

College of  
Graduate Studies Bulletin  
2004-2005

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:  
Telephone number 404-679-4501)  
to award bachelor's, master's, and  
educational specialist degrees.

# JACKSONVILLE STATE UNIVERSITY

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Jacksonville, Alabama 36265-1602

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College of Graduate Studies

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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  
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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  
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Veterans 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. The *Graduate Bulletin* published on the JSU web site supersedes the printed *Graduate Bulletin*.

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 14-18 and specific program requirements are in the program descriptions listed on pages 69-262.

There are six different graduate degree titles as listed below:

- Master of Arts (MA)
- Master of Science (MS)
- Master of Science in Education (MS.Ed.)
- Master of Business Administration (MBA)
- Master of Public Administration (MPA)
- Educational Specialist (Ed.S.)

There are twenty-three graduate majors at the master's level as listed below:

- Biology (MS)
- Business Administration (MBA)
- Computer Systems and Software Design (MS)
- Counselor Education (MS)
- Criminal Justice (MS)
- Early Childhood Education (MS.Ed.)
- Early Childhood Special Education (MS.Ed.)
- Educational Administration (MS.Ed.)
- Elementary Education (MS.Ed.)
- Emergency Management (MS)
- English (MA)
- History (MA)
- Liberal Studies (MA)
- Library Media (MS.Ed.)
- Mathematics (MS)
- Music (MA)
- Nursing (MSN)
- Physical Education (MS.Ed.)
- Psychology (MS)
- Public Administration (MPA)
- Reading Specialist (MS.Ed.)
- Secondary Education (MS.Ed.)
- Special Education (MS.Ed.)

Some of the above majors have two or more concentrations.

Below is a listing by major of the concentrations:

- Business Administration (two concentrations)
  - Accounting
  - General Business

- Counselor Education (two concentrations)
  - Community Agency Counseling
  - School Counseling
- Music (two concentrations)
  - General Music
  - Music Education
- Public Administration (six concentrations)
  - Business Administration
  - Criminal Justice
  - Emergency Management
  - Environmental Science Management
  - Political Science
  - Spatial Analysis and Management
- Special Education (two concentrations)
  - Collaborative Teacher K-6
  - Collaborative Teacher 6-12

In the Secondary Education major at the master's level, there are six teaching fields which are listed below:

- Biology
- English Language Arts
- General Science
- History
- Mathematics
- Social Science

The Educational Specialist degree has two majors which are as follows:

- Education
- Educational Administration

The major in education at the Ed.S. level has the following concentrations:

- Community Agency Counseling
- Early Childhood Education
- Elementary Education
- Physical Education
- School Counseling
- Secondary Education
- Special Education

In the Ed.S. concentration of secondary education, there are six teaching fields which are the same as those listed above under the secondary major at the master's level.

There are four graduate certificate programs as follows:

- Emergency Management
- Environmental Science Management
- Nursing Education
- Spatial Analysis Management

In summary, JSU has six different graduate degree titles with twenty-three majors at the master's level and two majors at the Ed.S. level.

There are five majors with two to six concentrations. There are two majors at the Ed.S. level, and the major of education has seven concentrations. There are four graduate certificate programs.

There is a program of study sheet in the *Graduate Bulletin* for each major and concentration. These program of study sheets clearly outline the requirements and curriculum for each program.



**BOARD OF TRUSTEES**

THE HONORABLE BOB RILEY  
Governor of Alabama, President, ex officio

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NAME	CONGRESSIONAL DISTRICT
Jamie "Red" Etheredge	First
G. M. "Mack" Roberts	Second
Bobby N. Kennamer	Third
William Ronald Smith	Third
Jim Folsom, Jr.	Fourth
Robert E. "Bud" Cramer	Fifth
James R. Bennett	Sixth
Gladys Carlisle	Seventh
Randy Owen	At-large

Dr. Joseph B. Morton, 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 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 (1971-1981), Theron E. Montgomery (1981-1986), Harold J. McGee (1986-1999), and William A. Meehan (1999-present).

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 AND GOALS

## MISSION STATEMENT

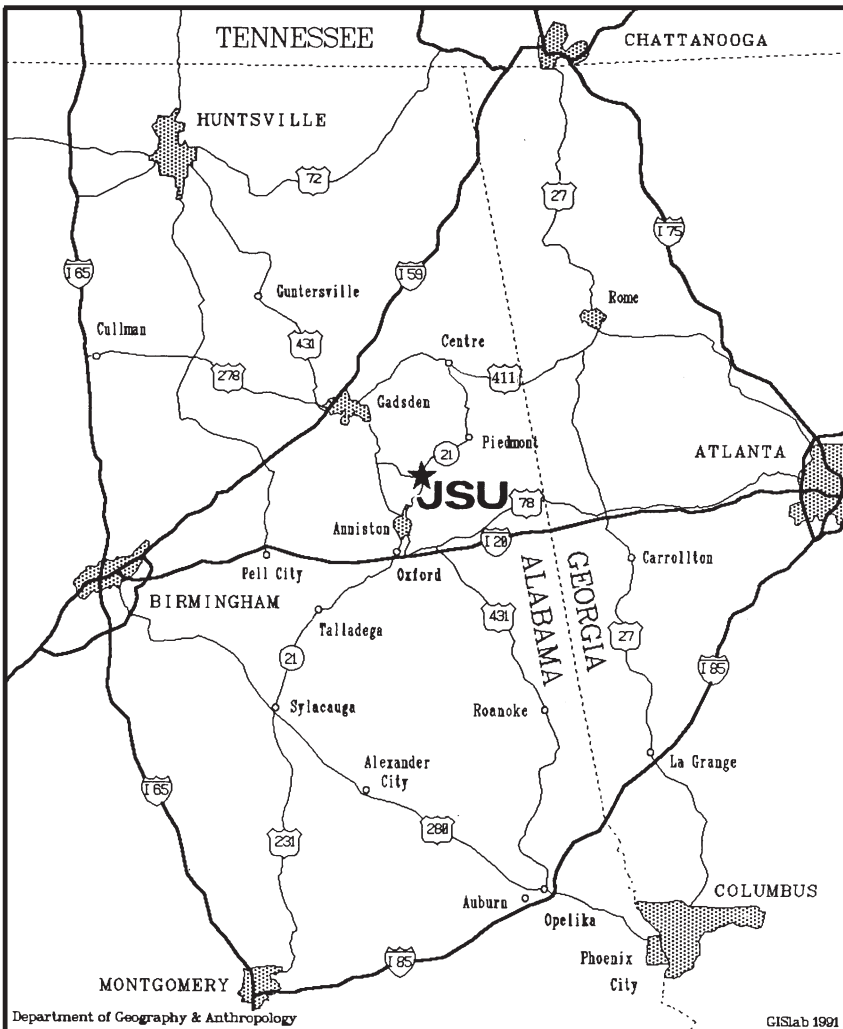
Jacksonville State University is a public, comprehensive teaching institution that provides educational, cultural, and social experiences for a diverse undergraduate and graduate student population. As a student-centered university, Jacksonville State University strives to balance academic challenges 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.

## GOALS

1. Educate students to be productive, responsible citizens and effective leaders in a rapidly changing global society.
2. Promote exemplary teaching and scholarship.
3. Enhance the roles of research and service.
4. Develop and maintain a student-body of sufficient size and with appropriate characteristics to constitute a robust learning community.
5. Increase the use of technology as a comprehensive teaching and learning tool.
6. Increase the efficiency and effectiveness of administrative processes and services.
7. Enhance and maintain sound financial planning that assures adequate fiscal resources for the University.

# 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 2004

Aug 17	Tue	Total balance due (100% of tuition and fees) for pre-registered students
Aug 30	Mon	Drop/add for those previously registered until 6:00 p.m.
Aug 31	Tue	Open registration and drop/add until 6:00 p.m. Orientation for new graduate students: - 2:00 p.m., 1103 B & C Library - 2:00 p.m., Room 211, Joe Ford Center, Gadsden - 4:00 p.m., 1103 B & C Library - 4:00 p.m., Room 211, Joe Ford Center, Gadsden - 6:00 p.m., 1103 B & C Library
Sep 1	Wed	Open registration and drop/add until 6:00 p.m. Orientation for new graduate students: - 2:00 p.m., 1103 B & C Library
Sep 2	Thu	Classes commence at 7:30 a.m.-late registration fee charged
Sep 6	Mon	Labor Day Holiday (no classes)
Sep 9	Thu	Last day for registration and addition of classes to schedule
Sep 16	Thu	Last day to withdraw from all classes and receive 80% tuition refund
Sep 20	Mon	Application for Degree/Comprehensive Examination for the 2004 Fall Semester due to Graduate Office
Sep 30	Thu	Last day to withdraw from all classes and receive 50% tuition refund
Oct 28	Thu	Mid-term grades due
Nov 1	Mon	Final Thesis Draft for 2004 Fall graduation due in Graduate Office for review
Nov 3-12	Wed-Fri	Pre-registration for 2005 Spring Semester
Nov 4	Thu	Last day to drop courses or withdraw from all classes without academic penalty
Nov 24	Wed	No classes
Nov 24-26	Wed-Fri	Thanksgiving Holiday (no classes)
Nov 29	Mon	Last day to withdraw from all classes or drop passing
Dec 7	Tue	Academic Preparation Day
Dec 7	Tue	Total balance due (100% tuition/fees) for students pre-registered for 2005 Spring Semester
Dec 8	Wed	Final Signed Thesis Copy for 2004 Fall graduation due in Graduate Office
Dec 8	Wed	ALL Comprehensive Examination Results from faculty due in Graduate Office by 4:30 p.m.
Dec 8-14	Wed-Tue	Fall Semester Exams
Dec 18	Sat	Commencement - 10:00 a.m. and 2:00 p.m.

AUGUST							SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4			1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
29	30	31	26	27	28	29	30	24	25	26	27	28	29	30	28	29	30	26	27	28	29	30	31	26	27	28	29	30	31					

**SPRING SEMESTER 2005**

Jan 5	Wed	Registration until 6:00 p.m. Orientation for new graduate students – 4:00 p.m., 1103 B & C Library
Jan 6	Thu	Registration until 6:00 p.m. Orientation for new graduate students – 2:00 p.m., 1103 B & C Library
Jan 7	Fri	Registration until 4:30 p.m. Orientation for new graduate students – 2:00 p.m., 1103 B & C Library
Jan 10	Mon	Classes begin 7:30 a.m. - late registration fee charged
Jan 17	Mon	Martin Luther King Day (no classes)
Jan 18	Tue	Last day for registration and addition of classes to schedule
Jan 25	Thu	Last day to withdraw from all classes and receive 80% tuition refund
Jan 28	Fri	Applications for Degree/Comprehensive Examination for 2005 Summer due to the Graduate Office
Feb 8	Thu	Last day to withdraw from all classes and receive 50% tuition refund
Feb 22	Tue	Mid-term grades due
Mar 2-11	Wed-Fri	Pre-registration for 2005 Summer terms and 2005 Fall Semester
Mar 3	Thu	Last day to drop courses or withdraw from all classes without academic penalty
Mar 7	Mon	Final Thesis Draft for 2005 Spring graduation due to Graduate Office for review
Mar 21-25	Mon-Fri	Spring Holidays (no classes)
Mar 26	Sat	Classes resume
Apr 5	Tue	Last day to withdraw from all classes or drop passing
Apr 19	Tue	Academic Preparation Day
Apr 20	Wed	Final Signed Thesis Copy for 2005 Spring graduation due in Graduate Office
Apr 20	Wed	ALL Comprehensive Examination Results from facul- ty due in Graduate Office by 4:30 p.m.
Apr 20-26	Wed-Tue	Spring Semester Examinations
Apr 29	Fri	Commencement 6:30 p.m.

**MAY TERM 2005**

May 2	Mon	Registration for those students not pre-registered Orientation for new graduate students - 2:00 p.m., 1103 B & C Library
May 3	Tue	Classes commence at 7:30 a.m. - late registration fee charged
May 4	Wed	Last day for registration and addition of courses to schedule
May 9	Mon	Last day to withdraw from all classes and receive 80% refund
May 12	Thu	Last day to drop courses without academic penalty
May 13	Tue	Applications for Degree/Comprehensive Examina- tion for 2005 Summer due to the Graduate Office
May 17	Tue	Last day to withdraw from all classes and receive 50% tuition refund
May 19	Thu	Last day to withdraw or drop passing
May 30	Mon	Memorial Day Holiday (no classes)
May 31	Tue	May Term Final Examinations

JANUARY							FEBRUARY							MARCH							APRIL							MAY							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
						1			1	2	3	4	5			1	2	3	4	5						1	2							1	2
2	3	4	5	6	7	8	6	7	8	9	10	11	12	6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14	
9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21	
16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28	
23	24	25	26	27	28	29	27	28	27	28	29	30	31	24	25	26	27	28	29	30	29	30	31	29	30	31									
30	31																																		

**SUMMER ONE TERM 2005**

May 31	Tue	Registration for those students not pre-registered Orientation for new graduate students - 2:00 p.m., 1103 B & C Library
Jun 1	Wed	Classes begin at 7:30 a.m. - late registration fee charged
Jun 2	Thu	Last day for registration and addition of courses to schedule
Jun 7	Tue	Last day to withdraw from all classes and receive 80% tuition refund
Jun 14	Tue	Last day to drop courses without academic penalty
Jun 15	Wed	Last day to withdraw from all classes and receive 50% tuition refund
Jun 21	Tue	Final Thesis Draft for 2005 summer graduation due to Graduate Office for review
Jun 21	Tue	Last day to withdraw from all classes or drop passing
Jun 28	Tue	Summer One Final Examinations

**SUMMER TWO TERM 2005**

Jun 28	Tue	Registration for those students not pre-registered Orientation for new graduate students - 2:00 p.m., 1103 B & C Library
Jun 29	Wed	Classes commence at 7:30 a.m. - late registration fee charged
Jun 30	Thu	Last day for registration and addition of courses to schedule
Jul 4	Mon	Independence Day Holiday (no classes)
Jul 6	Wed	Last day to withdraw from all classes and receive 80% tuition refund
Jul 14	Thu	Last day to drop courses without academic penalty
Jul 14	Thu	Last day to withdraw from all classes and receive 50% tuition refund
Jul 19	Tue	Last day to withdraw from all classes or drop passing
Jul 20	Wed	Final Signed Thesis Copy for 2005 Summer graduation due in Graduate Office
Jul 20	Wed	ALL Comprehensive Examination Results from faculty due in Graduate Office by 4:30 p.m.
Jul 26	Tue	Summer Two Final Examinations
Jul 29	Fri	Commencement - 7:30 p.m.

MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7			1	2	3	4					1	2			1	2	3	4	5	6	
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
29	30	31	26	27	28	29	30	24	25	26	27	28	29	30	28	29	30	31									

## 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. **The student will not be allowed to register or pre-register for subsequent semesters until all admission requirements have been completed and the student is admitted to graduate studies.** 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 instructions under the Graduate Admissions section on the JSU Home Page.

## UNCONDITIONAL ADMISSION FOR THE MASTER'S PROGRAM

Applicants must possess 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 or emergency management), and Master of Science in Education must meet one of the following formula requirements:**

450 times the undergraduate GPA plus the total score of verbal and quantitative sections of the General Test of the Graduate Record Examination (GRE) is equal to or greater than a total of 1600 points;

OR

15 times the undergraduate GPA plus the Miller Analogies Test (MAT) raw 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 with a major in emergency management must meet one of the following formula requirements:**

450 times the undergraduate grade-point average (GPA) plus the total score of the verbal and quantitative sections of the General Test of the GRE is equal to or greater than a total of 2250 points;

OR

15 times the undergraduate GPA plus the MAT raw 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 completion of the initial undergraduate degree plus the total score of the verbal and quantitative measures of the General Test of the GRE is equal to or greater than a total of 2250 points;

OR

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

**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 and quantitative sections of the General Test of the GRE is equal to or greater than a total of 2100 points;

OR

15 times the undergraduate GPA on the initial undergraduate degree plus the MAT raw 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 and quantitative sections of the General Test of the GRE is equal to or greater than a total of 2100 points;

OR

15 times the undergraduate GPA on the last 64 hours attempted toward the completion of the initial undergraduate degree plus the MAT raw 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 and quantitative sections of the General Test of the GRE is equal to or greater than a total of 2100 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 and quantitative sections of the General Test of the GRE is equal to or greater than a total of 2450 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 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**

Any applicant failing to meet the requirements for unconditional admission may be conditionally admitted with the recommendation of the graduate faculty in the applicant's major and approval of the Dean of the College of Graduate Studies. Applicants who are granted conditional admission must achieve a GPA of at least 3.0 on the first twelve graduate hours attempted within a twelve-month time frame. Failure to meet these conditions will result in the student being dropped from graduate studies.

### **ADMISSION FOR 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 clear and renewable 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 fifth-year 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. **The student will not be allowed to register or pre-register for subsequent semesters until all admission requirements have been completed and the student is admitted to graduate studies.** For additional information, see page 106 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.

#### CONDITIONAL ADMISSION FOR THE EDUCATIONAL SPECIALIST PROGRAM

Any applicant failing to meet the GPA requirement for unconditional admission may be conditionally admitted with the recommendation of the graduate faculty in the applicant’s major and approval of the Dean of the College of Graduate Studies. Applicants who are granted conditional admission must achieve a GPA of at least 3.25 on the first twelve graduate hours attempted within a twelve-month time frame. Failure to meet these conditions will result in the student being dropped from graduate studies.

#### 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. There is no charge for updating an “Application for Admission” form. 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. The *Graduate Bulletin* published on the JSU web site supersedes the printed *Graduate Bulletin*.

## ADMISSION 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 specialists 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.) **Students seeking Alternative Fifth-Year teacher certification must submit two official transcripts from all postsecondary institutions attended.** For additional information on this program, see page 158 of this *Bulletin*.
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 a GRE score or an MAT raw score. (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: 866-473-4373 (Princeton, NJ)  
609-771-7670 (outside U.S. and Canada)  
[www.gre.org](http://www.gre.org)

Graduate Management Admission Test  
Educational Testing Service  
P.O. Box 6103  
Princeton, NJ 08541-6103  
Telephone: 609-771-7330  
[www.mba.com](http://www.mba.com)

Miller Analogies Test  
The Psychological Corporation  
19500 Bulverde Road  
San Antonio, TX 78259  
Telephone: 1-800-622-3231  
[scoring\\_services@harcourt.com](mailto:scoring_services@harcourt.com)

5. Copies of **all clear and renewable teaching certificates** held by 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 the 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 and quantitative measures of the General Test of the GRE equal to or greater than 900 points or an MAT raw 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 83. Students applying for admission to the M.S. with a major in computer systems and software design program must meet unconditional admission requirements, page 94. Students applying for admission to the Master of Science in Nursing (M.S.N.) must meet unconditional admission requirements, page 240. Students applying for admission to the Master of Science with a major in emergency management must meet unconditional admission requirements, page 203.
6. Three “Graduate Reference Forms” completed by individuals who can provide qualitative assessment of the 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/department/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 Dean of the College of Graduate Studies will make the final decision regarding a student’s application for admission to graduate studies at JSU.

