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Jacksonville State University

Jacksonville, Alabama

Jacksonville State University is accredited by the
Southern Association of Colleges and Schools Commission on Colleges,
1866 Southern Lane, Decatur, GA 30033-4097, telephone 404-679-4500,
at <http://www.sacscoc.org>,
to award Bachelor's, Master's, Educational Specialist, and
Doctoral Degrees.

CATALOG 2016-2017

One Hundred Thirty- Fourth to Thirty-Fifth Years

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Specific areas within JSU are also accredited by national accrediting agencies; the names and addresses of those agencies are listed below.

National Association of Schools of Art and Design

11250 Roger Bacon Drive, Suite 21
Reston, VA 20190
Telephone: (703) 437-0700

National Association of Schools of Music

11250 Roger Bacon Drive, Suite 21
Reston, VA 20190
Telephone: (703) 437-0700

National Association of Schools of Theatre

11250 Roger Bacon Drive, Suite 21
Reston, VA 20190
Telephone: (703) 437-0700

Council on Social Work Education

1701 Duke Street, Suite 200
Alexandria VA 22314-3457
Telephone: (703) 683 -8080

National Council for Accreditation of Teacher Education/CAEP

2010 Massachusetts Ave. NW, Suite 500
Washington, DC 20036
Telephone: (202) 466-7496

Alabama State Department of Education

50 North Ripley Street
P.O. Box 302101
Montgomery, Alabama 36104
Telephone: (334) 242-9700

Commission on Collegiate Nursing Education

One Dupont Circle, NW, Suite 530
Washington, DC 20036-1120
Telephone: (202) 887-6791

Computing Accreditation Commission of ABET, Inc.

111 Market Place, Suite 1050
Baltimore, MD 21202
Telephone: (410) 347-7700

Commission on Accreditation for Law Enforcement Agencies, Inc.

10302 Eaton Place, Ste. 100
Fairfax, VA 22030-2215
Telephone: (800) 368-3757

**Association for Behavior Analysis
International**

550 Centre Ave
Portage, MI 49024
Telephone: (269) 492-9310

**AACSB International - The Association
to Advance Collegiate Schools of
Business**

777 South Harbor Island Blvd, Suite 750
Tampa, FL 33602
Telephone: (813) 769-6500

**The Association of Technology,
Management, and Applied Engineering**

1390 Eisenhower Place
Ann Arbor, MI 48108
Telephone: (734) 677-0720

**Accrediting Council on Education in
Journalism and Mass Communications**

1435 Jayhawk Blvd.
Lawrence, KS 66045
Telephone: (785) 864-3973

**Council for Accreditation of Counseling
and Related Educational Programs**

1001 North Fairfax Street, Suite 510
Alexandria, VA 22314
Telephone: (703) 535-5990

**Accreditation Council for Education in
Nutrition and Dietetics**

120 South Riverside Plaza, Suite 2000
Chicago, IL 60606
Telephone: (800) 877-1600

**American Association of Family and
Consumer Sciences**

400 N. Columbus Street, Suite 202
Alexandria, VA 22314
Telephone: (800) 424-8080

**National Association of Public Affairs
and Administration**

1029 Vermont Ave. NW, Suite 1100
Washington, DC 20005-3517
Telephone: (202) 628-8965

TABLE OF CONTENTS

Board of Trustees	4
Mission Statement	5
General Information – Introduction	6
Requirements for Admission	7
Tuition and Fees, Financial Policies	13
Financial Aid	15
University Housing and Residence Life	20
Academic Regulations	22
Student Regulations/Information	33
Summary of Degrees/Requirements	40
Bachelor of Arts	41
Bachelor of Fine Arts	41
Bachelor of Science	41
Bachelor of Science in Education	42
Bachelor of Social Work	42
Bachelor of Science in Nursing	42
Bachelor of Science in Respiratory Therapy	207
Pre-Professional Concentrations	42
College of Arts and Sciences	43
College of Commerce and Business Administration	136
College of Education and Professional Studies	152
College of Nursing	201
Department of Military Science	209
Cooperative Education Program	213
Student Affairs	214
Administration	215
Staff.....	218
Faculty	228
Key to Departmental/Course Abbreviations	242
Index	243

The institution reserves the rights to correct, alter, amend, or modify any item contained in the catalog. The University reserves the right to make changes as required in course offerings, curricula, academic policies and other rules and regulations affecting students, to be effective whenever determined by the University. The institution reserves the right to withdraw any course and close or divide sections whenever it is deemed appropriate. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions. Any such changes will be shown in the schedule of classes, or will be available in the Registrar's Office and/or the offices of the College Dean(s).

