYES ..... President, SGA
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NANCY EDGE-SCHMITZ. Director, Student Health Center
TWYLA HOBBS Secretary to the Director
ROBERT MILLS Registered Nurse
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SYNETTE GANDY Assistant Director, University Housing
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SHEILA NEWELL Secretary
TARA TURNMIRE Clerical Assistant
UNIVERSITY POLICENELSON COLEMANDirector, Public Safety
TERRANCE SCHNEIDER. Assistant Director, Public Safety
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BARBARA GADDY Clerical Assistant
ALAN COHEN. Police Sergeant
SHAWN GIDDY Police Sergeant
CARL PREUNINGER ..... Police Sergeant
SAMUEL FIOL Safety/Security Supervisor
MICHELE PAGE Safety/Security Officer
BUDDY SMITH. Safety/Security Officer
JAMES STRICKLAND. Safety-Security Officer
CORNELL BUFORD Police Officer
JASON CAMPBELL Police Officer
NEIL FETNER Police Officer
RICKEY GAITHER Police Officer
JERRY PERKINS. Police Officer
DONYALE RICHARD Police Officer
WILLIAM RITCHEE Police Officer
ROBERT SCHAFFER. Police Officer
BRANDON SINGLETONPolice Officer
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PATRICIA MILLER Executive Secretary
COMPTROLLER
ALLYSON BARKER Comptroller
BETSY PRITCHETT Secretary to the Comptroller
DANA BONDS Bookkeeper
ELIZABETH BONDS Clerical Assistant
REGINA GLASS Secretary
MIYO HAYNES Data Control Operator
DENISE HUNT Disbursements Manager
KEVIN McFRY Financial Systems Manager
ELLEN MERRIMAN Payroll Clerk
JOANNA MOORE Accounts Payable Clerk
JENNIFER PARNELL Restricted Funds AccountantTINA TRUSSELLHead Cashier
ALICE WUDARCZYK .Bursar
HUMAN RESOURCES
KAREN DAVIS Acting Director, Human Resources
KAREN DAVIS Assistant Director, Human Resources
CHERYL NORRED Secretary to the Director
SUSAN ADDERHOLD. Secretary
VICTORIA GLAZE Mail Clerk/Courier
BRAD HARRIS Mail Clerk/Courier
JUDY HARRISON Manager, Salary and Benefits
ROBIN SMYRE .Manager, Mail Center
ROBERT WRIGHT. Mail Clerk/Courier
LISA WILKERSON Mail Clerk/Courier
PHYSICAL PLANT
GEORGE LORD Director, Physical Plant
TO BE NAMED. Assistant Director, Physical Plant
ANN ACKER Secretary to the Director
O'DELL CHRISTOPHER. Supervisor, Maintenance
KAREN JOHNSON ..... Secretary
STEVEN JOHNSTON. Supervisor, Grounds
SHELIA KIKER Clerical Assistant
MILLER PARNELL Building Inspector
BILLY TRUSSELL Supervisor, Air Conditioning and Heating
DENNIS CHRISTOPHER Supervisor, Building Services
LARRY ABERNATHY Housekeeper Supervisor
CATHERINE BASS ..... Housekeeper Supervisor
BRENDA MEASLES Housekeeper Supervisor
BARBARA PHILLIPS Housekeeper Supervisor

JAMES STEWARD.
Housekeeper Supervisor
PURCHASING
PAM FINDLEY .Director, Purchasing
LINDA STEDHAM. Secretary to the Director
DON RICHARDSON Manager, Inventory
SPECIAL SERVICES
JOE WHITMORE Director, Special Services
JOY SUMMERS Secretary to the Director
LEE BURKE Maintenance Supervisor
RANDALL STEPHENS Bookstore Manager (Barnes \& Noble)
SCOTT WILLIAMS Food Service Manager (Sodexho Marriott)
INSTITUTIONAL ADVANCEMENT
JOE SERVISS Vice President for Institutional Advancement
Executive Secretary
CAROL WINSOR Word Processor
ALUMNI AFFAIRS
MARK JONES Acting Director, Alumni Affairs
NANCY TURNER Secretary to the Director
KACI BEATTY Alumni Field Representative/Admissions Counselor
DEVELOPMENT
TO BE NAMED. Director, Development
ANITA KRUTULIS Secretary to the Director
JOY BRINDLE Bookkeeper
SID DEERMAN Bookkeeper
INFORMATION SERVICES
AL HARRISDirector, Information Services
DIXIE DEERING Secretary to the Director
MARY B. SMITH Coordinator, Publications
STEVE LATHAM University Photographer
PRINT SHOP
CHARLES TORRUELLA .Director, Printing
JOHN McCLURKIN Offset Press Operator
KEITH SHEARS Offset Press Operator