#### **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 U.S. \$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 by course evaluation) prepared by an evaluator acceptable to Jacksonville State University. A list of these evaluators is included in the section on International Student Applicants, page 23.
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 located outside the United States must earn a total score on the verbal and quantitative sections of the General Test of the GRE equal to or greater than 900 points or an MAT raw 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 83. 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 94. Students applying for admission to the Master of Science with a major in emergency management must meet the unconditional admission requirements, page 240. Students applying for admission to the Master of Science in Nursing (M.S.N.) program must meet unconditional admission requirements, page 203.
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. All international students must meet the requirements for unconditional admission. 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 by course evaluation) prepared by an evaluator acceptable to the University. Following is a list of those evaluators:

Education Credentials Evaluators, Inc.

P.O. Box 514070  
Milwaukee, WI 53203-3470  
(414) 289-3400  
[info@ece.org](mailto:info@ece.org)

International Education Research Foundation

P. O. Box 3665  
Culver City, CA 90231-3665  
(310) 258-9451  
[www.ierf.org](http://www.ierf.org)

International Consultants of Delaware, Inc.

625 Barksdale Road, Suite 109  
Newark, DE 19711-3258  
(302) 737-8715  
[www.icdel.com](http://www.icdel.com)

International Education Evaluation, Inc.

363 Ridgewood Avenue  
Charlotte, NC 28209

International Evaluation Service

P. O. Box 20348  
Long Beach, CA 90801

World Education ServicesMain Office

World Education Services

P.O. Box 5087

Bowling Green Station

New York, NY 10274-5087

Tel: 212-966-6311

Fax: 212-966-6395

www.wes.orgMidwest Office

Tel: 312-222-0882

Fax: 312-222-1217

Southeast Office

Tel: 305-358-6688

Fax: 305-358-4411

West Coast Office

Tel: 415-677-9378

Fax: 415-677-9333

Washington, D.C. Office

Tel: 202-331-2925

Fax: 202-331-2927

(Students who have previously attended JSU do not need to request a transcript from the University. The College of Graduate Studies will automatically receive the JSU transcript once a student has filed an application for admission to 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 and quantitative sections of the



General Test of the GRE equal to or greater than 900 points or an MAT raw 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 83. Students applying for admission to the M.S. program with a major in computer systems and software design program must submit GRE or GMAT scores and meet unconditional admission requirements, page 94. Students applying for admission to the M.S.N. program must submit GRE scores or an MAT raw score and meet unconditional admission requirements, page 240. Students applying for admission to the M.S. program with a major in emergency management must submit GRE scores or an MAT raw score and meet unconditional admission requirements, page 203.

6. Three “Graduate Reference Forms” completed by individuals who can provide qualitative assessment of the 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 office of International Programs, 256-782-5674, at JSU.

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 current clear and renewable** 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 regionally accredited institution in the United States.

#### **APPLICANTS FOR A GRADUATE CERTIFICATE IN EMERGENCY MANAGEMENT, ENVIRONMENTAL SCIENCE MANAGEMENT, OR SPATIAL ANALYSIS AND MANAGEMENT**

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 graduate application.
2. Non-refundable \$20.00 application processing fee
3. Official transcript from the postsecondary institution awarding the bachelor’s degree. (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 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.

## **APPLICANTS FOR A GRADUATE CERTIFICATE IN NURSING EDUCATION**

Applicants for the Graduate Certificate in Nursing Education must submit the following:

1. Completed JSU graduation 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 transcripts from the postsecondary institution awarding the bachelor's degree. (Students who have previously attended JSU do not need to request a transcript from the University. The College of Graduate Studies will automatically receive the JSU transcript once a student has filed an application for admission to graduate studies.)
5. Three "Graduate Reference Forms" completed by individuals who can provide qualitative assessment of the 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.
7. A current RN license.

### **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 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.

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

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

1. Completed "Graduate Application for Admission"
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. All students who have been granted accelerated senior privilege must register for course work in the College of Graduate Studies
2. The student may take no more than six semester hours of graduate level courses prior to the completion of all undergraduate degree requirements
3. 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
4. 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
5. The student must provide official test scores of the appropriate test (GRE, MAT or GMAT) prior to the end of the semester of accelerated senior privilege enrollment; and
6. The student must provide three "Graduate Reference Forms" prior to the end of the semester of accelerated senior privilege enrollment. These forms must be 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. Applicants who have submitted an application for accelerated senior privilege may be permitted to enroll for one semester of graduate course work while completing all other general application procedure requirements.

Accelerated senior privilege will also be extended to graduating seniors at other colleges and universities, provided all conditions specified above 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, veterans 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 should be made to the Office of Admissions; (2) student records should be made to the University Registrar (3) financial records should be made to the Vice President of Business Affairs; (4) financial aid records should be made to the Director of Financial Aid; (5) placement, counseling, disciplinary, health and security records should be made to the Associate Vice President for Student Affairs; (6) school and departmental records should be made to the Dean of the appropriate school; (7) 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 stu-



dent 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 insti-

tution 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/Discover/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**

On June 25, 2004, Jacksonville State University changed the primary means of identification for our students. On this day, the university established a new nine-digit random number that will be assigned to every student. All students will be re-carded at no cost. New ID cards are issued by the ID office located in the Theron Montgomery Building.

### **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

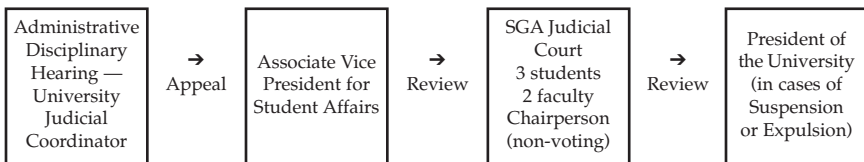
been violated. In turn, the University recognizes the need to insure that students have the right to due process and fair and equitable procedures in the event they are charged with a violation of University policies.

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:



**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;
6. 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

**Purpose**

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

**General Policy and Definitions**

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

- Submission to the conduct is made a condition of employment or admission of an applicant:
- Submission to or rejection of the conduct is made the basis for a personnel action (e.g., performance appraisal, recommendation for retention, salary increases, promotion, tenure or grades);
- The conduct has the purpose or effect of unreasonably interfering with the individual's work performance or of creating an intimidating, hostile, or offensive working or studying environment.

Such behavior may violate federal law and/or give rise to personal liability for the results of such behavior.

### **Procedures for Initiating a Complaint of Sexual Harassment**

The University cannot address sexual harassment unless it has been made aware of the harassment. If an employee feels that she or he has been subjected to sexual harassment, or has witnessed any form of sexual harassment, the employee may proceed with the complaint to his or her immediate supervisor or may address the complaint directly to the Office of Human Resources. The University strongly encourages the timely filing of any complaints of sexual harassment. EEOC guidelines generally suggest the filing of such claim within six (6) months of the alleged occurrence. Filing a contemporaneous complaint assists the University in conducting an investigation that is thorough and fair to all parties.

To review the full policy on sexual harassment which will provide detailed information on the investigation of complaints, due process, penalties for sexual harassment, and related topics, please see policy no. 1:02:05 in the university policy manual.

Students should follow the complaint procedures 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 the educational specialist degree, master's degree, add-on teacher certification, alternative fifth-year program, or graduate certificate 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

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 12 months. It is the student's responsibility to contact the instructor and complete the required course work within the specified time period. 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 (except Educational Administration which requires a 3.25 GPA), 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 any educational specialist, master's 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 will receive notification of the requirements to reestablish good standing. Any student who does not attain good standing, as specified in their notification letter, will be dropped from graduate study. 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.

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 400G level for graduate credit. Graduate courses numbered 400G and 500 are limited to students who hold a bachelor's degree. Accelerated senior privilege is offered for graduate courses in the College of Arts and Sciences. Please see the section titled Accelerated Senior Privilege in this *Bulletin*. 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 400G 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 beginning 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 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 42.

### **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*. Proce-

dures 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

All graduate work toward a master's degree, an Ed.S. degree or a graduate certificate (including credit transferred from another graduate program) must be completed within a period of six calendar years which would include the summer term. Any requests for an exception to this rule must be made to the dean of the College of Graduate Studies.

### 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 Veterans 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.

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, or online at <http://www.jsu.edu/depart/graduate/forms/htm>.

Only three hours of thesis course work may be taken in a semester. Students who choose the Thesis Option should refer to the *Thesis Guide* to become acquainted with the guidelines and deadlines for submission of thesis copies. The deadline dates are also listed for each semester in the University Calendar of this *Bulletin*. 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, add-on teacher certification, and alternative fifth-year programs. 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 date, time and location of the examination by the chairman of the Comprehensive Examination Committee. 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 COMPREHENSIVE EXAM/DEGREE

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 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, Multicultural Services, and Orientation, Advisement Services; and Learning Assisting, comprised of Learning Services and Tutoring 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.

### **JSU CHILD DEVELOPMENT CENTER AT MCCLELLAN**

The JSU Child Development Center is offered through the College of Education and Professional Studies and is located off campus at McClellan.

lan. It is a full time child care facility that provides quality child care for children of JSU faculty, staff, students and children living in and around the surrounding area. Applications are accepted for children ages six-weeks old through age twelve as positions become available. The hours of operation are Monday through Friday, 7:00 A.M. until 6:00 P.M. The Center acts as an extended learning environment for JSU students pursuing degrees in Education and other fields of study.

### **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 are also available from Academic Computing and Network Support 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 sub-

stantially 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 has 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 LEARNING

Jacksonville State University strives to meet the needs of all students. Distance learning 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 university environment. With alternative media such as videoconferencing and online courses, students from all walks of life can participate in the University environment while continuing with busy work and personal schedules. The greater flexibility in scheduling provided by distance learning 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 learning provides an outstanding level of education to every student.

### **Online**

In meeting the needs of the 21st century, Jacksonville State University is committed to offering courses for online distribution. A growing number of graduate and undergraduate courses, as well as full degree programs, are being offered through online courses. Convenient to students who need increased time or travel flexibility, online courses save time and travel expenses. Major examinations may be administered on campus or at a distance. Students unable to attend on campus for examinations requiring a proctor should review the following website for more information on proctoring specifications: <http://distance.jsu.edu/DLProctoring.htm>. Students communicate with their instructor and classmates through e-mail, threaded asynchronous discussions, and live chats.

### **Videoconferencing**

Jacksonville State 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 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.

### **Video-Based Courses**

Courses are also offered through a combination of videocassette and limited on-campus class meetings. Video-Based courses may combine video cassettes 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 Office 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://distance.jsu.edu>.

## STUDENT HEALTH CENTER

The Williams Student Health Center is a primary health care facility providing outpatient medical services as well as promoting preventive health measures to currently enrolled students who have a validated ID card. Patients are seen by appointment, with the exception of emergencies. 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 physicians dispensing. There is no charge for consultation with the nurses or the physician; however, there are minimal charges for lab procedures and medication and they are charged to the student's account.

The Student Health Center is located between Sparkman Hall and Mason Hall. Office hours are open Monday through Friday, 8:00 a.m. - 4:30 p.m. A physician is available to see patients Mondays and Wednesdays, 1:30 - 5:30 p.m. and Fridays, 8:00 a.m. - 12:00 noon during the Fall and Spring Semesters. During May Term, Summer I and Summer II, the physician is available on Mondays, Wednesdays, and Fridays, 8:00 - 10:00 a.m. A gynecologist is available Fall and Spring Semesters and May Term on Thursdays, 12:30 - 4:30 p.m. 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 275 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 six 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 or JSU website at [www.jsu.edu](http://www.jsu.edu).

### STUDENT ID CARDS

On June 25, 2004, Jacksonville State University changed the primary means of identification for our students. On this day, the university established a new nine-digit random number that will be assigned to every student. All students will be re-carded at no cost. New ID cards are issued by the ID Office located in the Theron Montgomery Building.

### 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 K-12. The ISU offers teachers-in-training an opportunity to gain practicum experience through the T/LC in-house 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 Office of Student Life 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 depen-

dents are eligible to enroll in this insurance plan. For further information, contact the Office of Student Life, 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, 405 Korner Street, Gadsden, Alabama 35901, or visit the of-

office in Room 113, Joe M. Ford Center, on the campus of Gadsden State Community College.

### **LIBRARY**

The Houston Cole Library, named for JSU's seventh president, is the academic hub of the campus, providing 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 more than 650,000 cataloged volumes. Subscriptions include 1,352 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 U.S. government documents and holds 34,418 audio-visual units, 1,370,744 microform units, and 1,890 maps. The Library also features an Alabamiana collection. Course reserves are digitized to provide web access. Universal borrowing agreements and inter-library loan services provide 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. A smart classroom used exclusively for instructional purposes is located on the ground floor.

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. 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 required 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 and JSU "Grow Your Own" Scholars Program at the University. Both Scholars Programs address 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 4th 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.

#### **The Federal Stafford Loan Program**

JSU participates in the Federal Stafford Loan Program. Interest rates for the Federal Stafford Loan Program are variable with a cap of 8.25%. Interest is determined quarterly by adding 1.7% to the 91 day Treasury Bill rate during enrollment and 2.3% during repayment. Repayment begins six months after the student's enrollment drops below half-time status (6 credit hours).

There are two types of Federal Stafford Student Loans: subsidized and unsubsidized.

**Federal Stafford Subsidized Student Loan**

A subsidized loan is a need-based loan. Borrowers who receive this type of loan are not required to pay the interest while he/she is enrolled at least half-time until repayment begins.

**Federal Stafford Unsubsidized Student Loan**

An unsubsidized loan is a non-need based program. Borrowers who receive this loan must either pay the interest while enrolled or have the interest capitalized for repayment later.

To apply for a subsidized or unsubsidized loan, submit a FAFSA as soon as possible after January 1, along with a JSU Financial Aid Data Sheet. The preference deadline to apply is March 15. The Financial Aid Office will notify applicants of their eligibility.

**SCHOLARSHIPS**

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 October from the Financial Aid Office.

Since scholarships are based on academic achievement, no need analysis is required.

The absolute deadline to apply for academic scholarships is February 1.

**Technology Scholarship Program for Alabama Teachers (TSPAT)**

Only full-time, certified teachers in public schools in Alabama are eligible to apply for this assistance. This program pays graduate tuition for three computer technology training courses. The purpose of the TSPAT assistance 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. Funding for this program is contingent upon state appropriations.

**Alabama National Guard Educational Assistance Program**

The State of Alabama provides assistance to cover tuition and book expenses for persons who are members of the Alabama National Guard. Selection of recipients is made by the Alabama Commission on Higher Education. Those interested in applying should contact their National Guard unit commander for the necessary application.

## 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) for their program of study. Refer to your program of study located in this *Bulletin*.

#### 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 a cumulative total of 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).

## STUDENT FINANCIAL AID APPEAL PROCESS

A student seeking re-establishment of eligibility and reinstatement of financial aid must submit a written request. A student may appeal the application of any part or all of this policy by writing to: Financial Aid Appeals Committee, JSU Office of Student Financial Aid, 700 Pelham Road North, Jacksonville, Alabama 36265.

This written appeal must include the student's name, social security number, the facts upon which the appeal is based, and any supporting documentation that can be obtained from a third party.

### **AWARDING, ACCEPTANCE AND PAYMENT OF FINANCIAL AID**

Students who are determined to be eligible for Federal Stafford Loans and Federal Work Study will receive an Offer of Financial Aid and other documents which must be completed and returned to the Financial Aid Office, within fourteen days. This assistance and scholarships awarded by the University, is credited to the student's account and a check is issued to the student's post office box for the balance, if applicable, on the third day of classes.

Students may use their accepted Offer of Financial Aid to confirm classes and/or university housing costs if their assistance has been processed by the required payment dates. Awarded financial aid appears on each student's bill sent by the Bursar's Office. More detailed information on paying confirmation costs is located in the Class Schedule.

### **CANCELLATION OF FINANCIAL AID**

Students scheduled to receive financial aid who do not plan to attend a term for which they have pre-registered must notify both the Financial Aid and Registrar's Offices prior to the first day of classes to cancel their preregistration and financial aid. **STUDENTS WHO FAIL TO DO THIS WILL BE ENROLLED IN CLASSES AND RECEIVE ACADEMIC AND FINANCIAL PENALTY FOR NOT ATTENDING CLASSES.**

### **VETERANS BENEFITS**

The Alabama Department of Veterans Affairs offers financial assistance to eligible dependents of disabled veterans who were permanent civilian residents of Alabama prior to entry into military service. This assistance provides tuition, fees, books, and supplies. For more information, contact the Veterans Affairs Office in your county. Military veterans may be eligible for assistance through a variety of programs. The Office of Veterans Affairs is located on the first floor of Bibb Graves Hall, Room 101, to assist students.

### **VOCATIONAL REHABILITATION**

Students who have disabilities may be eligible for a special assistance program through the Alabama Department of Rehabilitation Services (ADRS). Information can be obtained from the ADRS State Office, 2127 East South Blvd., Montgomery, AL 36116, (334/288-0220). A local ADRS counselor visits the JSU campus each week. Disability Support Services

(DSS) can provide information on arranging an appointment. DSS is located on the 3rd 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 remission for the fall and spring semesters and a total of six semester hours of graduate tuition remission 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. 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](http://www.jsu.edu/depart/ace/ccs/index/html).

## 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.

## 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 Bulletin*, *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.

## FINANCIAL FEES AND POLICIES

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	\$ 202.00 - per hour
10-12 hours	\$ 2,020.00
More than 12 hours	\$ 202.00 - additional per hour

#### OUT-OF-STATE

Less than 10 hours	\$ 404.00 - per hour
10-12 hours	\$ 4040.00
More than 12 hours	\$ 404.00 - 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) .....	\$ 20.00
Audit - per semester hour (if not enrolled in three or more semester hours) .....	\$ 25.00
Change in course schedule (add/drop) .....	\$ 15.00
- per processing	
Degree fee (non-refundable) .....	\$ 20.00
Graduate/undergraduate-charged each time a student applies to graduate.	
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 8 weeks minimum prior to graduation); the exact date for each semester will be posted in the University Bookstore. Costs will vary based on degree.	
ID Card fee – per student .....	\$ 10.00
ID Card replacement fee – per processing .....	\$ 15.00
Late registration .....	\$ 30.00
Mail-at-Home fee .....	\$ 10.00
Motor vehicle registration – each .....	\$ 25.00
Pre-School Center Program	
Fall or Spring Semester - per child .....	\$250.00
May Term - per child .....	\$ 80.00
Residence Hall deposit - each student .....	\$100.00
Returned check each .....	.current maximum allowed by law
Teaching Certificate fee – each .....	\$ 20.00
Transcript of academic record – per transcript .....	\$ 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, Discover, 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 the maximum allowed by law 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 lease agreement. This lease agreement, along with the "Guide to Residence 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 and also on the web site at [www.jsu.edu/depart/rlmn](http://www.jsu.edu/depart/rlmn).