BOARD OF TRUSTEES

THE HONORABLE Robert J. Bentley
Governor of Alabama, President, ex Officio

Name	District
VIVIAN DAVIS FIGURES	First
GALE SAXON MAIN	Second
GREG BROWN	Third
WILLIAM RONALD SMITH	Third
CLARENCE W. DAUGETTE, III	Fourth
RANDALL EARLIE JONES	Fifth
JIM BENNETT	Sixth
THOMAS W. DEDRICK, SR.	Seventh
RANDY OWEN	In-State At Large
TONY LAMAR INGRAM	Out-of-State At Large

HISTORY OF JACKSONVILLE STATE UNIVERSITY

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 changed again, 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. (1883-1885), J. Harris Chappell (1885-1886), Carlton Bartlett Gibson (1886-1892), 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), William A. Meehan (1999-2015), and John M. Beehler (2015-present).

Jacksonville State University has developed into a modern comprehensive regional university serving Northeast Alabama on a 459-acre campus with 58 buildings. In addition, the University operates off-campus centers at JSU-Gadsden and JSU-McClellan. Through its programs of teaching, research, and service, Jacksonville State University has served the region and state for more than 133 years.

JSU VISION

Jacksonville State University strives for continuous improvement as a learning-centered community committed to developing the ability to think critically, solve problems creatively and collaboratively, and communicate effectively.

JSU MISSION

Jacksonville State University provides distinctive educational, cultural and social experiences for a diverse student population. As a learning-centered university, Jacksonville State University strives to challenge students academically in a responsive environment, meeting students' educational, career and personal goals. As an academic institution, Jacksonville State University seeks to produce broadly educated graduates prepared for global engagement. As a public, comprehensive university, Jacksonville State University promotes excellence in scholarly and service activities consistent with its academic and professional strengths.

UNIVERSITY GOALS

- Educate students to be productive, responsible citizens and effective leaders.
- Advance student learning through academic excellence.
- Increase student and faculty participation in research and service activities.
- Create a diverse learning community that facilitates academic and professional excellence.
- Effectively use technology to support learning, research, information management and evidence-based decision-making.
- Continuously improve administrative processes and services.
- Enhance revenue growth and financial planning to ensure adequate fiscal resources for the University.

UNIVERSITY CORE VALUES

Quality teaching to enhance student learning and leadership skills for employment, citizenship, and life-long development.

Academic, as well as overall, excellence in all aspects of university life.

The ethical, social, intellectual, cultural and physical development of students, faculty, and staff.

The support of intellectual and academic freedom, dialogue, and the free exchange of ideas.

Building effective relationships and communication paths among departments, faculty, staff, students, and alumni.

Maintaining diversity in faculty, staff, and student body.

Enhanced efforts to accommodate students' understanding and needs regarding University policies and practices.

Enhanced use of and access to current technology.

Continuous improvement of a learning centered environment.

GENERAL INFORMATION

INTRODUCTION

Jacksonville State University is a multipurpose institution, located in northeast Alabama. It offers the B.A., B.F.A., B.S., B.S.E., B.S.N., B.S.W. degrees and, in addition, basic engineering and preprofessional training for medicine, law, veterinary medicine and pharmacy.

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

Summer sessions are also provided. During these sessions, credit may be earned toward graduation or may be used in securing, extending or renewing teachers' certificates.

The Department of the Army operates a Senior Program of General Military Science, Reserve Officers' Training Corps at Jacksonville with either a two- or four-year program of instruction. The ROTC program at Jacksonville State University is currently ranked by the U.S. Army as sixth of all ROTC programs in Alabama, Mississippi, Louisiana and the Florida panhandle.