## GRADUATE FACULTY LISTING 2002-2003

MEEHAN, WILLIAM A. (1977).<br>President<br>B.S. and M.S., Jacksonville State University<br>Ed.D., University of Alabama<br>TURNER, REBECCA O. (1981)<br>Professor of Social Work and<br>B.A. University of Montevallo Vice President for Academic and Student Affairs<br>M.S.W. and D.S.W., University of Alabama<br>ABERCROMBIE, JERALD D. (1970)<br>Professor of Mathematics<br>B.S., Jacksonville State College<br>M.S. and Ph.D., University of Alabama

ADAMS, ANGELA J. (2002 $\qquad$ Assistant Professor of Educational Resources
B.S., University of Alabama at Birmingham
M.S., University of Nevada at Las Vegas

Ph.D., University of Missouri-Columbia
AGUILAR, MARIO (1999) $\qquad$ Associate Professor of Computer Science and
B.S., Jacksonville State University

Psychology
M.A. and Ph.D., Boston University

AL-HAMDANI, SAFAA H. (1992) .............................................. Associate Professor of Biology
B.S., Baghdad University
M.S., Tuskegee Institute

Ph.D., Oklahoma State University
ALLEN, JAMES B., JR. (1981). $\qquad$ Associate Professor of Political Science
B.S. and M.S., University of Alabama
M.Ed., University of Alabama at Birmingham

Ph.D., University of Alabama
ARMSTRONG, STEPHEN W. (1982) $\qquad$ .Professor of Special Education
B.A., University of Central Florida
M.Ed. and Ph.D., University of Florida

BAUCOM, THOMAS F. (1978). $\qquad$ Professor of Geography
B.A., University of North Carolina
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Ph.D., University of Georgia
BEARD, LAWRENCE (1999). $\qquad$ .Assistant Professor of Special Education
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BENNETT, DORIS (1986)
.Professor of Economics
B.A., Randolph-Macon Womens College
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BENTON, COLE (1977)
Professor of Biology
B.S., Troy State University
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B.S., University of Massachusetts
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BIVENS, LESTER S. (2001)
Assistant Professor of Educational Resources
B.A., University of Kentucky
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BLAIR, BENJAMIN G. (1998)
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Professor and Eminent Scholar
B.A., Presbyterian College
in Political Science
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BROWN, SAMUEL B. (1983) $\qquad$ Professor of Music
B.M., Baylor University
M.M., West Texas State University
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CARR, WILLIAM D. (1982)...................................Professor of Education and Dean, College of
B.A., University of Oklahoma Graduate Studies and Continuing Education
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CARTER, ROBERT (2002). $\qquad$ Assistant Professor of Biology
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Professor of Nursing
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CHAO, CHI CHIN (1989)
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M.A., M.S., and Ph.D., Bowling Green State University

CLAEREN, WAYNE H. (1975) $\qquad$ Professor of Drama
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CLARK, LOUISE J. (1969) $\qquad$ Professor of Business Statistics and
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CLINE, GEORGE R. (1992) $\qquad$ Associate Professor of Biology
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## COURSE PREFIXES

| ACC | Accounting |
| :---: | :---: |
| AN | Anthropology |
| BY | Biology |
| CJ. | Criminal Justice |
| CS | Computer Science |
| CY | Chemistry |
| DR | Drama |
| EAD | Educational Administration |
| EC | Economics |
| ECE | Early Childhood Education |
| ECG | Counselor Education |
| EED | Elementary Education |
| EFD | Education Foundations |
| EH. | English |
| EIM. | Library Media |
| EM | Emergency Management |
| EPY | Educational Psychology |
| ESC. | Environmental Science Management |
| ESE | Secondary Education |
| FIN | Finance |
| GY | Geography |
| HY | History |
| MBY | Marine Biology |
| MED | Music Education |
| MGT | Management |
| MKT | Marketing |
| MS | Mathematics |
| MU | Music |
| NU | Nursing |
| PE | Physical Education |
| PHS. | Physics |
| PSC. | Political Science |
| PSY. | Psychology |
| RDG | Reading |
| SAM | Spatial Analysis and Management |
| SPE | Special Education |
| ST. | Statistics and Quantitative Methods |

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Editor: Carol Welch
Photographs: Steve Latham

## JACKSONVILLE STATE UNIVERSITY

Campus Map: http://www.jsu.edu/campus/


[^0]:    Education Credentials Evaluators, Inc.
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    (414) 289-3400

    International Education Research Foundation
    (formerly Credentials Evaluation Services)
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    Los Angeles, CA 90066
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[^1]:    ${ }^{\text {a }}$ Master of Science degree with a major in counselor education and a concentration in school counseling.
    b Master of Arts with a major in music and a concentration in music education.