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 (including cable costs) and apartments are as follows:

### Residence Halls

<b>Women</b>	<b>Double</b>	<b>Private</b>
Sparkman Hall	\$ 850.00/semester	\$1,275.00 per semester
Fitzpatrick Hall	\$ 800.00/semester	\$1,200.00 per semester
<b>Men</b>	<b>Double</b>	<b>Private</b>
Crow Hall	\$ 800.00/semester	\$1,200.00 per semester
Daugette Hall	\$ 700.00/semester	\$1,050.00 per semester
<b>Coed</b>	<b>Double</b>	<b>Private</b>
Logan Hall	\$1,000.00/semester	\$1,500.00 per semester
Patterson Hall	\$1,000.00/semester	\$1,500.00 per semester
Dixon Hall (Southerners)	\$ 800.00/semester	\$1,200.00 per semester

### Apartments

<b>Campus Inn</b>		
Efficiency – Furnished		\$ 900.00 per semester
1 Bedroom – Furnished		\$1,100.00 per semester
<b>College</b>		
1 Bedroom – Furnished		\$1,200.00 per semester
<b>Penn House</b>		
1 Bedroom – Furnished		\$1,100.00 per semester
<b>Pannell</b> (Rates include electrical service)		
Efficiency – Furnished		\$1,200.00 per semester
<b>JAX</b> (Married students and single parent students)		
1 bedroom – Unfurnished		\$1,100.00 per semester
2 bedroom – Unfurnished		\$1,300.00 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 liberal 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 liberal 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, 445G, 450G, 451G, 473G, 477G,  
479G  
MBY 464G
- b. 2 courses from the Organismal, Ecological, and Evolutionary area:  
BY 402G, 406G, 407G, 422G, 432G, 438G, 439G, 440G, 452G, 455G,  
458G, 460G, 475G, 476G  
MBY 412G, 415G, 423G, 460G, 461G, 462G, 486G, 487G

- c. 2 500 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, 445G, 450G, 451G, 473G, 477G, 479G  
MBY 464G
- b. 1 course from the Organismal, Ecological, and Evolutionary area:  
BY 402G, 405G, 406G, 407G, 422G, 432G, 438G, 439G, 440G, 452G, 455G, 458G, 460G, 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 46.

The remaining hours will be electives in biology

## BIOLOGY COURSES

### Prefix BY

- 402G. Medical Microbiology (4). Prerequisite: BY 323 or 283 and permission of the instructor. 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.

- 403G. Immunology (4).** Prerequisite: BY 373; BY 323 recommended. 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.
- 405G. Animal Behavior (3).** Prerequisite: BY 332. Genetic and anatomical bases of behavior; impact of behavior on the ecology of animals emphasized; lecture, discussion, demonstration and library studies.
- 406G. Ornithology (4).** Prerequisite: BY 332. History, classification, anatomy, physiology, ecology, and distribution of birds; laboratory emphasis on field identification and ecology; lecture, laboratory, and field studies.
- 407G. Mammalogy (4).** Prerequisite: BY 332. Aspects of the biology, ecology, taxonomy, and distribution of southeastern mammals; lecture, laboratory, and field studies.
- 412G. Plant Reproduction and Development (4).** Prerequisites: BY 322, 373; CY 105, 106, 107, 108 recommended. Study of structural and functional aspects of reproductive and developmental phenomena in vascular plants; lecture and laboratory.
- 413G. Animal Reproduction and Development (4).** Prerequisites: BY 322, 373; CY 105, 106, 107, 108 recommended. 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.
- 415G. Biometrics (3).** Prerequisites: BY 322, 332, or 373 and MS 204. An introduction into statistics for biology majors. This course will introduce students to appropriate statistics for analyzing biological data including how to select random samples, use basic statistical packages, post-hoc statistical testing and the use of linear regression and will use real-world examples of statistics in ecological, toxicological, and physiological research; lecture and laboratory.
- 422G. Biology of Cryptograms (4).** Prerequisites: BY 332, 373. The study of blue-green algae, algae, slime molds, bryophytes, and lichens; lecture, laboratory, field, and library study. Extensive field and laboratory identifications.
- 427G. Independent Studies in Biology (1)(1)(1).** (Grade of Pass or Fail only.) Prerequisite: BY 370. Laboratory or field research investigation dealing with an aspect of biological sciences; biology sponsor required for topic approval and supervision.



- 431G. Cellular Physiology (4).** Prerequisites: BY 373, CY 105, 106, 107, 108; CY 231,232 recommended. Systematic survey of cellular physiology in eukaryotic cells, membranes, energetics, and genetic expression emphasized; lecture and laboratory.
- 432G. Experimental Ecology (4).** Prerequisites: BY 332; MS 204, CS 201 recommended. Experimental design and analysis of ecological data using appropriate ecological instrumentation; lecture, laboratory, and field studies.
- 434G. Animal Systems Physiology (4).** Prerequisites: BY 373; CY 105, 106, 107, 108; CY 231, 232 and one semester of physics recommended. Systematic survey of organ system physiology in vertebrates; systems analysis, biophysics, and bioengineering emphasized; lecture and laboratory.
- 438G. Freshwater Biology (4).** Prerequisite: BY 332. Analysis of the unique ecology and biology of the freshwater environment; extensive field work; research project; lecture, laboratory, and field studies.
- 439G. Microbial Ecology (4).** Prerequisites: BY 323, 332. 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.
- 440G. Evolutionary Biology (4).** Prerequisite: BY 322. Study of the processes and mechanisms which lead to evolutionary change in the biota; lecture, laboratory and field studies.
- 442G. General Entomology (4).** Prerequisite: BY 332. Lecture, laboratory, and field study of insects and other arthropods, with an emphasis on the taxonomy, morphology, physiology, and ecology of the insects.
- 445G. Ecotoxicology (4).** Prerequisites: BY 332, 373. Recommended: BY 322. This course is a survey of ecotoxicology. The study of the integration of the major processes involved with transport, exposure and response of biological systems to xenobiotics, how toxicants mediate interactions between organisms and their biotic and abiotic environments and, the impact and toxic effects of pollutants on diversity, growth and metabolism of living organisms, populations, communities, and the ecosystem; lecture, laboratory and field study.

- 450G. Molecular Biology (4).** Prerequisites: BY 322, 373 or permission of the instructor. Study of the processes involved in the expression of biological information at the molecular level; lecture and laboratory.
- 451G. Plant Anatomy (4).** Prerequisites: BY 373. Study of the comparative structural organization of the vegetative and reproductive parts of seed plants, from cells to tissues to systems; lecture and laboratory.
- 452G. Plant Taxonomy (4).** Prerequisite: BY 322 or 332. Survey of plant nomenclature, identification systems, description, evolution, and classification; vascular plants emphasized; lecture, library, laboratory, and field studies.
- 453G. Dendrology (3).** Prerequisites: BY 332. Identification, taxonomy, ecological characteristics, and distribution of important North American trees; one class period and one four-hour laboratory period per week; field trips.
- 454G. Tropical Biology (3).** Prerequisites: BY 101, 102, 103, 104, and permission of instructor. An extensive field trip to study the flora and fauna of tropical regions. A written and oral report are required.
- 455G. Plant Ecology (4).** Prerequisite: BY 322 or 332. 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.
- 458G. Herpetology (4).** Prerequisite: BY 332. Recommended: BY 320. Taxonomy, ecology, physiology, and external anatomy of amphibians and reptiles; conservation and field methodology emphasized; lecture, laboratory and field studies.
- 460G. Ichthyology (4).** Prerequisite: BY 332. An overview of the evolution, ecology, behavior, physiology, and conservations of fishes. Preparation and presentation of an original library or lab/field research project required. Lecture, laboratory, and field study.
- 473G. Advanced Cell Biology (4).** Prerequisites: 373. Recommended: BY 322, CY 231, 232, 362, 363. A study of molecular aspects of cell structures and their functions using both descriptive and biochemical approaches. Lecture and laboratory.
- 475G. Economic Botany (4).** Prerequisites: BY322 or 332. 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.

- 476G. Invertebrate Zoology (4).** Prerequisite: BY 332. Systematics, ecology, physiology, and phylogenic relationships of invertebrate animals; lecture, laboratory, and field studies.
- 477G. Cell and Tissue Culture (3).** Prerequisites: BY 101, 102, 103, 104, 373, CY 105-108. Recommended: BY 322, 412, 431 and CY 231. Cell and Tissue Culture is an advanced biology course dealing with in vitro manipulation of cells, organs, and tissues; both solid and suspension culture and their application to biotechnology. Lecture and laboratory.
- 479G. Plant Physiology (4).** Prerequisite: BY 373; BY 451 recommended. Mineral nutrition, water relations, photosynthesis, metabolism and transport in vascular plants; lecture and laboratory.
- 480G. Advanced Topics in Biology I (1).** Prerequisites: BY 322 or 332 or 373. Lecture and discussion; topics to be posted in the Biology Department.
- 481G. Advanced Topics in Biology II (1).** Prerequisites: BY 322 or 332 or 373. Lecture and discussion; topics to be posted in the Biology Department.
- 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).** Prerequisites: BY 322, 332, 373 or equivalent and one 400 level organismal courses. Analysis of the nature and mechanism of symbiotic associations, including commensalism, mutualism, parasitism, that involve interactions between organisms.
- 570. Seminar in Developmental Biology (2).** Prerequisite: Permission of the instructor. 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.
- 571. Seminar in Organismal Biology (2).** Prerequisite: Permission of the instructor. Presentation, discussion, and analysis of recently published research focusing on specific groups of organisms; independent library research required.
- 572. Seminar in Ecology (2).** Prerequisite: Permission of the instructor. Presentation, discussion, and analysis of recently published research in plant, animal, or microbial ecology; independent library research required.

573. **Seminar in Cell Biology (2).** Prerequisite: Permission of the instructor. Presentation, discussion, and analysis of recently published research in cellular biology; independent library research required.
574. **Seminar in Evolutionary Biology (2).** Prerequisite: Permission of the instructor. Presentation, discussion, and analysis of recently published research in evolutionary biology; independent library research required.
575. **Seminar in Genetics (2).** Prerequisite: Permission of the instructor. Presentation, discussion, and analysis of recently published research in plant, animal, or microbial genetics; independent library research required.
576. **Seminar in Physiology (2).** Prerequisite: Permission of the instructor. Presentation, discussion, and analysis of recently published research in plant, animal, or microbial physiology; independent library research required.
577. **Seminar in Systematics (2).** Prerequisite: Permission of the instructor. Presentation, discussion, and analysis of recently published research in systematic biology; independent library research required.
594. **Biology Research Methods (1).** Prerequisite: Permission of the instructor. 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.
595. **Research Project (3) (3).** (Grade of Pass or Fail only) Prerequisites: BY 594, completion of at least 20 hours of graduate study in biology, and permission of the instructor. Completion of an acceptable original research paper; non-thesis option only.
596. **Research I (1) (1).** (Grade of Pass or Fail only). Prerequisite: Approval of Application for Thesis Option and permission of the instructor. Original field and/or laboratory research in the biological sciences; thesis option only.
597. **Research II (2) (2).** (Grade of Pass or Fail only) Prerequisite: Approval of Application for Thesis Option and permission of the instructor. Original field and/or laboratory research in the biological sciences; thesis option only.
598. **Research (3) (3).** (Grade of Pass or Fail only). Prerequisites: Approval of Application for Thesis Option, BY 594 and permission of the instructor. Master's thesis research.

599. **Thesis (3) (3).** (Grade of Pass or Fail only) Prerequisite: Approval of Application for Thesis Option. See “Thesis Option and Procedures” on pages 46.



## 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 liberal 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 Dauphin Island Sea Lab (Dauphin Island, Alabama) which is sponsored by the Marine Environmental Sciences Consortium (MESC). The Consortium is composed of 23 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).** Prerequisite: Graduate standing in biology. In-depth study of the principles and methods of fishery biology and their application to conservation; lecture and laboratories.
- 411G. Marine Ecology (4).** Prerequisites: Graduate standing in biology; marine invertebrate zoology or marine biology (one semester of physics recommended). 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.
- 412G. Coastal Ornithology (4).** Prerequisite: Graduate standing in biology. 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.

- 415G. Marine Botany (4).** Prerequisite: Graduate standing in biology. 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.
- 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).** Prerequisite: Graduate standing in biology. 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.
- 427G. Marine Technical Methods I (2).** Prerequisite: Graduate standing in biology. 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.
- 428G. Marine Technical Methods II (2).** Prerequisite: Graduate standing in biology. 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.
- 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 protists 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 neural networks; lecture and laboratory.
- 486G. Marine Vertebrate Zoology (4).** Prerequisite: Graduate standing in biology. 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.
- 487G. Marine Invertebrate Zoology (4).** Prerequisite: Graduate standing in biology. 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.
- 501. Field Marine Science - Florida (2).** Prerequisite: MBY 390. 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.
- 502. Field Marine Science - Maine (2).** Prerequisite: MBY 390. 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.



- 505. Fisheries Techniques (3).** Prerequisites: An ichthyology course or MBY 486 or an introductory course in fisheries; introductory statistics recommended. 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-disciplines.
- 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).** Prerequisites: One year of general biology and graduate standing in biology. 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.
- 542. Marine Plankton (3).** Prerequisite: MBY 566. Familiarizes students with the taxonomic breadth of phytoplankton, bacterioplankton, and zooplankton in estuaries, coastal seas, and open oceans; lecture and discussion sessions.
- 554. Marine Biogeography and Paleobiology (3).** Prerequisite: BY 332 or MBY 411. 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.
- 555. Marine Biogeochemical Processes (2).** Prerequisites: Graduate standing in biology and a background that includes inorganic and organic chemistry, geology, marine ecology or oceanography. 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.

558. **Advanced Marine Ecology (2).** Prerequisites: BY 332 and MBY 411. 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.
559. **Benthic Ecology (2).** Prerequisites: BY 332 or MBY 411G. 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.
564. **Marine Zoogeography (4).** Prerequisite: 12 semester hours of biology. 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.
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 (2).** Prerequisite: MBY 566 recommended. 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.
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 degree program.

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 non-profit 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 continuous improvement of 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 the 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. The College of Graduate Studies

will automatically receive the JSU transcript once a student has filed an application for admission to 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;

OR

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 MBA 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)
CBA	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 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 twelve (12) 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

### 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	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)
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

### REQUIRED BUSINESS ADMINISTRATION COURSES FOR THE MASTER OF PUBLIC ADMINISTRATION DEGREE (MPA) WITH A CONCENTRATION IN BUSINESS ADMINISTRATION

Business administration courses (15 semester hours) required for the MPA degree with a concentration in business administration will be determined based on the background and interest of the student, in consultation with the student's primary advisor. The MBA Director serves as the primary advisor to all MPA students who are concentrating in business administration. Refer to pages 258-259 for additional course requirements for the MPA degree.

### 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).** Prerequisites: ACC 301. A continuation of the transaction cycles of a business with emphasis placed on flowcharting, context diagrams, and data flow diagrams. Risk assessment of inadequate internal controls in an Electronic Data Processing environment. (Scheduled on demand.)
- 476G. Advanced Income Tax Accounting (3).** Prerequisites: ACC 372. Advanced federal income tax topics including property transactions and international taxation issues. The course also focuses on the taxation of corporations, S corporations, and partnerships. Limited coverage is provided on the taxation of trusts and estates as well as the alternative minimum tax. Understanding the implementation of the current regulations as well as tax planning strategies are discussed. (Fall.)
- 490G. Advanced Auditing (3).** Prerequisite: ACC 477. The practical application of auditing concepts and standards. An understanding of auditing principles is reinforced and explained by exposure to problems and cases. (Spring.)
- 497G. Seminar in Accounting (3).** Prerequisites: ACC 512 and ACC 490G. Examines critical accounting topics through intensive review of current literature and pronouncements. Assesses student's ability to effectively communicate accounting information.
- 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).** Prerequisite: ACC 200 or equivalent. Analysis and use of accounting data as a tool for managerial decision making; analysis of financial reporting, cost behavior, budgeting, and decision making.
- 523. Cost Control and Profit Planning (3).** Prerequisite: ACC 512. 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).
- 589. Internship in Accounting (3).** Prerequisites: Permission of the instructor and approval of the MBA Director. (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.



- 598. Independent Research (3).** 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. In-depth study of selected topic(s).

## 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.
- 510. Business Forecasting (3).** Prerequisites: BA 500. 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.
- 540. Technology and Total Quality (3).** Prerequisites: BA 500. Integrative study of the effects of technology management on the American economy and the concepts of a total quality management system.
- 587. Business Policy & Strategy (3).** Prerequisites: at least 21 hours of course work including ACC 512, FIN 515, MKT 513, EC 515, and BA 510. Integrative study of strategic decision-making and policy formulation; extensive reading and case analysis.

## 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, the Federal Reserve, the Fulton Fish Market, a large international bank, an advertising agency, a bond advisory company, and other tours relevant to economics. Summer only.

515. **Managerial Economics (3).** Prerequisites: EC 200. Advanced study of microeconomic principles, with analysis applied to actual business management situations.
589. **Internship in Economics (3).** (Grade of Pass or Fail only.) Prerequisites: Permission of the instructor and approval of the MBA Director. Provides the graduate student with practical experience in the field of economics via a “real-world” work experience arrangement.
598. **Independent Research (3).** Permission of the instructor and approval of the MBA Director. In-depth study of selected topic(s). Prerequisites: Completion of 18 semester hours of graduate courses including a three-semester hour quantitative course.

## 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.) Prerequisites: Permission of the instructor and approval of the MBA Director. Provides the graduate student with practical experience in the field of finance via a “real-world” work experience arrangement.
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).** 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. In-depth study of selected topic(s).

## 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.
522. **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.
535. **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.
589. **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.
590. **International Management (3).** Examination of issues arising in management of international operations. Prerequisite: MGT 504 or the equivalent.
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.

## 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.

530. **Contemporary Issues in Marketing (3).** Prerequisite: MKT 513. 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.
589. **Internship in Marketing (3).** (Grade of Pass or Fail only.) Prerequisites: Permission of the instructor and approval of the MBA Director. Provides the graduate student with practical experience in the field of marketing via a “real-world” work experience arrangement.
590. **International Marketing (3).** Prerequisite: MKT 513. 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.
598. **Independent Research (3).** 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. In-depth study of selected topic(s).

## CHEMISTRY

The Department of Physical and Earth Sciences offers supporting courses for the Master of Arts with a major in liberal 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 COURSES

#### Prefix CY

- 430G. Environmental Chemistry (3).** Prerequisites: CY 232 and 321. Introductions to water, air, and soil quality and their measurements; problems, regulations, treatment, and ultimate disposal of hazardous and toxic waste materials; spill clean-up, groundwater transport, land disposal, incineration and treatment technologies discussed.
- 471G. Toxicological Chemistry (3).** Prerequisite: CY 232. Study of the principles of toxicology including identification of, characterization of, and risk from environmental exposures to toxic substances.
- 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.) May be repeated up to three times.