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

The campus itself is located on the northern edge of the city and has had considerable landscaping, which has greatly accentuated its natural beauty.

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 the FFEL/Direct Loans for Peace Corps or volunteer services, financial assistance programs, general institutional information (such as curriculum and costs), graduation rates, campus security report, 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 (www.jsu.edu) or at other locations described on the website.

ADMISSION TO THE UNIVERSITY

Information regarding admission to the University and all necessary forms for admission may be obtained by contacting the Office of Admissions, Jacksonville State University, 700 Pelham Rd., North, Jacksonville, Alabama, 36265-1602. You can also visit www.jsu.edu/apply or email info@jsu.edu for more information.

All prospective students are required to submit the following: (1) a completed application form, (2) a non-refundable application fee of \$35.00, (3) appropriate academic credentials (See following section on Application Procedures).

Students are admitted prior to the beginning of each semester. **It is strongly recommended that students apply at least three months prior to the expected date of enrollment.** It is the student's responsibility to see that his/her high school transcript, ACT/SAT scores, or college transcripts are submitted. These documents must be sent to JSU directly from the high school, college, or testing agency. Decisions regarding admissibility to the University will be made as soon as all necessary credentials are received in the Office of Admissions. Admissions decisions are assigned only for the term a student applies. Students who have been admitted to JSU but do not enroll are required to submit an updated admissions application and meet the admission requirements for the updated term and student type.

JSU offers some academic programs which have additional assessment requirements beyond those listed below for admission to the university. Acceptance to JSU does not constitute assessment by any of these programs. Students who desire to study in academic programs that have additional requirements should refer to the academic program for information regarding requirements to study in that area.

NONDISCRIMINATION

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

SELF-DISCLOSURE

Jacksonville State University is committed to maintaining a safe, learning centered setting for all persons in the community. In support of this commitment, JSU requires all applicants to answer questions related to disciplinary

history at educational institutions and felony history. Previous disciplinary action and/or felony history will not automatically bar applicants from admission but will require review. Applications requiring review should arrive at least two months prior to start of classes.

APPEALS

In addition to the specific requirements set forth below, the Admissions Office shall consider the appeals of applicants who are not admissible to the University due to not meeting the minimum ACT/SAT score requirement, the minimum high school grade point average requirement, the minimum college/university grade point average requirement or suspension from a prior college. To appeal to the Admissions Office, all required documents should be submitted to the Admissions Office by July 1 for the fall semester, November 1 for the spring semester and April 1 for the summer semester. Applicants who apply after the aforementioned dates who wish to petition will have the opportunity to do so for the next term. The institution reserves the right to reject by action of the Admissions Office the application of any individual whose characteristics or actions are considered detrimental to the institution. All applicants will be notified concerning admission as soon as all their records have been processed. A student who is denied admission by the Admissions Office and whose appeal is denied by the Admissions Office has the right to appeal to the president of the university whose decision is final.

APPLICATION PROCEDURES

I. First Year Students (Never attended college/university or only attended as a dual enrollment student)

First year student applications should be submitted after completion of the junior year of high school. It is recommended that first year students apply for admission before graduating from high school. High school graduates are admitted on the basis of both an acceptable high school record and the score on the ACT or SAT. Students who seek admission as a first year student to the University must satisfy all requirements for transfer admission, as follows:

- Minimum high school GPA and graduation with acceptable diploma type
- Minimum ACT or SAT scores

Jacksonville State University admits students who have demonstrated that they are capable of college level work and have a reasonable chance to successfully complete a college degree. Students without academic skill deficits or with minimal academic-skill deficits (verbal communication, mathematics and reading) as demonstrated by high school record, ACT or SAT scores and other reasonable evidence are admitted unconditionally. Students with moderate academic-skill deficiencies, which are likely to require more than one semester for successful remediation, will be conditionally admitted. Conditionally admitted students must be enrolled continuously in prescribed developmental studies courses and other assigned activities until all academic skill deficiencies are eliminated. All admitted students must successfully eliminate all academic-skill deficiencies within twelve months of admission or, if not enrolled on a continuing basis, the first twenty-four hours of attempted academic credit.