## 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 liberal 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 the 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. The College of Graduate Studies will automatically receive the JSU transcript once a student has filed an application for admission to 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 Systems (CS 488), Data Structures and Algorithms (CS 331), Calculus I

(MS 141) and demonstrated proficiency in a procedural or object-oriented 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 and quantitative measures of the General Test of the GRE is equal to or greater than a total of 2100 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 completion of the initial undergraduate degree plus the total score of verbal and quantitative measures of the General Test of the GRE is equal to or greater than a total of 2450 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 on the initial undergraduate degree plus the total score of verbal and quantitative measures of the General Test of the GRE is equal to or greater than a total of 1700 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 and quantitative measures of the General Test of the GRE is equal to or greater than a total of 1850 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 (15 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	442G	Compiler Construction (3)
CS	443G	Expert Systems (3)
	or	
CS	444G	Artificial Intelligence (3)
	and	
CS	450G	Computer Networking (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).** Prerequisite: A programming language and permission of instructor. Theory of compiler construction; implementation of various scanning and parsing techniques, code generation, and storage allocation as components of a functional compiler.
- 443G. Expert Systems (3).** Prerequisite: A procedural or object-oriented programming language. Definition, design, and development of expert systems.
- 444G. Artificial Intelligence (3).** Prerequisite: CS 331 or CS 350. Introduction to the principles and methods used in artificial intelligence programs with a focus on autonomous agents. Offered every two years during the fall semester.
- 450G. Computer Networking (3).** Prerequisite: CS 350. Study of the computer interconnection and protocols with emphasis on network layers, error detection/correction, and topologies; project approach utilized.
- 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).** Prerequisite: A programming language. 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.
- 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).** Prerequisite: Permission of the instructor. 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.)
- 521. Applied Software Engineering I (3).** Prerequisite: Comprehensive undergraduate course in software engineering or industrial software engineering experience with a large project. 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.
- 523. Applied Software Engineering II (3).** Prerequisite: CS 521. 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.
- 530. Human-Computer Interaction (3).** Prerequisite: CS 521. Human-computer interface, human performance, diversity, and mental models, interaction devices, dialog and interface styles, documentation, and usability testing. Offered every two years during the spring semester.
- 534. Emerging Software Architectures and Methodologies (3).** Prerequisite: CS 523. 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.
- 542. Software Cost Estimation and Metrics (3).** Prerequisite: CS 523. Study of software development cost models, metrics, and estimation techniques; emphasis on application of one or two models and tools.
- 544. Applied Artificial Intelligence (3).** Prerequisites: CS 521 and CS 444G or permission of instructor. Survey of artificial intelligence emphasizing applications in business, industrial, and scientific system development; autonomous agents, data mining, pattern recognition, and machine vision. Offered every two years during the fall semester.
- 550. Distributed Computing Systems (3).** Prerequisite: CS 450 and 521. 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.

- 553. Simulation, Modeling, and Forecasting (3).** Prerequisite: CS 521. Deterministic and stochastic models are studied; simulation techniques, languages, and programming packages used to implement simulation models; virtual reality simulations.
- 565. Embedded and Real-Time Software Development (3).** Prerequisite: CS 523. 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.
- 591, 592. Special Topics in Computer Science (3) (3).** Prerequisite: Permission of the advisor and approval of the department head. Selected topics from current problems in computing; topics vary from semester to semester. May be taken twice for credit.
- 595, 596. Studio Component (3) (3).** Prerequisite: Permission of the advisor and approval of department head. Provides students with a laboratory for direct application of concepts learned in course work; students will produce a variety of software products.

## 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 liberal 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 MS DEGREE

**Non-Thesis Option:** Total of 30 semester hours. The student must complete 24 hours in criminal justice courses, including 15 hours in required criminal justice courses and 9 hours of criminal justice electives. The remaining 6 hours may be in criminal justice or in a related field approved in advance by the head of the Criminal Justice Department.

**Thesis Option:** Total of 30 semester hours. The student must complete 24 hours in criminal justice courses, including 15 hours in required criminal justice courses, 6 hours of thesis, and a 3 hour criminal justice elective. The remaining 6 hours may be in criminal justice or in a related field approved in advance by the head of the Criminal Justice Department. See "Thesis Options and Procedures" on page 46.

### Required criminal justice courses (15 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)

### REQUIRED CRIMINAL JUSTICE COURSES FOR THE MASTER OF PUBLIC ADMINISTRATION DEGREE (MPA) WITH A CONCENTRATION IN CRIMINAL JUSTICE

Required criminal justice courses for the Master of Public Administration degree with a concentration in criminal justice courses (15 semester hours). Refer to pages 243-244 for additional course requirements for the MPA degree.

CJ	500	Seminar in Contemporary Criminal Justice Issues (3)
CJ	521	Seminar in Criminological Theory (3)
CJ	elect	Criminal Justice elective (3)
CJ	elect	Criminal Justice elective (3)
CJ	elect	Criminal Justice elective (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).** Prerequisite: CJ 501. 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.)
- 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).** Prerequisite: CJ 501 and 502. A study of planning and evaluation in criminal justice agencies, programs, and the preparation of grant proposals.

512. **Directed Study in Criminal Justice (3) (3).** Prerequisite: Permission of the instructor and approval of the department head. Preparation, completion, and submission of an acceptable individual project. May be taken for a total of six credit hours.
516. **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.
521. **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.
523. **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.
525. **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.
526. **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.
527. **Seminar in Criminal Behavior and Personality (3).** Prerequisite: CJ 521 or permission of the instructor. 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.
528. **Seminar in Correctional Counseling (3).** Prerequisite: CJ 527. The study and practical application of effective correctional counseling and treatment methodologies for youthful and adult offenders.
598. **Directed Reading (3) (3).** Prerequisite: Permission of the instructor and approval of the department head. Selected topics appropriate to student's course of study as determined by faculty advisor. May be taken for a total of six credit hours.
599. **Thesis (3) (3).** (Grade of Pass or Fail only) Prerequisite: Approval of Application for Thesis Option. See "Thesis Option and Procedures" on page 45.

## DRAMA

The Department of Drama offers supporting courses for the Master of Arts with a major in liberal 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 offered. Add-on fifth- and sixth-year teacher certification programs are also available.

The College 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 offers the Alternative Fifth-Year Teacher Certification Program for students who completed bachelor's degrees from regionally accredited institutions in a field other than teacher education or for initial certification in a second teaching field. Completion of the Alternative Fifth-Year Program leads to the 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 158.

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. Teacher education programs may be altered to meet changes in federal and Alabama State Department of Education regulations.

The faculty of the College of Education and Professional Studies 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 (P-12)	School Counseling	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	Xb		X	
	Vocal-Choral	Xb		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 Teacher (K-6)	X	X	X	X
	Collaborative Teacher (6-12)	X	X	X	X

<sup>a</sup> Master of Science degree with a major in counselor education and a concentration in school counseling.

<sup>b</sup> Master of Arts with a major in music and a concentration in music education.

## 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 clear and renewable 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 6-12) 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. **The student will not be allowed to register or pre-register for subsequent semesters until all admission requirements have been completed and the student is admitted to graduate studies.**

### 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 within a twelve-month time frame. Failure to meet these conditions will result in the student being dropped from graduate studies.

## 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 sections 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. Subsequently, 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 fifth-year 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 Ed-

ucation, 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 158-162.

#### **MINIMUM REQUIREMENTS FOR MASTERS' PROGRAMS IN EDUCATION**

The course requirements and the minimum number of semester hours for each program are provided on the individual program of study sheet in the subsequent sections 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 based on a 4.0 scale.

### **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 educa-

tional 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.
4. 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.
5. 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.
6. 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.
7. 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:

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### Master of Science in Education

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### Master of Arts

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### Master of Science

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Descriptions of the courses listed in the programs of study are found on pages 186-202.

Programs of study for Alternative Fifth-Year Teacher Certification Programs are also provided, beginning on page 158.

Course listings and requirements for master's level add-on certification programs are found on page 132 for educational administration, page 136 for library media, page 140 for reading specialist, and page 156 for school counseling.



**EDUCATIONAL SPECIALIST  
MAJOR: EDUCATION  
CONCENTRATION: COMMUNITY AGENCY COUNSELING**

**Basic 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 Requirements (12 semester hours):**

**Choose *Four* from the following:**

ECG	521	Program Development (3)
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)
ECG	693	Supervision in Counseling (3)
EPY	592	Individual/Group Appraisal (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 may not be repeated or counted for the Ed.S. degree.

**EDUCATIONAL SPECIALIST  
MAJOR: EDUCATION  
CONCENTRATION: EARLY CHILDHOOD EDUCATION (P-3)**

**Basic Requirements (15-18 semester hours):**

EFD	615	Leadership in Education (3)
EFD	632	Assessment in Education (3)
EFD	681	Problems in Education I (3) (Prerequisites: ECE 631 and ECE 642)
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: 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.

Completion of this program leads to eligibility for sixth-year teacher certification. Admission to this program requires fifth-year (master's) teacher certification in early childhood education P-3 or P-5.

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

**Basic 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)<br>(Prerequisite: EAD 610)<br>(To be taken toward the end of the program upon advisement.)   |
| EAD 682  | Problems in Educational Administration II (3)<br>(Prerequisite: EAD 681)<br>(Must be taken in the last semester of enrollment upon advisement.)   |
| *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. |

**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.

Completion of this program leads to eligibility for sixth-year teacher certification. Admission to this program requires fifth-year (master's) teacher certification in educational administration.

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

**Basic Requirements (15-18 semester hours):**

EFD 615	Leadership in Education (3)
EFD 632	Assessment in Education (3)
EFD 681	Problems in Education I (3) (Prerequisites: EED 631 and EED 642)
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):**

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: 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.

Completion of this program leads to eligibility for sixth-year teacher certification. Admission to this program requires fifth-year (master's) teacher certification in elementary education K-6 or Georgia teacher certification in elementary education K-5, early childhood education P-5, or middle grades generalist 4-8.

**EDUCATIONAL SPECIALIST  
MAJOR: EDUCATION  
CONCENTRATION: PHYSICAL EDUCATION (P-12)**

**Basic 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):**

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: 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.

Completion of this program leads to eligibility for sixth-year teacher certification. Admission to this program requires fifth-year (master's) teacher certification in physical education.

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

**Basic 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 Requirements (12 semester hours):**

**Choose *Four* from the following**

ECC	523	Multicultural Issues (3)
ECC	540	Diagnosis and Treatment of the DSM Disorders (3)
ECC	588	Crisis Counseling (3)
ECC	634	Advanced Counseling Theories (3)
ECC	637	Advanced Career Counseling (3)
ECC	646	Advanced Group Procedures in Counseling (3)
ECC	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 master's degree or fifth-year/master's certification may not be repeated or counted for the Ed.S. degree.

Completion of this program leads to eligibility for sixth-year teacher certification. Admission to this program requires fifth-year (master's) teacher certification in school counseling.

**EDUCATIONAL SPECIALIST  
MAJOR: EDUCATION  
CONCENTRATION: SECONDARY EDUCATION SUBJECT MATTER  
TEACHING FIELD: BIOLOGY (6-12)**

**Basic 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.

**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.

Completion of this program leads to eligibility for sixth-year teacher certification. Admission to this program requires fifth-year (master's) teacher certification in biology or general science.



**EDUCATIONAL SPECIALIST**  
**MAJOR: EDUCATION**  
**CONCENTRATION: SECONDARY EDUCATION SUBJECT MATTER**  
**TEACHING FIELD: ENGLISH LANGUAGE ARTS (6-12)**

**Basic 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.

**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.

Completion of this program leads to eligibility for sixth-year teacher certification. Admission to this program requires fifth-year (master's) teacher certification in English or English Language Arts.

**EDUCATIONAL SPECIALIST**  
**MAJOR: EDUCATION**  
**CONCENTRATION: SECONDARY EDUCATION SUBJECT MATTER**  
**TEACHING FIELD: GENERAL SCIENCE (6-12)**

**Basic 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.

**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.

Completion of this program leads to eligibility for sixth-year teacher certification. Admission to this program requires fifth-year (master's) teacher certification in general science.

**EDUCATIONAL SPECIALIST  
MAJOR: EDUCATION  
CONCENTRATION: SECONDARY EDUCATION SUBJECT MATTER  
TEACHING FIELD: HISTORY (6-12)**

**Basic 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.

Completion of this program leads to eligibility for sixth-year teacher certification. Admission to this program requires fifth-year (master's) teacher certification in history or social science.

**EDUCATIONAL SPECIALIST  
MAJOR: EDUCATION  
CONCENTRATION: SECONDARY EDUCATION SUBJECT MATTER  
TEACHING FIELD: MATHEMATICS (6-12)**

**Basic 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.

**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.

Completion of this program leads to eligibility for sixth-year teacher certification. Admission to this program requires fifth-year (master's) teacher certification in mathematics.

**EDUCATIONAL SPECIALIST  
MAJOR: EDUCATION  
CONCENTRATION: SECONDARY EDUCATION SUBJECT MATTER  
TEACHING FIELD: SOCIAL SCIENCE (6-12)**

**Basic 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.

**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.

Completion of this program leads to eligibility for sixth-year teacher certification. Admission to this program requires fifth-year (master's) teacher certification in social science.

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

**Basic Requirements (15-18 semester hours):**

EFD	615	Leadership in Education (3)
EFD	632	Assessment in Education (3)
EFD	681	Problems in Education I (3) (Prerequisites: SPE 620 and SPE 624)
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: 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.

Completion of this program leads to eligibility for sixth-year teacher certification. Admission to this program requires fifth-year (master's) teacher certification in any area.

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

**Basic Requirements (15-18 semester hours):**

EFD	615	Leadership in Education (3)
EFD	632	Assessment in Education (3)
EFD	681	Problems in Education I (3) (Prerequisites: SPE 620 and SPE 624)
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	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	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.

Completion of this program leads to eligibility for sixth-year teacher certification. Admission to this program requires fifth-year (master's) teacher certification in any area.

**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**

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires the fourth-year (bachelor's) teacher certification in early childhood education P-3 or P-5.



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

- |     |     |  |
|-----|-----|--|
| 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)<br>(Prerequisite: EIM 503) |
| EIM | 505 | Curriculum Integration of Technology (3)<br>(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**

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in early childhood education P-3 or P-5.

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

**Basic Requirements (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	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	Practicum in Severe Disabilities (3)

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

**Notes:**

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.

Completion of this program leads to eligibility for fifth-year (master's) teaching certification.

**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)<br>(offered Fall and Spring) |

**Instructional Technology (3 semester hours):**

**Choose *One* from the following:**

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

**Educational Foundations (3 semester hours):**

**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**

**Notes:**

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

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in any area.

**Master's Level Add-On Certificate in Educational Administration  
(18 semester hours)**

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. Prior graduate course work will be evaluated for possible transfer credit upon receipt of the "Transfer Credit Request" form, the official transcript with the course and grade posted, and the course descriptions. The 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>. 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. The "Application for Comprehensive Exam/Degree" form must be filed in the office of the College of Graduate Studies by the due dates listed for each semester in the University Calendar located in the front of this *Bulletin*. The 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>.

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.

Completion of this program leads to eligibility for fifth-year (master's) teacher certification in Educational Administration.

**MASTER OF SCIENCE IN EDUCATION  
MAJOR: ELEMENTARY EDUCATION (K-6)**

**Basic Requirements (15-18 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 | 542 | Teaching Reading (3)              |
| EED | 549 | Reflective Teaching Practices (3) |
- (To be taken at end of program during Fall or Spring Semester)

**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)                   |
| EED | 569 | Remedial Procedures in Elementary School (3) |

**\*Electives: 0 or 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**

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in elementary education K-6 or Georgia teacher certification in elementary education K-5, early childhood education P-5, or middle grades generalist 4-8.

**MASTER OF SCIENCE IN EDUCATION  
MAJOR: ELEMENTARY EDUCATION (K-6)  
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)<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:**

- |     |     |  |
|-----|-----|--|
| 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)<br>(Prerequisite: EIM 503) |
| EIM | 505 | Curriculum Integration of Technology (3)<br>(Prerequisite: EIM 504)            |

**Teaching Field Requirements (12 semester hours):**

- |     |     |   |
|-----|-----|---|
| EED | 542 | Teaching Reading (3)  |
| EED | 549 | Reflective Teaching Practices (3)<br>(To be taken at end of program during Fall or Spring Semester) |

**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)                    |
| EED | 569 | Remedial Procedures in Elementary Schools (3) |

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

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in elementary education K-6 or Georgia teacher certification in elementary education K-5, early childhood education P-5, or middle grades generalist 4-8.

**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)<br>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 (24 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 courses numbered at the 400G or 500 levels.

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

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in any area of education.

**Master's Level Add-On Certification in Library Media (P-12)**  
**(24 semester hours)**

Students who hold a master's degree and master's certification may add-on a master's library media certificate by completing the following courses:

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 Media (3)

Prior graduate course work may be used to complete requirements for this certification. Prior graduate course work will be evaluated for possible transfer credit upon receipt of the "Transfer Credit Request" form, in the office of the College of Graduate Studies, 121 Curtiss Hall, or online at <http://www.jsu.edu/depart/graduate/forms.htm>. 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. The "Applications for Comprehensive Exam/Degree" form must be filed in the office of the College of Graduate Studies by the due dates listed for each semester in the University Calendar located in the front of this *Bulletin*. The 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>.

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:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification in Library Media.



**MASTER OF SCIENCE IN EDUCATION  
MAJOR: LIBRARY MEDIA (P-12)  
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)<br>(Prerequisite: EIM 503) |
| EIM | 505 | Curriculum Integration of Technology (3)<br>(Prerequisite: EIM 504)            |

**Library Media Courses (21 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**

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in any area of Education.

**MASTER OF SCIENCE IN EDUCATION  
MAJOR: PHYSICAL EDUCATION (P-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)
EIM	503	Computer Based Instructional Technologies (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	594	Seminar in Contemporary Education (3)

**Teaching Field Requirements (15 semester hours):**

**Choose *Five* from the following:**

PE	502	Sociology of Sport (3)
PE	503	Sport History (3)
PE	510	Physical Education Curriculum (3)
PE	530	Physiology of Exercise (3)
PE	535	Skill Analysis (3)
PE	539	Diet and Performance (3)
PE	540	Physical Education and Law (3)
PE	545	Stress Management Strategies for the HPE Teacher (3)
PE	560	Readings in Physical Education (3)
PE	568	Administration of Athletics (3)
PE	575	Physical Fitness & Health (3)
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)
PE	585	Physical Activity and the Aging Process (3)

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

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in physical education.

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

**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)

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

**Notes:**

For admission to the M.S.Ed. with a major in reading specialist, applicants must hold a bachelor's degree, a current teaching certificate, and two years of teaching experience. Students who hold a bachelor's level certificate in areas other than early childhood education, elementary education, or special education must complete two reading courses of which one must be an introductory reading course.

Completion of this program leads to eligibility for fifth-year (master's level) teacher certification.

**Master's Level Add-On Certification in Reading Specialist (P-12)**  
**(21 semester hours)**

Students who hold a master's degree and master's certification may add-on a reading specialist certificate by completing the following reading specialist courses and verification of completion of two years of teaching experience in the public schools at the early childhood, elementary, or secondary levels:

RDG 538	Teaching Reading in ECE (3)
RDG 542	Teaching Reading (3)
RDG 545	Teaching Language Arts (3)
RDG 567	Improvement in 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 the Organization and Supervision of Reading Programs (2)

Prior graduate course work may be used to complete requirements for this certification. Prior graduate course work will be evaluated for possible transfer credit upon receipt of the "Transfer Credit Request" form, the official transcript with the course and grade posted, and the course descriptions. The 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>. 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. The "Application for Comprehensive Exam/Degree" form must be filed in the office of the College of Graduate Studies by the due dates listed for each semester in the University Calendar located in the front of this *Bulletin*. The 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>.

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:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification in Reading Specialist.

**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: 3 semester hours:**

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

**33-36\* 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. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in biology or general science.

**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**

**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. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in biology or general science.

**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: 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 400G or 500 levels.

**33-36\* 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. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification English or English Language Arts.

**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**

**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. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in English or English Language Arts.



**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 400G or 500 levels.

**33-36\* 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. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in general science.

**MASTER OF SCIENCE IN EDUCATION  
MAJOR: SECONDARY EDUCATION SUBJECT MATTER  
TECHNOLOGY OPTION  
TEACHING FIELD: GENERAL 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 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**

**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. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in general science.

**MASTER OF SCIENCE IN EDUCATION  
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	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 400G or 500 levels.

**33-36\* 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. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in history or social science.

**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**

**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. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in history or social science.

**MASTER OF SCIENCE IN EDUCATION  
MAJOR: SECONDARY EDUCATION SUBJECT MATTER  
TEACHING FIELD: MATHEMATICS (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 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 400G or 500 levels.

**33-36\* 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. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in mathematics.

**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**

**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. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in mathematics.

**MASTER OF SCIENCE IN EDUCATION  
MAJOR: SECONDARY EDUCATION SUBJECT MATTER  
TEACHING FIELD: SOCIAL 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 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 400G or 500 levels.

**33-36\* 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. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in social science.

**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**

**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. Transfer credit cannot be used to raise the GPA in this teaching field course work to the required 3.0.

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in social science.



**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)<br>Students who have not previously satisfied the special education requirement at the undergraduate or graduate level must take SPE 500. |

**Teaching Field Requirements (30 semester hours):**

- |     |     |   |
|-----|-----|---|
| SPE | 505 | Functional Communication (3)  |
| SPE | 516 | Characteristics of Students with Mild to Moderate Disabilities (3)<br>(Prerequisite: SPE 500)   |
| SPE | 517 | Preferred Instructional Practice for Elementary Students with Disabilities of Learning and Behavior (3)<br>(Prerequisites: SPE 500 and SPE 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)<br>(Prerequisite: SPE 500)   |
| SPE | 561 | Research and Practices of Severe Disabilities, Elementary Level (3)<br>(Prerequisite: SPE 560)  |
| SPE | 583 | Practicum in Disabilities of Learning and Behavior (3)<br>(Prerequisites: SPE 516 and SPE 517)  |
| SPE | 586 | Practicum in Severe Disabilities (3)<br>(Prerequisites: SPE 560 and SPE 561)  |

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

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in any area.

**MASTER OF SCIENCE IN EDUCATION  
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 the undergraduate or graduate level must take SPE 500.

**Teaching Field Requirements (30 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) (Prerequisites: SPE 500 and SPE 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	Practicum in Disabilities of Learning and Behavior (3) (Prerequisites: SPE 516 and SPE 518)
SPE	586	Practicum in Severe Disabilities (3) (Prerequisites: SPE 560 and SPE 562)

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

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in any area.

**MASTER OF SCIENCE  
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 (21 semester hours):**

ECG	510	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	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**

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in any area.

**Master's Level add-On Certification in School Counseling (P-12)**  
**(36 semester hours)**

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 below:

ECG 510	Introduction to Counseling (3)
ECG 521	Program Development (3)
ECG 525	Skills Development (3)
ECG 545	Consultation/Interventions (3)
ECG 553	Theory and Process (3)
ECG 556	Career Development (3)
ECG 558	Counseling Children/Adolescents (3)
ECG 585	Counseling Practicum (3)
ECG 591	Group Procedures in Counseling (3)
ECG 594	Internship in School Counseling (3)
EPY 525	Lifespan Development (3)
EPY 592	Individual/Group Appraisal (3)

Prior graduate course work may be used to complete requirements for this certification. Prior graduate course work will be evaluated for possible transfer credit upon receipt of the "Transfer Credit Request" form, the official transcript with the course and grade posted, and the course description(s). The form is available in the College of Graduate Studies, 121 Curtiss Hall, or online at <http://www.jsu.edu/depart/graduate/forms.htm>. 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 add-on teacher certification programs. The "Application for Comprehensive Exam/Degree" form must be filed in the College of Graduate Studies by the due dates listed for each semester in the University Calendar located in the front of this *Bulletin*. The form is available in the College of Graduate Studies, 121 Curtiss Hall, or online at <http://www.jsu.edu/depart/graduate/forms.htm>.

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:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification in Counselor Education/School Counseling.

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

**Basic Requirements (9 semester hours):**

EFD	500	Research in Education (3)
EFD	501	Tests and Measurements (3)
EPY	525	Lifespan Development (3)

**Counseling Core Courses (24 semester hours):**

ECG	510	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 below.

### **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 14-18, 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. No courses requiring Teacher Education Program admission may be used to raise GPA.
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, elementary education, and collaborative teacher (K-6) teaching fields must show completion of twelve hours in science, twelve hours in English, twelve hours in social science, and twelve hours in mathematics.
4. The student must have successfully completed (C or better) the following courses: English 101, English 102, Math 102 or higher level. Literature (3 hours), and Natural Sciences (8 hours). Elementary Education and Early Childhood Education majors must complete BY 101, 102, 103, 104 for the natural science requirement.
5. The student must have successfully completed the Applied Mathematics, Reading for Information, and Writing components of the Alabama Prospective Teacher Test (APTT). The applicant must provide documentation of the successful completion of the APTT to the Teacher Service Center. This requirement will become effective for admission June 2005, however, until that time it will remain an internship eligibility requirement.

6. The student must have successfully completed the Teacher Education Program orientation course. This course is offered Fall and Spring only.
7. The student must have classroom observation at the level and in the teaching area in which he/she is seeking a degree or certification. A minimum of twenty-five hours of structured observation is required for all students. Forms are available for verification of observation in Room 207, Ramona Wood.
8. The student must satisfactorily complete an interview to provide information of the applicant's personality, interests, and aptitudes consistent with the requirements for a successful teaching career.
9. 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.)**
10. The student must submit two official transcripts from all institutions attended. One set of transcripts will be used for official evaluation for certification and retained by the Teacher Service Center, and the College of Graduate Studies will retain the second set.
11. 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, and the College of Graduate Studies must also be notified. 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 estab-

**lished: January 31 for the following Fall Semester and September 30 for 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 fully 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.
  - c. All graduate hours attempted in professional education courses to meet the alternative fifth-year 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. The student will be required to take and pass the Major Field Achievement Test (MFAT) in general education. For information contact the Teacher Service Center, 256-782-5574.
8. 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. Subsequently, 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 the General Education MFAT, and a written comprehensive examination that covers the content of the teaching field(s) and professional education.
4. No grade below "C" in professional studies or teaching field may be used to meet certification requirements.
5. 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.
6. Anyone 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 direct-

ed to the Director of Teacher Education Services, College of Education and Professional Studies.

7. 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  
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 .....	164
Elementary Education .....	165
Physical Education .....	166
Secondary Education Subject Matter	
Biology .....	168
English Language Arts .....	170
General Science .....	172
History .....	174
Mathematics .....	176
Social Science .....	178
Special Education/Collaborative Teacher (K-6) .....	180
Special Education/Collaborative Teacher (6-12) .....	181

**Master of Arts**

Music Education/Instrumental .....	182
Music Education/Vocal-Choral .....	184

Descriptions of the courses listed in the programs of study are found on pages 186-202.

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

**Required Courses (38-42 semester hours):**

ECE	500	Materials and Methods (3)
ECE	501	Behavior & Development in Early Childhood (3)
ECE	513	Individualization of Ed. for Young Children (3)
ECE	530	Designing Programs for Young Children (3)
ECE	532	Issues & Trends in Early Childhood Education (3)
ECE	538	Teaching Reading in ECE (3)
ECE	539	Teaching Writing in ECE (3)
ECE	570	Internship in Early Childhood Education (3) (offered Fall and Spring during public school hours)
EED	541	Teaching Mathematics (3) (Prerequisites: Approved undergraduate math courses and EED 341.)
EED	544	Teaching Science (3) (Prerequisites: Approved undergraduate science courses.)
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:**

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 4 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 for information about the ECE block.)

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Students must meet admission requirements for the Alternative Fifth-Year Teacher Certification Program.

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

**Basic Requirements (33-38 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. (See listing on page .)

**\*\*Electives: 0 or 3 semester hours:**

By faculty advisement, 3 graduate semester hours of electives must be selected from courses numbered at the 400G 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 4 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 for information about the on-campus Junior Block. For information about the Junior Block in Gadsden, call (256) 782-8109.)

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Students must meet admission requirements for the Alternative Fifth-Year Teacher Certification Program.

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

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

EFD	500	Research in Education (3)
EFD	560	Psychological Principles of Learning (3)
EIM	410G	The Information Age Classroom (2)
EPY	429G	Developmental Psychology (Lab Required) (2)
ESE	567	Improvement of Reading in Secondary Schools (2)
PE	451G	Test and Measurements in PE (3)
PE	462G	Physical Education Program (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 (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).

**Choose *four* courses from the following:**

PE	502	Sociology of Sports (3)
PE	503	Sport History (3)
PE	510	Physical Education Curriculum (3)
PE	530	Physiology of Exercise (3)
PE	535	Skill Analysis (3)
PE	539	Diet and Performance (3)
PE	540	Physical Education and Law (3)
PE	545	Stress Management Strategies for the HPE Teacher (3)
PE	560	Readings in Physical Education (3)
PE	568	Administration of Athletics (3)
PE	575	Physical Fitness & Health (3)
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)
PE	585	Physical Activity and the Aging Process (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	270	Methods of Teaching Individual/Dual Sports (3)
PE	280	Methods of Teaching Team Sports (3)
PE	290	Methods of Teaching Lifetime Activities (3)
PE	362	Anatomical Kinesiology (3)
PE	400	Exercise Physiology (3)
PE	460	Motor Development (2)
HLT	232	Emergency Medical Service (2)
BY	263	Anatomy and Physiology (4)

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Students must meet admission requirements for the Alternative Fifth-Year Teacher Certification Program.

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

**Basic Requirements (26-29 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	404G	Effective Teaching (2) (Corequisite: ESE 484G) (Prerequisite: EPY 429G and lab)
ESE	423G	Secondary School Science (2)
ESE	484G	Secondary Practicum (2) (Corequisite: ESE 404G)
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: Completion of SPE 500 and all coursework listed above).
*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 400G or 500 levels.

**44 Semester Hours Required for this Degree**

\* \* \*



**Undergraduate Requirements:**

Students must have earned an undergraduate degree in biology OR; Complete 32 semester hours of undergraduate course work in biology with a minimum of 19 semester hours at the 300-400 levels.

**Required courses include:**

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)
BY	412	Plant Reproduction and Development (4)
or		
BY	413	Animal Reproduction and Development (4)
BY	300-400	level elective by advisement (3)

Students must have the approval of their advisers in professional studies BEFORE registering for undergraduate course work required to meet the undergraduate requirements/deficiencies specified for the degree.

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Students must meet admission requirements for the Alternative Fifth-Year Teacher Certification Program.

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

**Basic Requirements (26-29 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	404G	Effective Teaching in the Secondary Schools (2) (Corequisite: ESE 484G) (Prerequisite: EPY 429G and lab)
ESE	422G	Teaching Language Arts (2)
ESE	484G	Secondary Practicum (2) (Corequisite: ESE 404G)
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: Completion of SPE 500 and all coursework listed above).
*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 400G or 500 level

**44 Semester Hours Required for this Degree**

**Undergraduate Requirements:**

Students must have an undergraduate degree in ONE of the following areas: English, drama, speech or communications OR;

Complete 32 semester hours of undergraduate course work with a minimum of 19 hours at the 300-400 levels with any combination of courses from areas covered by the certification.

For the degree in the composite field of English Language Arts, additional undergraduate course work must be taken to remove undergraduate course deficiencies in related teaching fields. Deficiencies are determined with a formal evaluation of the students' transcripts. Students must have the approval of their advisers in professional studies BEFORE registering for undergraduate course work required to satisfy the undergraduate requirements/deficiencies specified for the composite degree.

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Students must meet admission requirements for the Alternative Fifth-Year Teacher Certification Program.

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

**Basic Requirements (26-29 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	404G	Effective Teaching in the Secondary Schools (2) (Corequisite: ESE 484G) (Prerequisite: EPY 429G and lab)
ESE	423G	Secondary School Sciences (2)
ESE	484G	Secondary Practicum (2) (Corequisite: ESE 404G)
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: Completion of SPE 500 and all coursework listed above).
*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 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 400G or 500 levels.

**44 Semester Hours Required for this Degree**

\* \* \*

**Undergraduate Requirements:**

Students must have an undergraduate degree in biology, chemistry, physics, or earth and space science OR;

Complete 32 semester hours of undergraduate course work with a minimum of 19 hours at the 300-400 levels with any combination of courses from areas covered by the certification.

For the degree in the composite field of general science, additional undergraduate course work must be taken to remove undergraduate course deficiencies in related teaching fields. Deficiencies are determined with a formal evaluation of the students' transcripts. Students must have the approval of their advisers in professional studies BEFORE registering for undergraduate course work required to satisfy the undergraduate requirements/deficiencies specified for the composite degree.

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Students must meet admission requirements for the Alternative Fifth-Year Teacher Certification Program.

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

**Basic Requirements (26-29 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	404G	Effective Teaching in the Secondary Schools (2) (Corequisite: ESE 484G) (Prerequisite: EPY 429G and lab)
ESE	421G	Teaching Social Science (2)
ESE	484G	Secondary Practicum (2) (Corequisite: ESE 404G)
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: Completion of SPE 500 and all coursework listed above).
*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 400G or 500 levels.

**44 Semester Hours Required for this Degree**

**Undergraduate Requirements:**

Students must have earned an undergraduate degree in history OR;

Complete 32 semester hours of undergraduate course work in history with a minimum of 19 hours at the 300-400 levels.

Students must have the approval of their advisers in professional studies BEFORE registering for undergraduate course work required to meet the undergraduate requirements/deficiencies for the degree.

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Students must meet admission requirements for the Alternative Fifth-Year Teacher Certification Program.

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

**Basic Requirements (26-29 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	404G	Effective Teaching in the Secondary Schools (2) (Corequisite: ESE 484G) (Prerequisite: EPY 429G and lab)
ESE	420G	Teaching Mathematics (2)
ESE	484G	Secondary Practicum (2) (Corequisite: ESE 404G)
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: Completion of SPE 500 and all coursework listed above).
*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 400G or 500 levels.

**44 Semester Hours Required for this Degree**



**Undergraduate Requirements:**

Students must have earned an undergraduate degree in mathematics OR; Complete 32 semester hours of undergraduate course work in mathematics with a minimum of 19 hours at the 300-400 levels. Course work must include at least 12 semester hours, or equivalent, beyond the three-course JSU calculus series, including MS 351, Introduction to Abstract Algebra.

Students must have the approval of their advisers in professional studies and in the teaching field BEFORE registering for undergraduate course work to meet the undergraduate requirements/deficiencies specified for the degree.

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Students must meet admission requirements for the Alternative Fifth-Year Teacher Certification Program.

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

**Basic Requirements (26-29 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	404G	Effective Teaching in the Secondary Schools (2) (Corequisite: ESE 484G) (Prerequisite: EPY 429G and lab)
ESE	421G	Teaching Social Science (2)
ESE	484G	Secondary Practicum (2) (Corequisite: ESE 404G)
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: Completion of SPE 500 and all coursework listed above)
*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 400G or 500 levels.

**44 Semester Hours Required for this Degree**

**Undergraduate Requirements:**

Students must have earned an undergraduate degree in ONE of the following areas: history, geography, political science, psychology, sociology or economics OR;

Complete 32 semester hours of undergraduate course work with a minimum of 19 hours at the 300-400 levels with any combination of courses from areas covered by the certification.

For the degree in the composite field of social sciences, additional undergraduate course work must be taken to remove undergraduate course deficiencies in related teaching fields. Deficiencies are determined with a formal evaluation of the students' transcripts.

Students must have the approval of their advisers in professional studies BEFORE registering for undergraduate course work required to meet the undergraduate requirements/deficiencies specified for the degree.

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Students must meet admission requirements for the Alternative Fifth-Year Teacher Certification Program.

**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) (Prerequisite: EED 342)
EFD	500	Research in Education (3)
SPE	517	Preferred Instructional Practice for Elementary Students with Disabilities of Learning and Behavior (3) (Prerequisites: SPE 500 and 516)
SPE	522	Assessment of Special Populations (3)
SPE	554	Medical, Legal, and Ethical Aspects of SPE (3)
SPE	583	Practicum in Disabilities of Learning and Behavior (3) (Prerequisites: SPE 516 and SPE 517)
*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 (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 (18 semester hours):**

SPE	505	Functional Communication (3)
SPE	516	Characteristics of Students with Mild to Moderate Disabilities (3) (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) (Prerequisite: SPE 500)
SPE	561	Research and Practices of Severe Disabilities at the Elementary 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 must 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)

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Students must meet admission requirements for the Alternative Fifth-Year Teacher Certification Program.

**ALTERNATIVE FIFTH-YEAR PROGRAM  
MASTER OF SCIENCE IN EDUCATION  
MAJOR: SPECIAL EDUCATION/COLLABORATIVE TEACHER (6-12)**

**Basic Requirements (17-20 semester hours):**

EFD	500	Research in Education (3)
ESE	567	Improvement of Reading in Secondary Schools (2) (Prerequisite: ESE 383)
SPE	518	Preferred Instructional Practices for Secondary Students with Disabilities of Learning and Behavior (3) (Prerequisites: SPE 500 and 516)
SPE	522	Assessment of Special Populations (3)
SPE	554	Medical, Legal, and Ethical Aspects of SPE (3)
SPE	583	Practicum in Disabilities of Learning and Behavior (3) (Prerequisites: SPE 516 and SPE 518)
*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 (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 (18 semester hours):**

SPE	505	Functional Communication (3)
SPE	516	Characteristics of Students with Mild to Moderate Disabilities (3) (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) (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 must be scheduled during the last semester of course work.

**37-41\* 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)

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Students must meet admission requirements for the Alternative Fifth-Year Teacher Certification Program.

**ALTERNATIVE FIFTH-YEAR PROGRAM  
MASTER OF ARTS  
MAJOR: MUSIC/ INSTRUMENTAL (P-12)**

**Basic Requirements (16 semester hours):**

- MU 511 Research Methods (3)  
 MU 512 Seminar in Instrumental Music (3)

Select *one* from the following: (3 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)

Select *one* from the following: (3 semester hours)

- MU 520 Music Theory: Style Analysis (3)  
 MU 521 Music Theory: Style Analysis (3)

Select from among the following, for a total of 4 semester hours:

- MU 480G Graduate Ensemble (1)  
 MU 481G Graduate Ensemble (1)  
 MU 519 Advanced Conducting (3)  
 MU 534 Individual Applied Music (2)  
 MU 535 Individual Applied Music (2)

**Required Music and Education Courses (25 semester hours):**

- EFD 515 Seminar in Schools and Learning (2)  
 EFD 560 Psychological Principles of Learning (3)  
 EPY 429G Developmental Psychology (Lab Required) (2)  
 ESE 567 Improvement of Reading in Secondary Schools (2)  
 MU 442G Measurement and Evaluation in Music (3)  
 MU 471G Elementary Music Materials and Methods (3)  
 MU 482G Secondary Instrumental Music Materials and Methods (3)  
 MU 587 Internship in Music P-12 (4)  
 (50% time at the elementary and 50% time at the secondary level; offered in 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.