First year students who apply for admission but have not attended high school or a secondary education institution in eight (8) or more years or are at least 25 years of age must submit proof of high school graduation or the equivalent, but are exempt from the grade point average and ACT/SAT requirement listed in the sections. First year students in this category may choose to take the ACT/SAT for placement into the appropriate level of English. Students in this category who do not choose to submit a standardized test score will be placed in English after consultation with the English Department.

- A. High School Transcript – Prior to graduation, an official high school transcript is required indicating the GPA of work completed through the junior year of high school. To be offered provisional admission before high school graduation applicants should have a cumulative high school grade point average 2.0 on 4.0 scale (75/100). Upon graduation an official high school transcript showing the date of graduation and type of diploma received is required. To meet admission requirements, applicants should have graduated with an acceptable diploma and a high school cumulative grade-point average 2.0 on 4.0 scale (75/100).
 1. Transcripts must be sent from the high school by mail or email. Mailed transcripts should be in a sealed envelope and emailed transcripts should indicate the sending address is a school official. Students are encouraged to emphasize the following subjects in their high school programs: English, social studies, mathematics, foreign languages, and the natural sciences.
 2. Students who have earned college credit while in high school through dual enrollment must request the credit awarding institution to send a transcript indicating the credit is not conditional or pending.
 3. Non-graduates of high school may apply if they have passed the high school level General Education Development (GED) test and present an official score report of their test results. The score report should be sent to JSU directly from the testing agency or should be placed in a sealed envelope from the testing agency and presented unopened to the Admissions Office.
- B. Standardized Test Scores (ACT/SAT) – First year students are also required to submit official scores from either ACT or SAT. These scores must be sent to JSU directly from the testing agency. The minimum score for conditional admission is an ACT Composite of 18 or SAT combined Critical Reading and Math of 870. JSU does not combine test scores to create a superscore. The writing score is not utilized for admission purposes.

Freshman Admissions Categories		
	Qualifications	Requirements
Unconditional Admission	ACT Composite 20 or above SAT Combined Critical Reading and Math 950 or above High School Grade-Point Average 2.00 on 4.00 scale*	Must successfully remediate skill deficiencies within one year.
Conditional Admission	ACT Composite 18-19 SAT Combined Critical Reading and Math 870-940 High School Grade-Point Average 2.00 on 4.00 scale*	Must be continuously enrolled in prescribed developmental skills courses; participate in prescribed counseling and advisement activities; and remediate all academic skill deficiencies (including LS-104) within one year

* Applicants must also provide evidence of high school graduation with an acceptable diploma. Successful completion of the GED is acceptable in lieu of high school graduation. GPA will be taken from the final high school transcript provided to the Admissions Office after graduation. Students will be provisionally admitted until the final high school transcript has been received by the Admissions Office. Once the final transcript has been received, the GPA will be reviewed and must meet the required minimum for admission.

- C. JSU dual enrollment students who have completed at least one course and remain eligible to take other courses as dual enrollment students will be considered for unconditional admission to the University as a first year students. ACT or SAT scores will not be reviewed for the admission decision, only for placement purposes. ACT or SAT scores are still required for scholarship consideration. These students must still meet the high school GPA requirement of 2.0.
- D. The Admissions Office shall consider the appeals of applicants who are not admissible to the University due to not meeting the minimum ACT/SAT score requirement or minimum grade point average. To appeal to the Admissions Office, first year students should submit an application for admission, official high school transcript showing grade point average through the junior year, all ACT/SAT scores, a letter/email of appeal from the student explaining any extenuating circumstances and why an exception to admission requirements should be granted, and a letter/email of recommendation on school stationery/ from school email from a high school teacher who taught the student in a required academic subject (i.e. – English, mathematics, social studies, or science) during the junior or senior year.