**\*Music Elective: 0 to 3 semester hours:**

By faculty advisement, 3 graduate semester hours in music numbered at the 400G or 500 level.

**41 Semester Hours Required for this Degree**

\* \* \*

**Undergraduate Requirements:**

59 semester hours of course work from the area of music to include: 18 semester hours of music theory, 6 semester hours of music history, 5 semester hours of conducting, and 5 semester hours of class applied music (instrumental techniques classes), and 25 additional semester hours of music courses. These must include courses in Major Applied instruction and include evidence of a degree level recital performance. Of the total, at least 19 semester hours must be at the 300-400 level.

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Students must meet admission requirements for the Alternative Fifth-Year Teacher Certification Program.

**ALTERNATIVE FIFTH-YEAR PROGRAM  
MASTER OF ARTS  
MAJOR: MUSIC/ VOCAL/CHORAL (P-12)**

**Basic Requirements (16 semester hours):**

- MU 511 Research Methods (3)  
 MU 509 Seminar in Choral Music (3)

Select *one* from the following: (3 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)

Select *one* from the following: (3 semester hours)

- MU 520 Music Theory: Style Analysis (3)  
 MU 521 Music Theory: Style Analysis (3)

Select from among the following, for a total of 4 semester hours:

- MU 480G Graduate Ensemble (1)  
 MU 481G Graduate Ensemble (1)  
 MU 519 Advanced Conducting (3)  
 MU 534 Individual Applied Music (2)  
 MU 535 Individual Applied Music (2)

**Required Music and Education Courses (25 semester hours):**

- EFD 515 Seminar in Schools and Learning (2)  
 EFD 560 Psychological Principles of Learning (3)  
 EPY 429G Developmental Psychology (Lab Required) (2)  
 ESE 567 Improvement of Reading in Secondary Schools (2)  
 MU 442G Measurement and Evaluation in Music (3)  
 MU 471G Elementary Music Materials and Methods (3)  
 MU 483G Secondary Vocal Music Materials and Methods (3)  
 MU 587 Internship in Music P-12 (4)  
 (50% time at the elementary and 50% time at the secondary level; offered in 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.



**\*Music Elective: 0 to 3 semester hours:**

By faculty advisement, 3 graduate semester hours in music numbered at the 400G or 500 level.

**41 Semester Hours Required for this Degree**

\* \* \*

**Undergraduate Requirements:**

59 semester hours of course work from the area of music to include: 18 semester hours of music theory, 6 semester hours of music history, 5 semester hours of conducting, and 5 semester hours of class applied music (vocal techniques classes), and 25 additional semester hours of music courses. These must include courses in Major Applied instruction and include evidence of a degree level recital performance. Of the total, at least 19 semester hours must be at the 300-400 level.

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Students must meet admission requirements for the Alternative Fifth-Year Teacher Certification Program.

**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.
- 521. Program Development (3).** Examination of program organization and implementation of the functions and responsibilities of counselors in various field settings.
- 523. Multicultural Issues (3).** Integrative study of the societal changes impacting the practice of counseling; cross-cultural counseling and pluralistic trends emphasized.
- 525. Skills Development (3).** Prerequisites: ECG 510 and ECG 553. The practical application of selected skills and strategies with a focus on the interview process.
- 526. 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.
- 540. 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, multi-axial assessment, DSM diagnosis, and treatment of the disorders.
- 545. 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.
- 553. Theory and Process (3).** An examination of the major counseling theories and related techniques and an overview of the counseling relationship.
- 556. Career Development (3).** An introduction to career development theories and concepts and related resources and practices for career planning and decision-making.
- 558. Counseling Children/Adolescents (3).** Development of programs, practices, and techniques which address the unique needs of children and youth through college age.
- 573. 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.

578. **Issues in Student Personnel (3).** Prerequisite: ECG 573. Study of current issues and trends in the development and implementation of student personnel programs.
585. **Counseling Practicum (3).** Prerequisites: ECG 510, ECG 525, ECG 553 and ECG 591. Supervised observation and application of counseling concepts, principles, and techniques in field settings.
588. **Crisis Counseling (3).** Basic concepts and steps of crisis intervention with a focus on the background, dynamics, and strategies related to specific crises.
591. **Group Procedures in Counseling (3).** Prerequisites: ECG 510 and 553. Principles of group counseling, ethical considerations and dynamics of group interaction. Implement theories and techniques in group therapy sessions. Multicultural problems included.
594. **Internship in School Counseling (3).** Prerequisites: Permission of the instructor; ECG 585. Must be completed at JSU. A 300 clock hour supervised field experience in an appropriate K-12 school setting.
596. **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.
597. **Internship in Student Personnel (3).** Prerequisites: Permission of the instructor; ECG 585. A 300 clock hour supervised field experience in an appropriate job setting.
- 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

### 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.
- 512. Practicum in Early Childhood Special Education (3).** Practicum experiences working with the young handicapped child, ages infancy to eight.
- 513. Individualization of Education for Young Children (3).** (Permission of instructor required.) Methods and procedures for individualizing instruction.
- 530. Designing Programs for Young Children (3).** (Not open to students enrolled in Ed.S. programs.) Theory, school design, scheduling, and equipment. A practicum is required.
- 531. Implementation and Administration of Early Childhood Programs (3).** (Permission of instructor required.) Supervision and implementation of programming of early childhood programs with emphasis on communication with professionals and lay-citizensry of goals and purposes of early childhood programs.
- 532. Issues & Trends in Early Childhood Education (3).** (Permission of instructor required.) Current issues and trends in early childhood education.
- 533. 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.)
- 538. 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.)

539. **Teaching Writing in Early Childhood Education (3).** Theories, methods, and current research involving writing instruction; emphasis on P-3.
540. **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.
570. **Internship in Early Childhood Education (3).** Prerequisite: Admission to Alternative Fifth-Year Teacher Certification Program. Scheduled at end of program; offered Fall and Spring semesters. 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.
- 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).** Prerequisite: ECE 631. 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.)

## 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.
556. **Management of Student Services (3).** Procedures and policy development with regard to student services and school management.
562. **School Administration (3).** Analysis of basic concepts of school administration with special emphasis on leadership, management, and administration.
563. **School Finance (3).** Procedures and practices in educational finance and budgeting at local, state, and national levels.

- 564. Law and Politics of Education (3).** Legal and political structures under which public schools function with emphasis on school-community interaction and student services.
- 566. Internship in Educational Administration (3).** Supervised field-based experience; observation, study, and analysis of the administration of educational programs in selected schools; requires a minimum of 300 clock hours of supervised internship. Offered fall and spring semesters. Should be scheduled at the end of a student's program. A student must be in the last or next-to-last semester of study to register for this course. 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).** Prerequisite: EAD 610. Development of a practical problem-solving process in relation to the administration of schools and school systems. This course culminates in a public presentation of a school-based problem-solving project. Course must be scheduled near the end of a student's program.
- 682. Problems in Educational Administration II (3).** Prerequisite: EAD 681. 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.

## 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).** Prerequisite: EFD 501 or equivalent. 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.)

## 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.)
- 541. Teaching Mathematics (3).** Advanced course in materials and teaching techniques for improving math concepts and skills.
- 542. Teaching Reading (3).** Prerequisite: EED 342. This advanced course in reading examines the research base, theories, and current issues in reading as well as instructional methods and practices, effective strategy instruction, and assessment. Classroom observations required for the 5th year and/or non-teaching master's students. (EED 542 is cross-listed with RDG 542 and only one course may be counted for credit.)
- 543. Teaching Social Studies (3).** Advanced course in materials and methods of teaching social studies emphasizing individual research projects.
- 544. Teaching Science (3).** Problems in development of science program in the elementary school; facilitating children's learning of science – its concepts and attitudes.

- 545. 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.)
- 547. Diagnosing Reading Abilities (3).** Prerequisite: Three semester hours of graduate study in reading or language arts. Research in diagnosing reading abilities, handling current diagnostic tools, and construction of evaluation of instruments.
- 549. 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.)
- 569. 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.
- 580. Internship (3).** Prerequisite: Admission to Alternative Teacher Fifth-Year Certification Program. 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. 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.
- 510. Proactive Orientation for Teachers (3).** Orientation to organizational theory, site-based management, leadership skills, decision-making skills, and problem-solving strategies in secondary schools.
- 515. Seminar in Schools and Learning (2).** Survey of the psychological, sociological, philosophical foundations of American education.
- 521. Independent Research (1).** Prerequisite: Permission of the instructor and approval of the department head.
- 522. Independent Research (2).** Prerequisite: Permission of the instructor and approval of the department head.
- 523. Independent Research (3).** Prerequisite: Permission of the instructor and approval of the department head.
- 531. Philosophy of Education (3).** Contemporary philosophies of education, their historical development, and the beliefs tantamount to each.
- 532. Social Foundations of Education (3).** Analysis of current issues and trends throughout society with implications for education.
- 552. 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.
- 560. Psychological Principles of Learning (3).** Advanced study of nature of knowledge, learning, and learner with emphasis on the teaching-learning process.
- 594. 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. Must be taken after all basic and concentration requirements have been successfully completed.
- 682. Problems in Education II (3).** Prerequisite: EFD 681. Must be taken in the last semester of enrollment. Continuation of identification and analysis of problems specific to the current educational environment with emphasis on development of innovative and unique solutions.

## HEALTH AND PHYSICAL EDUCATION COURSES

### Health Education

#### Prefix HLT

- 545. Stress Management Strategies for the HPE Teacher (3).** This course is intended to help the HPE teacher develop knowledge and skills relative to stress management. Emphasis is placed on stress responses and relaxation technique strategies. (HLT 545 is cross-listed with PE 545 and only one course may be counted for credit.)

## PHYSICAL EDUCATION

### Prefix PE

- 409G. Methods of Teaching PE, P-5 (3).** Prerequisite: Admission to alternative fifth-year teacher certification program. Methods and techniques of teaching P-5 physical education.
- 410G. Methods of Teaching PE, 6-12 (3).** Prerequisite: Admission to alternative fifth-year teacher certification program. Methods and techniques of teaching 6-12 physical education.
- 451G. Tests and Measurements in PE (3).** Prerequisite: Admission to Alternative Fifth-Year Teacher Certification Program. Techniques of test evaluation, administration, and interpretations; emphasis on physical fitness, body mechanics, sports skills, and knowledge tests.
- 462G. Physical Education Program (3).** Prerequisite: Admission to Alternative Fifth-Year Teacher Certification Program. Study of curriculum, teaching methods, skills, and the organization and administration of PE programs.

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.
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.
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.
540. **Physical Education and Law (3).** Legal implications of those involved with physical education, recreation, and athletic programs.
545. **Stress Management Strategies for the HPE Teacher (3).** This course is intended to help the HPE teacher develop knowledge and skills relative to stress management. Emphasis is placed on stress responses and relaxation technique strategies. (HLT 545 is cross-listed with PE 545 and only one course may be counted for credit.)
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.
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.
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.
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 well-being during aging.
587. **Internship in PE, P-12 (3).** Prerequisites: Admission to Alternative Fifth-Year Teacher Certification: Program; EPY 429G. 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. Scheduled at end of program; offered Fall and Spring.
596. **Independent Study in PE (1).** Prerequisite: Permission of the instructor and approval of the department head. Opportunity to explore a particular area of personal interest in PE.
597. **Independent Study in PE (2).** Prerequisite: Permission of the instructor and approval of the department head. Opportunity to explore a particular area of personal interest in PE.
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.

## LIBRARY MEDIA COURSES

### Prefix EIM

- 410G. **The Information Age Classroom (3).** Prerequisite: Admission to the Alternative Fifth-Year Teacher Certification Program. Benefits, application, and production of advanced academic technology to the information classroom.
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).** Prerequisite: EIM 503 or permission of the instructor. Application of current and emerging instructional technology in the information age classroom.
- 505. Curriculum Integration of Technology (3).** Prerequisites: EIM 503 and 504 or permission of the instructor. 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, multimedia devices, and courseware authoring software.
- 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).** Prerequisite: Permission of the instructor. Directed experience in performing various services in a school library media center. Must be completed at JSU.
- 516. Practicum in Media Services (3).** Prerequisites: EIM 515 and permission of the instructor. Directed experience in performing various services in a school library media center.
- 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.

**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.)
- 542. Teaching Reading (3).** Prerequisite: EED 342. This advanced course in reading examines the research base, theories, and current issues in reading as well as instructional methods and practices, effective strategy instruction, and assessment. Classroom observations required for the 5th year and/or non-teaching master's students. (RDG 542 is cross-listed with EED 542 and only one course may be counted for credit.)
- 545. 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.)
- 567. Improvement of Reading in Secondary Schools (2).** Teaching reading in subject matter areas and developmental reading for high school students. (RDG 567 is cross-listed with ESE 567 and only one course may be counted for credit.)
- 572. Assessment and Diagnosis in Reading (3).** Prerequisite: EED 542 or RDG 542. 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.
- 573. Intervention Strategies for Reading Instruction (3).** Prerequisite: EED 542 or RDG 542. 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.
- 574. Practicum for Teachers of Reading (2).** Prerequisite: EED 542 or RDG 542. 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.

- 575. Internship in the Organization and Supervision of Reading Programs (2).** Prerequisite: EED 542 or RDG 542. 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

- 404G. Effective Teaching (2).** Prerequisite: EPY 429G and lab. Corequisite: ESE 484G. Blends theory and practice. Materials and methods of teaching at the secondary level.
- 420G. Teaching Mathematics (2).** Materials and methods of teaching mathematics at the secondary level. (Available in Fall semesters only.)
- 421G. Teaching Social Science (2).** Materials and methods of teaching history and the social sciences at the secondary level. (Available in Fall and Spring semesters only.)
- 422G. Teaching Language Arts (2).** Materials and methods of teaching the language arts at the secondary level. (Available in Fall and Spring semesters only.)
- 423G. Secondary School Science (2).** Materials and methods of teaching the natural and physical sciences at the secondary level. (Available in Fall semesters only.)
- 484G. Secondary Practicum (2).** Prerequisite: EPY 429G and lab. Corequisite: ESE 404G. An 85 clock-hour, supervised Level III clinical experience in Grades 6-12.
- 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).** Prerequisites: Admission to Alternative Fifth-Year Teacher Certification Program; EFD 500, EFD 515, EFD 560, EIM 410G, EPY 429G and lab, EPY 442G, ESE 404G, ESE 484G, SPE 500, and the methods course applicable to the teaching field (ESE 420G, 421G, 422G, or 423G.) Supervised teaching in grades 6-12; full-time assignment for a semester in a public school. Scheduled at end of program; offered Fall and Spring.

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 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. (Offered Spring, May, and Summer.)
505. **Functional Communication (3).** Developmental approach to acquisition of language with emphasis on educational intervention for specific linguistic anomalies.
516. **Characteristics of Students with Mild to Moderate Disabilities (3).** Prerequisite: SPE 500. 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.
517. **Preferred Instructional Practices for Elementary Students with Disabilities of Learning and Behavior (3).** Prerequisites: SPE 500 and SPE 516. Designed to familiarize students with assessment instruments, perspectives, therapeutic techniques, and curriculum materials associated with teaching students with disabilities of learning and behavior.
518. **Preferred Instructional Practices for Secondary Students with Disabilities of Learning and Behavior (3).** Prerequisites: SPE 500 and SPE 516. Designed to familiarize students with assessment instruments, perspectives, therapeutic techniques, and curriculum materials associated with teaching students with disabilities of learning and behavior.
522. **Assessment of Special Populations (3).** Introduction to the evaluation tools used in the assessment of exceptional children.
533. **Applying Behavior Analysis to Special Populations (3).** Practical approach to applied behavior management through demonstration and application of frequently employed models of classroom intervention.



- 546. Internship in Nontraditional Severe Disabilities (3).** Prerequisites: Approval for professional semester. 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. Admission to and completion of the majority of the Alternative Collaborative Teacher Program. Must be scheduled during the last semester of course work. Offered Fall and Spring.
- 554. 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.
- 560. Characteristics of Severe Disabilities (3).** Prerequisite: SPE 500 or permission of instructor. Broad overview of a typical development and characteristics of low incidence and severe disabilities; focus on students with low incidence and severe physical, mental, and medical developmental disabilities at the graduate level.
- 561. Research and Practices of Severe Disabilities, Elementary Level (3).** Prerequisite: SPE 560 or permission of instructor. 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.
- 562. Research and Practices of Severe Disabilities, Secondary Level (3).** Prerequisite: SPE 560 or permission of instructor. 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.
- 583. Practicum in Disabilities of Learning and Behavior (3).** Prerequisites: SPE 516 and SPE 517 or SPE 518. Designed to provide practicum/internship application of previously learned skills in assessing and teaching students with disabilities of learning and behavior.

**586. Practicum in Severe Disabilities (3).** Prerequisites: SPE 560 and SPE 561 or SPE 562. 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.

**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 Institute for Emergency Preparedness (IEP) offers courses leading to the Master of Science in Emergency Management. This degree balances conceptual knowledge in emergency management with skill acquisition in crisis management, hazard assessment and other analytic and management skills.

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 the graduate certificate, an entry will be made on the student's transcript.

The IEP offers courses for a concentration in emergency management with the Master of Public Administration degree program and supporting courses for the Master of Arts degree with a major in liberal studies. For admission requirements and programs of study for the Master of Public Administration see pages 258-259 in the *Bulletin* and for the Master of Arts with a major in liberal studies, see pages 225 in the *Bulletin* or see the *Bulletin* online at <http://www.jsu.edu/depart/graduate>.

**All coursework for the MS, MPA, or MA degrees, including the emergency management certification coursework, must be completed within six years.**

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

Applicants must possess an undergraduate degree from an institution accredited by the appropriate regional accrediting association. A particular undergraduate major is not specified for admission to the program.

Applicants for the Master of Science with a major in emergency management must submit:

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 Record Examination (GRE) or the Miller Analogies Test (MAT).
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

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.

### UNCONDITIONAL ADMISSION

To obtain unconditional admission into the Master of Science with a major in emergency management, students must meet one of the following formula requirements:

450 times the undergraduate grade-point average (GPA) plus the total score of the verbal and quantitative sections of the General Test of the GRE is equal to or greater than a total of 2250 points;

OR

15 times the undergraduate GPA plus the MAT raw 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 completion of the initial undergraduate degree plus the total score of the verbal and quantitative measures of the General Test of the GRE is equal to or greater than a total of 2250 points;

OR

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

### CONDITIONAL ADMISSION

Any applicant failing to meet the requirement for unconditional admission may be conditionally admitted with the recommendation of the graduate faculty in the applicant's major and approval of the Dean of the College of Graduate Studies. Applicants who are granted conditional admission must achieve a GPA of at least 3.0 on the first twelve graduate hours attempted within a twelve-month time frame. Failure to meet these conditions will result in the student being dropped from graduate studies.