II. Transfer Students (Never attended JSU but have attended a college/university)

Transfer applications should be submitted as soon as there is interest in attending JSU. Students who seek to transfer to the University after attending another accredited college or university must satisfy all requirements for transfer admission as follows:

- Minimum cumulative grade-point average of 2.00 (GPA used is that which is computed by JSU).
 - Eligible to re-enter the institution last attended.
- A. The University reserves the right to accept or deny course work presented for transfer. Typically, all coursework from regionally accredited institutions will be accepted as fair equivalent courses at JSU provided JSU has an equivalent course at the appropriate level. Credit for any course or part of a course will not be granted twice. Courses not having fair equivalents at JSU may or may not be accepted as an elective. The transfer decision will be made on a course-by course basis by the Registrar's Office during the credit evaluation process. For additional information, students may contact the Registrar's Office. All grades attempted from other institutions will be used in computing grade point average at JSU. Students transferring coursework are advised the grade point average requirements will be based on overall GPA requirements as well as resident requirements when considering admission to or retention in certain programs, major and minor requirements, and graduation requirements. Grades of "D" will be accepted except in EH 100, EH 101, EH 102, EH 103, EH 104, and MS 100. However, a course in which a "D" grade has been earned is not creditable toward the major and/or minor requirements and may not be creditable toward some specific program requirements. Transfer students who are currently enrolled at an institution who also possess the required minimum GPA will be provisionally admitted until the final college transcript has been received by the Admissions Office. Once the final transcript has been received, the GPA will be recalculated and must meet the required minimum for admission.
 - B. Transfer students are required to present one official transcript from each institution previously attended. It is the responsibility of the applicant to ensure transcripts are sent to JSU. These transcripts must be sent to JSU directly from the institution or placed in a sealed envelope from the institution and presented unopened to the Office of Admissions. JSU accepts transcripts sent electronically through sending networks. (Contact the college/university sending the transcript to determine if this is an option at that institution.)
 - C. If fewer than 24 semester hours are accepted, based on hours computed by JSU, students must also fulfill all requirements listed under the First Year Student Admissions section unless the applicant has an associate's degree from an accredited institution.

- D. Students may transfer from a two-year college at any time. Although an unlimited number of hours are acceptable from a two-year college, students must earn a minimum of 60-64 semester hours, depending on major, from a four-year college or university, 32 of which must be earned from JSU. Therefore, **JSU recommends that each transfer student not earn credit beyond 60-64 semester hours (90-96 quarter hours), depending on the major, at the two-year college.**
- E. Students under academic probation at other accredited institutions are admissible to JSU on probation, provided they are eligible to return to that institution. Students academically ineligible to return to the last institution attended may not be admitted to JSU. They may, however, appeal to the Admissions Committee for consideration of their individual situation. Students under disciplinary probation or suspension at other institutions are not eligible to enroll at JSU. They may, however, appeal to the Vice President for Student Affairs for consideration of their individual situation. Students with less than 2.00 cumulative GPA may be considered for admission after a review by the Admissions Office. The GPA will be computed from all transcripts received by the Admissions Office at the time of application. In order for a review of the application to occur, all transcripts from previously attended colleges/universities must be in the Admissions Office. The Admissions Office shall consider the appeals of applicants who are not admissible to the University due to not meeting the minimum college/university grade point average requirement or suspension from a prior college. To appeal to the Admissions Office, transfer students should have submitted all requirements for admission and a letter of appeal explaining any extenuating circumstances and why an exception should be granted.
- F. AGSC/STARS: Alabama Articulation and General Studies Committee/Statewide Transfer and Articulation Reporting System (AGSC/STARS) is part of a system created by statewide legislation designed to help a student transfer from one college to another. This system is a course-by-course layout of Alabama two-year and four-year institutions, and is designed to assist students with questions pertaining to credit hour and course transfers. This information is available online at www.jsu.edu/transfer.

III. International Student Admission

- A. International students who seek admission to the University and have never attended college in the United States must satisfy all requirements for admission, as follows:
 - a. Minimum score on one exam
 - b. Proof of secondary school graduation
 - c. Copy of Passport
 - d. Completed International Student Financial Statement
- B. International students who have never attended college in the United States must present a minimum score on one of the exams listed below. The chosen test must have been taken within the last two years and be sent to the university from the test agency. These test scores should be sent to JSU directly from the testing agency.