### MINIMUM REQUIREMENTS FOR THE MS DEGREE

A total of 30 graduate semester hours are required for the degree with 21 required hours of emergency management courses and 9 hours of approved emergency management electives. The student's faculty advisor must approve courses taken in other fields.

#### MASTER OF SCIENCE MAJOR: EMERGENCY MANAGEMENT

##### Required emergency management courses: 21 hours

EM	505	Foundations of Emergency Management (3)
EM	525	Disaster Recovery (3)
EM	530	Research Methods in Emergency Management (3)
EM	540	Hazard Mitigation (3)
EM	545	Emergency Preparedness (3)
EM	555	Disaster Response (3)
EM	590	Capstone in Emergency Management (3)

##### Elective courses, to be chosen according to student interest and career objectives: 9 hours

EM	515	Legal Aspects of Emergency Management (3)
EM	535	Terrorism and Homeland Security (3)
EM	548	Vulnerability and Capacity-Building (3)
EM	565	Management Systems in Disaster (3)
EM	568	Crisis Management for Business and Industry (3)
EM	575	Health and Medical Aspects of Emergency Management (3)
EM	595	Directed Studies (3)
EM	596	Internship (3)
EM	598	Emergency Management Leadership and Organizational Behavior (3)

#### 30 Semester Hours Required for this Degree

#### ADMISSION REQUIREMENTS FOR A GRADUATE CERTIFICATE IN EMERGENCY MANAGEMENT

Applicants must possess an undergraduate degree from an institution accredited by the appropriate regional accrediting association. A particular undergraduate major is not specified for admission to this program.

Applicants for the graduate certificate in emergency management must submit:

1. Completed JSU application.
2. Non-refundable \$20.00 application processing fee.

3. Official transcript from the postsecondary institution awarding the bachelor's degree. (Students who have previously attended JSU do not need to request a transcript from the University. The College of Graduate Studies will automatically receive an official JSU transcript once a student has filed an application for admission to graduate studies.)
4. 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.

### **MINIMUM REQUIREMENTS FOR A GRADUATE CERTIFICATE IN EMERGENCY MANAGEMENT**

The student must complete the 15 semester hours of required emergency management concentration courses listed below. A student who completes the graduate certificate may apply the 15 hours of credit toward the Master of Science with a major in emergency management, the Master of Public Administration with a concentration in emergency management, or the Master of Arts with a major in liberal studies.

#### **Required courses for the graduate certificate in emergency management: 15 hours**

EM	505	Foundations of Emergency Management (3)
EM	515	Legal Aspects of Emergency Management (3)
EM	525	Disaster Recovery (3)
EM	535	Terrorism and Homeland Security (3)
EM	590	Capstone in Emergency Management (3)

### **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 MPA 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	Foundations of Emergency Management (3)
EM	515	Legal Aspects of Emergency Management (3)
EM	525	Disaster Recovery (3)
EM	535	Terrorism and Homeland Security (3)
EM	590	Capstone in 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 on pages 207-208.

For course descriptions of the required public administration courses, see Public Administration, page 258.

## EMERGENCY MANAGEMENT COURSES

### Prefix EM

- 505. **Foundations of 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. **Disaster 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.
- 530. **Research Methods in Emergency Management (3).** Comprehensive coverage of major analytical and statistical tools used in emergency management program administration.
- 535. **Terrorism and Homeland Security (3).** Contemporary thinking and current initiatives against domestic terrorism including nuclear, biological, chemical and other hazards.
- 540. **Hazard Mitigation (3).** Prerequisite: EM 505. Mitigation concepts, implementation approaches, and planning.

545. **Emergency Preparedness (3).** Prerequisite: EM 505. Preparedness frameworks and strategies; techniques of emergency operations planning, exercise design and evaluation, and public education.
548. **Vulnerability and Capacity-Building (3).** Prerequisite: EM 505. Individual, social, economic and policy dimensions of vulnerability and client needs for disaster; service delivery strategies, coordination models, resource management and capacity building for nonprofit disaster relief organizations.
555. **Disaster Response (3).** Prerequisite: EM 505. Context of disaster response, response functions, assessment, resource mobilization and adjutication, and emergency operations center (EOC) operations.
565. **Management Systems in Disaster (3).** Prerequisite: EM 505; EM 525, and EM 555. Integration of emergency management functions, response structures, technology use, information management, and decision-making.
568. **Crisis Management for Business and Industry (3).** Prerequisite: EM 505. Contingency planning, business impact analysis, business resumption processes, risk/crisis communication and management, disaster recovery and organizational continuity.
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.
590. **Capstone in Emergency Management (3).** Prerequisites: EM 505, EM 515, EM 525. Integration and synthesis of theory and practice for emergency management.
595. **Directed Studies in Emergency Management (3).** Prerequisites: Permission of the instructor and approval of the department head.
596. **Emergency Management Internship (3).** Prerequisites: Permission of the instructor and approval of the department head.
598. **Emergency Management Leadership and Organizational Behavior (3).** Prerequisite: EM 505. Leadership and organizational theory for emergency management; conflict management, use of power, group dynamics, and team performance.



## 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 liberal studies. For students majoring in secondary education with a teaching field in 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 in approved English courses including three semester hours in Shakespeare at either the undergraduate or graduate level.

**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, and six hours of thesis. See "Thesis Option and Procedure" on page 46.

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. Theory of Composition (3).** Study of current theory and practice in teaching composition in the secondary education (grades 7-12). Development and understanding of the task of teaching composition with practical strategies for accomplishing this task.
- 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).** Prerequisite: Admission to JSU Writing Project. (EH 551 must be taken in conjunction with EH 552.) Intensive study of theory and methodology of composition and composition instruction.
552. **Summer Institute Practicum (3).** Prerequisite: Admission to JSU Writing Project. (EH 552 must be taken in conjunction with EH 551.) Extensive writing and critiquing, with research and presentations on writing.
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 46.

## ENVIRONMENTAL SCIENCE MANAGEMENT

The Department of Physical and Earth Sciences offers core courses and an area of concentration in environmental science management within the Master of Public Administration degree program and supporting courses for the Master of Arts with a major in liberal studies. 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 MPA DEGREE WITH A CONCENTRATION IN ENVIRONMENTAL SCIENCE MANAGEMENT

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**

ESC	490G	Environmental Auditing (3)
ESC	495G	Risk Analysis (3)
ESC	510	Environmental Laws and Regulations (3)
ESC	535	Integrated Waste Management (3)
SAM	510	Introduction to Spatial 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 on pages 170 and 171.

For course descriptions of the required public administration courses, see page 258 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.

Applicants for the graduate certificate in environmental science management must submit:

1. Completed JSU application.
2. Non-refundable \$20.00 application processing fee.
3. Official transcript from the postsecondary institution awarding the bachelor's degree. (Students who have previously attended JSU do not need to request a transcript from the University. The College of Graduate Studies will automatically receive a JSU transcript once a student has filed an application for admission to graduate studies.)
4. 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.

### **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 below. 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.

**Required courses for the graduate certificate in environmental science management: 15 hours**

ESC	490G	Environmental Auditing (3)
ESC	495G	Risk Analysis (3)
ESC	510	Environmental Laws and Regulations (3)
ESC	535	Integrated Waste Management (3)
SAM	510	Introduction to Spatial Analysis (3)

**ENVIRONMENTAL SCIENCE MANAGEMENT COURSES**

**Prefix ESC**

- 490G. Environmental Auditing (3).** Prerequisite: ESC 500 or its equivalent. 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.
- 495G. Risk Analysis (3).** Prerequisite: ESC 500 or its equivalent. 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.
- 496G. Watershed Management (3).** Prerequisites: ESC 300 or ESC 500, and GY307 or SAM 510 or their equivalents. Fundamental principles of the hydrologic processes occurring in watersheds. The material will cover the hydrologic impacts of management activities on watersheds such as: urbanization, farming, forestry, and recreational use. Case studies of watershed management techniques will be used to illustrate problems confronting our nation waters. Applications of GIS-based techniques will be covered as a tool available for managers.
- 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.

- 510. Environmental Laws and Regulations (3).** Prerequisite: ESC 500 or its equivalent. 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.
- 535. Integrated Waste Management (3).** Prerequisite: ESC 500 or its equivalent. 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.
- 541. Groundwater Hydrology (3).** Prerequisite: ESC 500 or its equivalent. Basic principles of groundwater hydrology and transport of contaminants in groundwater systems; groundwater system characteristics; hydrologic properties of earth materials.
- 565. Hazardous Waste Remediation (3).** Prerequisite: ESC 500 or its equivalent. 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.
- 591. Directed Research (3).** Prerequisites: Permission of the instructor and approval of the department head and ESC 500 or its equivalent. In depth study of selected topic(s).



## GEOGRAPHY

The Department of Physical and Earth Sciences offers supporting courses for the Master of Arts with a major in liberal 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.
- 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. 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. Directed Studies (3)(3).** (Grade of Pass or Fail only.) Prerequisites: Permission of the instructor and approval of the department head.
- 590. 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 liberal 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 46.

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 1865 (3).** Pre-colonial civilization through the Civil War. Emphasis is on the social, cultural, economic, and political development of the South as a region and the South's part in building the United States.
- 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).** Prerequisites: HY 201, 202. 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.
- 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.)
- 469G. Age of Churchill (3).** An examination of the late Victorian-twentieth century British and world events through the career of Winston S. Churchill.
- 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-Columbian 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 pre-War 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 46.

## LIBERAL STUDIES

The Master of Arts with a major in liberal 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; emergency management; English; environmental science management; geography; history; mathematics; music; political science; psychology, and spatial analysis and management.

### ADMISSION REQUIREMENTS FOR THE MASTER OF ARTS WITH A MAJOR IN LIBERAL 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.

### LIBERAL STUDIES COURSES

Course descriptions are located in various programs listed alphabetically in this *Bulletin*.

## 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 liberal 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, Abstract Algebra I.

### 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 451G, 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 46.

### MATHEMATICS COURSES

#### Prefix MS

- 403G. Vector Analysis (3).** Prerequisite: MS 241. Algebra and calculus of vectors, Stokes theorem, and divergence theorem; applications to geometry, mass potential functions, electricity, and fluid flow.
- 404G. Mathematical Statistics II (3).** Prerequisite: MS 241 and 304. 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.



- 416G. Advanced Calculus II (3).** Prerequisite: MS 415. Selected topics from advanced calculus; elements of partial differentiation including the general theorems, Jacobians; topics on theory of integration.
- 423G. Survey of Geometries (3).** Prerequisites: MS 142, and either MS 323 (or equivalent) or permission of the instructor. Selected topics from advanced Euclidean geometry, finite geometries, non-Euclidean geometry, and other geometries.
- 451G. Functions of a Complex Variable (3).** Prerequisite: MS 241. Fundamental operations with complex numbers, differentiation and integration theorems, mapping, series, and residues.
- 480G. Introductory Topology (3).** Prerequisite: MS 415. Basic topological concepts to include topological spaces, mapping, compactness, connectedness, and separation axioms.
- 484G. Partial Differential Equations (3).** Prerequisites: MS 241 and 344. Standard methods of solution; separation of variables, Fourier Series, Laplace Transforms; selected applications.
- 504. Applied Statistical Methods (3).** Prerequisite: Undergraduate minor in mathematics or permission of instructor. 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.
- 505. Basic Logic and Set Theory (3).** Prerequisite: MS 300 or 415 or 441. 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.
- 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).** Prerequisite: MS 515. Selected topics from real analysis emphasizing Lebesgue integration, sequences and series of functions.

- 517. Introduction to Functional Analysis (3).** Prerequisites: MS 352 and MS 415. 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.
- 523. Topics in Geometry for Teachers (3).** Prerequisite: Undergraduate minor in mathematics. Classical theorems, ideas, and constructions of Euclidean and non-Euclidean geometry in theorems of Ceva, Menelaus, Pappus, and Feuerbach; homothetic transformations, inversion, harmonic sets of points, and cevians.
- 526. Topics in Analytic Geometry for Teachers (3).** Prerequisite: Undergraduate minor in mathematics. Applications of Euclidean and homogeneous coordinates, geometric transformations, trigonometric, and vector techniques to geometric problems.
- 528. Theory of Equations and Functions for Teachers (3).** Prerequisite: Undergraduate minor in mathematics. 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.
- 530. Foundations in Calculus for Teachers (3).** Prerequisite: Undergraduate minor in mathematics. 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.)
- 533. Topics in Modern Analysis for Teachers (3).** Prerequisite: Undergraduate minor in mathematics. 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.)
- 535. Topics in Finite Mathematics for Teachers (3).** Prerequisite: Undergraduate minor in mathematics. 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.)

537. **Foundations in Algebra for the Secondary Teacher (3).** Prerequisite: MS 441 or equivalent. Concepts of high school algebra from the perspective of ring theory.
541. **Abstract Algebra I (3).** Prerequisite: MS 441 or equivalent. General group theory including cyclic groups and permutation groups, homomorphism and isomorphism theorems.
542. **Abstract Algebra II (3).** Prerequisite: MS 541. Theory of rings, ideals, fields, and integral domains.
549. **Selected Topics in Mathematics for the Secondary Teacher (3).** Prerequisite: Undergraduate minor in mathematics or permission of instructor. Selected topics suitable for the secondary teacher; problem solving; secondary school mathematics from an advanced standpoint.
552. **Linear Algebra (3).** Prerequisites: MS 352 and MS 441 or equivalent. 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.
591. **Seminar in Algebra (3) (3).** Prerequisites: MS 541 and 542 or permission of instructor. 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.
595. **Seminar in Analysis (3) (3).** Prerequisites: MS 515 and 516 or permission of instructor. 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.
598. **Directed Readings (3) (3).** Prerequisites: Students must have two courses in the topical area chosen and approval by the faculty advisor in mathematics and the instructor. Algebra, analysis, geometry, and topology.
599. **Thesis (3) (3).** (Grade of Pass or Fail only.) Prerequisite: Approval of Application for Thesis Option. See "Thesis Option and Procedures on page 46.

## 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 liberal 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 emphases.

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 must complete a qualifying examination given by the Music Department. The examination requires students to demonstrate competence in the theory of music and practical keyboard skills, knowledge of the history and literature of music and an applied music audition.

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. Applicants who do not currently possess a teaching certificate who wish to attain teacher licensure may elect to pursue the Alternative Fifth-Year Program, leading to the Master of Arts with a concentration in either instrumental or vocal/choral music. Completion of this program leads to eligibility for fifth-year (master's) teacher certification in the appropriate concentration. Students must meet admission requirements for the Alternative Fifth-Year Certification Program, which is administered by the College of Education.

### MINIMUM REQUIREMENTS FOR THE MASTER OF ARTS WITH A MAJOR IN MUSIC AND A CONCENTRATION IN GENERAL MUSIC

#### Required Music Courses

All three Master of Arts programs (Master of Arts with a Major in Music: General Music emphasis; Master of Arts with a Major in Music: Music Education emphasis in Instrumental or Vocal/Choral, P-12; and the Alternative Fifth-Year Program Master of Arts with a Major in Music: Music Education emphasis in Instrumental or Vocal/Choral (P-12)) require successful completion of the following group of courses:

**Required Music Courses: 16 semester hours**

MU 511 Research Methods (3)

Select *one* from the following:

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)

Select *one* from the following:

MU 509 Seminar in Choral Music (3)

MU 512 Seminar in Instrumental Music (3)

Select *one* from the following:

MU 520 Music Theory: Style Analysis (3)

MU 521 Music Theory: Style Analysis (3)

Select from among the following, for a total of 4 semester hours:

MU 480G Graduate Ensemble (1)

MU 481G Graduate Ensemble (1)

MU 519 Advanced Conducting (3)

MU 534 Individual Applied Music (2)

MU 535 Individual Applied Music (2)

**Concentration in General Music**

**Non-Thesis Option:** Total of 32 semester hours. The student must complete 16 semester hours in required music courses (described on pages 233 or 235) and 16 semester hours in approved music electives by advisement.

**Thesis Option:** Total of 32 semester hours. The student must complete 16 semester hours in required music courses (described on pages 234 or 236) and 10 semester hours in approved music electives by advisement, and 6 hours of thesis. See “Thesis Option and Procedures” on page 46.

**Concentration in Music Education**

**Instrumental or Vocal/Choral Emphasis:** Total of 32 semester hours. The student must complete 16 semester hours in required music courses (described above), and the following courses in music and education (16 hours, to include four to seven hours of approved music electives by advisement, depending upon whether the special education requirement has been previously satisfied):

EFD 502 Curriculum Development (3)

EFD 560 Psychological Principles of Learning (3)

- SPE 500 Survey Course in Special Education (3)  
Required for students who have not previously satisfied the special education at the undergraduate or graduate level. If this requirement has been met, 3 hours of music electives are required.
- MU 442G Measurement and Evaluation of Music (3)

**NOTE:**

Completion of the M.A. in Music with a concentration in Music Education/Instrumental or Music Education/Vocal-Choral program leads to eligibility for master's level teacher certification. Admission to this program requires bachelor's level teacher certification in music (instrumental or vocal-choral).

**MASTER OF ARTS  
MAJOR: MUSIC  
CONCENTRATION: MUSIC EDUCATION/INSTRUMENTAL (P-12)**

**Required Music Courses: 16 semester hours**

- MU 511 Research Methods (3)  
 MU 512 Seminar in Instrumental Music (3)

Select *one* from the following: (3 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)

Select *one* from the following: (3 semester hours)

- MU 520 Music Theory: Style Analysis (3)  
 MU 521 Music Theory: Style Analysis (3)

Select from among the following, for a total of 4 semester hours:

- MU 480G Graduate Ensemble (1)  
 MU 481G Graduate Ensemble (1)  
 MU 519 Advanced Conducting (3)  
 MU 534 Individual Applied Music (2)  
 MU 535 Individual Applied Music (2)

**Required Music and Education Courses: (9-12 semester hours)**

- 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.  
 MU 442G Measurement and Evaluation in Music (3)

**Approved Music Electives by Advisement (4\*-7 semester hours)**

**32 Semester Hours Required for this Degree**

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in music (instrumental).

**MASTER OF ARTS  
MAJOR: MUSIC  
CONCENTRATION: MUSIC EDUCATION/VOCAL-CHORAL (P-12)**

**Required Music Courses: 16 semester hours**

- MU 511 Research Methods (3)  
 MU 509 Seminar in Choral Music (3)

Select *one* from the following: (3 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)

Select *one* from the following: (3 semester hours)

- MU 520 Music Theory: Style Analysis (3)  
 MU 521 Music Theory: Style Analysis (3)

Select from among the following, for a total of 4 semester hours:

- MU 480G Graduate Ensemble (1)  
 MU 481G Graduate Ensemble (1)  
 MU 519 Advanced Conducting (3)  
 MU 534 Individual Applied Music (2)  
 MU 535 Individual Applied Music (2)

**Required Music and Education Courses: (9-12 semester hours)**

- 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.  
 MU 442G Measurement and Evaluation in Music (3)

**Approved Music Electives by Advisement (4\*-7 semester hours)**

**32 Semester Hours Required for this Degree**

**Note:**

Completion of this program leads to eligibility for fifth-year (master's) teacher certification. Admission to this program requires fourth-year (bachelor's) teacher certification in music (vocal-choral).



**MASTER OF ARTS  
MAJOR: MUSIC  
CONCENTRATION IN GENERAL MUSIC (INSTRUMENTAL)**

**Required Music Courses: 16 semester hours**

- MU 511 Research Methods (3)
- MU 512 Seminar in Instrumental Music (3)

Select *one* from the following: (3 semester hours)

- MU 505 Music Literature: Medieval-Renaissance (3)
- MU 506 Music Literature: Baroque Era (3)
- MU 507 Music Literature: Classis-Romantic (3)
- MU 508 Music Literature: Contemporary Era (3)

Select *one* from the following: (3 semester hours)

- MU 520 Music Theory: Style Analysis (3)
- MU 521 Music Theory: Style Analysis (3)

Select from among the following, for a total of 4 semester hours:

- MU 480G Graduate Ensemble (1)
- MU 481G Graduate Ensemble (1)
- MU 519 Advanced Conducting (3)
- MU 534 Individual Applied Music (2)
- MU 535 Individual Applied Music (2)

**Approved Music Electives by Advisement (16 semester hours)**

**32 Semester Hours Required for this Degree**

**MASTER OF ARTS**  
**MAJOR: MUSIC**  
**CONCENTRATION IN GENERAL MUSIC (INSTRUMENTAL)**  
**THESIS OPTION**

**Required Music Courses: 16 semester hours**

- MU 511 Research Methods (3)
- MU 512 Seminar in Instrumental Music (3)

Select *one* from the following: (3 semester hours)

- MU 505 Music Literature: Medieval-Renaissance (3)
- MU 506 Music Literature: Baroque Era (3)
- MU 507 Music Literature: Classis-Romantic (3)
- MU 508 Music Literature: Contemporary Era (3)

Select *one* from the following: (3 semester hours)

- MU 520 Music Theory: Style Analysis (3)
- MU 521 Music Theory: Style Analysis (3)

Select from among the following, for a total of 4 semester hours:

- MU 480G Graduate Ensemble (1)
- MU 481G Graduate Ensemble (1)
- MU 519 Advanced Conducting (3)
- MU 534 Individual Applied Music (2)
- MU 535 Individual Applied Music (2)

**Thesis Option: 6 semester hours**

Must complete the following for a total of 6 semester hours:

- MU 599 Thesis (3)
- MU 599 Thesis (3)

See "Thesis Option and Procedures" on page 46.

**Approved Music Electives by Advisement (10 semester hours)**

**32 Semester Hours Required for this Degree**

**MASTER OF ARTS  
MAJOR: MUSIC  
CONCENTRATION IN GENERAL MUSIC (VOCAL/CHORAL)**

**Required Music Courses: 16 semester hours**

- MU 511 Research Methods (3)
- MU 509 Seminar in Choral Music (3)

Select *one* from the following: (3 semester hours)

- MU 505 Music Literature: Medieval-Renaissance (3)
- MU 506 Music Literature: Baroque Era (3)
- MU 507 Music Literature: Classis-Romantic (3)
- MU 508 Music Literature: Contemporary Era (3)

Select *one* from the following: (3 semester hours)

- MU 520 Music Theory: Style Analysis (3)
- MU 521 Music Theory: Style Analysis (3)

Select from among the following, for a total of 4 semester hours:

- MU 480G Graduate Ensemble (1)
- MU 481G Graduate Ensemble (1)
- MU 519 Advanced Conducting (3)
- MU 534 Individual Applied Music (2)
- MU 535 Individual Applied Music (2)

**Approved music electives by advisement (16 semester hours)**

**32 Semester Hours Required for this Degree**

**MASTER OF ARTS**  
**MAJOR: MUSIC**  
**CONCENTRATION IN GENERAL MUSIC (VOCAL/CHORAL)**  
**THESIS OPTION**

**Required Music Courses: 16 semester hours**

- MU 511 Research Methods (3)
- MU 509 Seminar in Choral Music (3)

Select *one* from the following: (3 semester hours)

- MU 505 Music Literature: Medieval-Renaissance (3)
- MU 506 Music Literature: Baroque Era (3)
- MU 507 Music Literature: Classis-Romantic (3)
- MU 508 Music Literature: Contemporary Era (3)

Select *one* from the following: (3 semester hours)

- MU 520 Music Theory: Style Analysis (3)
- MU 521 Music Theory: Style Analysis (3)

Select from among the following, for a total of 4 semester hours:

- MU 480G Graduate Ensemble (1)
- MU 481G Graduate Ensemble (1)
- MU 519 Advanced Conducting (3)
- MU 534 Individual Applied Music (2)
- MU 535 Individual Applied Music (2)

**Thesis Option: 6 semester hours**

Must complete the following for a total of 6 semester hours:

- MU 599 Thesis (3)
- MU 599 Thesis (3)

See "Thesis Option and Procedures" on page 46.

**Approved Music Electives by Advisement (10 semester hours)**

**32 Semester Hours Required for this Degree**

## 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).** Prerequisite: Permission of the instructor. Survey course examining major categories of solo vocal literature with detailed study of selected songs.
- 409G. Opera Literature (3).** Development of opera as a form with detailed study of selected works.
- 415G. Advanced Brass Methods and Literature (3).** Prerequisite: Permission of the instructor. 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.
- 419G. Advanced Woodwind Methods and Literature (3).** Prerequisite: Permission of the instructor. 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.
- 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.
- 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.
- 482G. Secondary Instrumental Music Materials and Methods (3).** Professional preparation of teachers of instrumental music, grades 7-12 with emphasis on appropriate theory, literature, teaching methods and organizational skills needed to teach in an effective public school instrumental music program.

- 483G. Secondary Vocal Music Materials and Methods (3).** Professional preparation of teachers of vocal music, grade 7-12, with emphasis on theory, literature, teaching methods and organizational skills needed to teach in an effective public school choral program.
- 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.
- 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).** Prerequisite: MU 210 or equivalent. Intensive study in repertoire of various performing media; includes parallel or supplementary reading and a paper dealing with some aspect of conducting.
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.
587. **Internship in Music P-12 (4).** Prerequisite: Admission to Alternative Fifth-Year Teacher Certification Program. Scheduled at end of program; offered Fall and Spring. 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.
599. **Thesis (3) (3).** (Grade of Pass or Fail only) Prerequisite: Approval of Application for Thesis Option. See “Thesis Option and Procedures” on page 46.

## NURSING

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. The College of Graduate Studies will automatically receive the JSU transcript once the student has filed an application for admission to 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 and quantitative measures of the General Test of the Graduate Record Examination (GRE) is equal to or greater than a total of 2100 points;

OR

15 times the undergraduate grade-point average on the initial undergraduate degree plus the Miller Analogies Test (MAT) raw 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 the initial undergraduate degree plus total score of verbal and quantitative measures of the General Test of the Graduate Record Examination (GRE) is equal to or greater than a total of 2100 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) raw 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 and quantitative measures of the General Test of the Graduate Record Examination (GRE) is equal to or greater than a total of 1500 points;

OR

15 times the undergraduate grade-point average on the initial undergraduate degree plus the Miller Analogies Test (MAT) raw 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 and quantitative measures of the General Test of the Graduate Record Examination (GRE) is equal to or greater than a total of 1500 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) raw 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 504 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 (3)
NU	527	Epidemiology (2)
NU	534	Statistics and Data Management (2)
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**

## **GRADUATE CERTIFICATE IN NURSING EDUCATION PROGRAM**

The graduate certificate program in nursing education is designed to prepare nurses to teach in nursing and health professional programs, health care institutions and agencies, and in the community. The certificate provides nurses with essential knowledge and skills about teaching, program development, evaluation, clinical instruction, and other aspects of the educational process in nursing. At the conclusion of the program, graduates receive a certificate acknowledging successful completion.

Courses in the graduate certificate program are offered online. The practicum is based on student needs, and is planned with students in a location convenient for them. A student who completes the graduate certificate may apply these hours of credit toward electives in the Master of Science in Nursing degree.

### **APPLICANTS FOR THE GRADUATE CERTIFICATE IN NURSING EDUCATION**

Applicants for the Graduate Certificate in Nursing Education must submit the following:

1. Completed JSU graduate 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 transcripts from the postsecondary institution awarding the bachelor's degree. (Students who have previously attended JSU do not need to request a transcript from the University. The College of Graduate Studies will automatically receive the JSU transcript once the student has filed an application for admission to graduate studies.)
5. Three "Graduate Reference Forms" completed by individuals who can provide qualitative assessment of the 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/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.
7. A current RN license.

**Required courses for the graduate certificate in Nursing Education:  
(12 hours)**

NU	550	Developing Instruction Programs in Collegiate Nursing Education
NU	551	Teaching, Learning, and Evaluation in Collegiate Nursing Programs
NU	552	Practicum in Collegiate Nursing Education
NU	553	Issues and Trends in Collegiate Nursing Education

**NURSING COURSES**

**Prefix NU**

- 442G. Transcultural Nursing and Healthcare (3).** An exploration of theoretical foundations for cultural diversity in health and illness, with emphasis in assessment and analysis of selected cultures as related to nursing and health care practices.
- 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)
- 507. 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)
- 513. 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)
- 514. 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 as they exist in the community as well as analyze collected data for indicators of health maintenance or alterations in health.
- 519. 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.

522. **Research Methodology (3).** Discussion of principles of the research process; emphasis on the utilization and generation of research relevant to nursing. (TSU course: NSG 6691)
527. **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.
534. **Statistics and Data Management (2).** 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.
540. **Community Health I (6).** Prerequisites: NU 504, 507, 513, 514, 519, 527, and 534. 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.
545. **Community Health II (6).** Prerequisite: NU 540. 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.

550. **Developing Instruction Programs in Collegiate Nursing Education (3).** Development of curricular components for nursing instructional programs. Examines the relationships among philosophy, goals, and outcomes for various learning environments. (Graduate Certificate requirement/Elective for MSN.)
551. **Teaching, Learning, and Evaluation in Collegiate Nursing Programs (3).** Focuses on teaching-learning theories, processes, strategies, and styles. Examines evaluation principles in the classroom and clinical setting. (Graduate Certificate requirement/Elective for MSN.)
552. **Practicum in Collegiate Nursing Education (3).** Application for teaching-learning theories/strategies, assessment and measurement methods, curricular frameworks, and nursing knowledge in an educational context. (Graduate Certificate requirement/Elective for MSN.)
553. **Issues and Trends in Collegiate Nursing Education (3).** Exploration of issues and trends influencing the role of the nursing educator. Includes analysis of technological, legal, economic, political, cultural, and ethical, and professional dynamics. (Graduate Certificate requirement/Elective for MSN.)
556. **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. (MSN elective)
581. **Independent Study (1).** Prerequisite: Permission of the advisor. Special project in nursing/informatics studies.
582. **Independent Study (2).** Prerequisite: Permission of the advisor. Special project in nursing/informatics studies.
583. **Independent Study (3).** Prerequisite: Permission of the advisor. Special project in nursing/informatics studies.

## PHYSICS

The Department of Physical and Earth Sciences offers supporting courses for the Master of Arts with a major in liberal 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 COURSES

#### 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).** Prerequisite: PHS 491G. A continuation of the investigation of quantum mechanics.
- 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.) May be repeated up to three times.





## POLITICAL SCIENCE

The Political Science and Public Administration Departments offer 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 liberal 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).** Prerequisite: PSC 432 or 432G. 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.

- 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).** Prerequisites: Permission of the instructor and approval of the department head. In-dept study of selected topics.
- 597, 598. Public Affairs Internship (3) (3).** (Grade of Pass or Fail only) Prerequisites: Permission of the instructor and approval of the department head. Supervised assignment in office of an area public agency for a minimum of eight hours per week.

## 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 liberal 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 head.

### MINIMUM REQUIREMENTS FOR THE DEGREE

**Non-Thesis Option:** Total of 45 semester hours. Minimum of 39 hours in approved psychology courses. Up to six hours may be taken in other related disciplines approved by the head of the Psychology Department.

**Thesis Option:** Total of 45 semester hours. Restricted to students in the Concentration Plan. Minimum of 33 hours in approved psychology courses and six hours of thesis. Up to six hours may be taken in other related disciplines approved by the head of the Psychology Department. See “Thesis Option and Procedures” on page 46.

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 (12 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, 417G, 424G, 425G, 433G, 531, 532, 533, 537

**Professional Issues (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 related disciplines with approval of the Psychology Department head.

**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

Behavior Analysis Practicum: PSY 575, 576, 577

**Independent Study Option:** 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 46.

Hours may include a maximum of 12 hours of electives which may be selected from other related disciplines with approval of the Psychology Department head. 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.

**Behavior Analysis Practicum:** Students planning to pursue certification as a behavior analyst should plan course work to include the behavior analysis practica.

**General Practicum:** Students planning to work in applied areas such as visitor behavior, program evaluation, developmental consultation or psychology laboratories 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.
- 437G. Assessment of Family Violence (3).** Prerequisite: PSY 330. Focusing on parents, children and families, this course discusses essential issues in assessing family violence and reviews epidemiological data and empirical findings regarding the causes of violence.
- 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 in accordance with the DSM-IV.
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).** Prerequisite: Consent of instructor. 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.
- 575, 576, 577. Applied Behavior Analysis Practicum (3) (3) (3).** Prerequisite: Consent of instructor. Practice of behavior analysis principles in applied settings such as treating developmental disabilities, or organizational improvement
- 582, 583, 584. Clinical Practicum (3)(3)(3).** Prerequisites: PSY 522 and three of the following courses: PSY 424G, 437G, 514, 521, 531, 532, 533 and permission of the Clinical Practicum Committee. 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.
- 585, 586, 587. General Practicum (3) (3) (3).** Prerequisite: Consent of instructor. Implementation of psychological principles in selected areas of application/research, such as developmental disabilities, academic behaviors, language/communication problems, and environmental concerns.
- 592, 593. Independent Research (3) (3).** Prerequisites: Consent of instructor and advisor. Students will conduct supervised research projects chosen in coordination with their supervisor
- 594, 595. Independent Readings (3) (3).** Prerequisites: Consent of instructor and advisor. Independent readings will normally include content not offered in regularly scheduled classes.
- 599. Thesis (3) (3).** (Grade of Pass or Fail only) Prerequisite: Approval of Application for Thesis Option. See "Thesis Options and Procedures" on page 46.

## 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, emergency management, environmental science management, political science, or spatial analysis and management.

#### **Required public administration courses: 15 semester hours**

- PSC 481G 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
- 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 on the next page. For all other course descriptions, refer to the appropriate sections in this *Bulletin*, pages 83-92 for business administration, pages 101-103 for criminal justice, pages 203-208 for emergency management, pages 213-216 for environmental science management, pages 249-251 for political science and pages 260-262 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 Department of Physical and Earth Sciences offers core courses and an area of concentration in spatial analysis and management within the Master of Public Administration degree program and supporting courses for the Master of Arts with a major in liberal studies. A graduate certificate in spatial analysis and management is also available for non-degree students who wish to gain expertise in geographic information systems (GIS). 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 MPA 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.

NOTE: Students who have not had undergraduate courses in GIS, or with no prior experience in GIS, using ESRI software are required to complete SAM 510 as a prerequisite for the required courses.

### Required spatial analysis and management courses: 15 semester hours

SAM 520	Spatial Data Collection and Management (3)
SAM 530	Analyzing Spatial Networks (3) <b>OR</b>
SAM 540	Site Location Analysis (3)
SAM 550	Organization and Management of Spatial Systems (3)
SAM 560	Special Data Layout and Design (3)
SAM 580	Directed Research (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 spatial analysis and management courses are provided on page 260.

For course descriptions of the required public administration courses, see Public Administration, page 258.

### **ADMISSION REQUIREMENTS FOR A GRADUATE CERTIFICATE IN SPATIAL ANALYSIS AND MANAGEMENT**

Applicants must possess undergraduate degrees from institutions accredited by the appropriate regional accrediting association. A particular undergraduate major is not specified for admission to this program.

Applicants for the graduate certificate in spatial analysis and management must submit:

1. Completed JSU application.
2. Non-refundable \$20.00 application processing fee.
3. Official transcript from the postsecondary institution awarding the bachelor's degree. (Students who have previously attended JSU do not need to request a transcript from the University. The College of Graduate Studies will automatically receive a JSU transcript once a student has filed an application for admission to graduate studies.)
4. 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.

### **MINIMUM REQUIREMENTS FOR 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.

NOTE: Students who have not had undergraduate courses in GIS, or with no prior experience in GIS, using ESRI software are required to complete SAM 510 as a prerequisite for the required courses.

#### **Required courses for the graduate certificate in spatial analysis and management: 15 hours**

SAM 520	Spatial Data Collection and Management (3)
SAM 530	Analyzing Spatial Networks (3) OR
SAM 540	Site Location Analysis (3)
SAM 550	Organization and Management of Spatial Systems (3)
SAM 560	Special Data Layout and Design (3)
SAM 580	Directed Research (3)

**SPATIAL ANALYSIS AND MANAGEMENT COURSES****Prefix SAM**

510. **Introduction to Spatial Analysis (3).** An overview of geographic information systems and a foundation in map coordinate systems, map projections, and map scale.
520. **Spatial Data Collection and Management (3).** Prerequisite: SAM 510. 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.
530. **Analyzing Spatial Networks (3).** Prerequisite: SAM 510. Introduction to topology theory and its employment in GIS network analysis. Emphasis on methods of determining efficient paths, modeling network flows and creating efficient service areas for organizational entities.
540. **Site Location Analysis (3).** Prerequisite: SAM 510. Emphasis on evaluating existing site location efficiencies, determining appropriate point site and area site locations for organizational entities, and analyzing environmental impact using GIS.
550. **Organization and Management of Spatial Systems (3).** Prerequisite: SAM 510. 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.
560. **Spatial Data, Layout, and Display (3).** Prerequisite: SAM 510. 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.
570. **Advanced Topics in Spatial Analysis (3) (3).** Prerequisite: SAM 510. 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.
580. **Directed Research (3).** (Grade of Pass or Fail only) Prerequisite: Permission of instructor and SAM 510.

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## COLLEGE OF GRADUATE STUDIES

All graduate programs are under the administrative direction of the College of Graduate Studies. The Dean of the College of Graduate Studies serves as the chief administrative officer and reports to the Vice President for Academic and Student Affairs. The graduate Dean serves as chair of the Graduate Council and is responsible for implementing, monitoring, and enforcing Graduate Council policies and regulations. The graduate Dean is also responsible for presenting Graduate Council recommendations to the appropriate administrative authority for approval.

### GRADUATE COUNCIL

The Graduate Council, composed of representatives from the graduate faculty, is responsible for formulating policies and regulations affecting graduate curricula and requirements for admission, retention, and graduation.

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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
HLT	Health
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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