Alternately, international students may be admitted as English Language Institute Conditional Admission first year students or transfers and study in the English Language Institute (ELI) before University study. To apply under this option, students must contact ELI (eli@jsu.edu) for information. Students who begin in the ELI may meet the University language requirement either by successfully completing the English Language Institute program prior to beginning study for an academic degree or meeting the TOEFL, IELTS, PTE, ACT or SAT scores.

Test Type	Required Minimum
TOEFL (paper-based)	500
TOEFL (computer-based)	173
TOEFL (internet-based)	61
IELTS	5.5
PTE Academic	45
iTEP	4.5
ACT Composite	18 (English subtest 14)
SAT Critical Reading and Math	870 (Critical Reading test 350)

- B. In addition to the test score requirement, an international student must send a certified English translation of secondary school transcripts and proof of secondary school graduation to the JSU Admissions Office. These documents should indicate attestation of translation from an original document. Alternately, international students may send their secondary school documents to an approved evaluation agency listed below. This evaluation must be mailed to JSU directly from the evaluation agency. A grade point average of 2.0/4.0 (U.S. scale) is required as a minimum GPA.
- C. International students who have attended a regionally accredited institution in the United States and are transferring to JSU must present official transcripts from each institution attended. Those students who have earned 24 transferrable hours from regionally accredited institution(s) are not required to meet the test score requirements listed in Section III Part B.
- D. All international students are required to submit a copy of their Passport to ensure correct spelling on the I20/DS-2019. Additionally, all international students are required to complete a form titled "International Student Financial Statement." This form is required to provide documentary evidence showing adequate financial resources are available to attend the university. If the student is attending another college/university on a J1 Visa,

the "International Student Transfer Form" must be submitted.

- E. International students interested in a one to two year cultural exchange program should refer to the International House Program (IH). For more information on this program and to view the requirements visit <http://www.jsu.edu/ihop/applications.html>.
- F. International students who have been accepted as participants in special University-approved programs with JSU (the International House Program, exchange agreements, dual degrees by inter-university collaboration or other contractual agreements) will have met JSU's International Admission requirements, and all other admission requirements may be waived.

The application for admission to JSU will not be accepted without the documents listed above and the \$35 (U.S.) non-refundable application fee. **Application materials must be received by the deadlines: July 1- Fall Semester, November 1 – Spring Semester, March 1 – Summer Semester.**

International students wishing to have credits earned at a foreign institution of higher learning evaluated must first be admitted to JSU as a degree-seeking student. At that point a student may request an evaluation of foreign educational credentials be mailed to JSU from one of the following or another approved evaluating agencies:

AACRAO/International Education Services

One Dupont Circle, NW, Suite 520
Washington, DC 20036
(202) 296-3359
oies@aacrao.org

Education Credentials Evaluators, Inc.

P.O. Box 92970
Milwaukee, WI 53202-0970
(414) 289-3400

International Education Research Foundation

(formerly Credentials Evaluation Services)
P.O. Box 66940
Los Angeles, CA 90066

International Consultants of Delaware, Inc.

109 Barksdale Professional Bldg.
Newark, DE 19711

International Education Evaluation, Inc.

363 Ridgewood Ave.
Charlotte, NC 28209

International Evaluation Service

(formerly Indo-Chinese Document Evaluation Translation)
P.O. Box 20348
Long Beach, CA 90801

World Education Services Main Office

P.O. Box 745
Old Chelsea Station
New York, NY 10113-0745
(212) 966-6311

World Education Services

Southeast Office
P.O. Box 01-5060
Miami, FL 33101
(305) 358-6688

VI. Returning Students (Students who have attended JSU and earned credit)

Students who have either previously attended JSU, earned credit, and not attended within a year or are pursuing a second bachelor's degree should update their admission status. Returning students are not required to pay the undergraduate admission application fee, but are required to complete and submit an updated application. This form is available in the Admissions Office or online at www.jsu.edu/undergraduate.

- A. Students who seek to return to the University and have attended elsewhere since attending JSU must satisfy all requirements for admission, as follows:
 - Submit transcripts from each institution.
 - Minimum cumulative grade-point average of 2.00 (GPA used is that which is computed by JSU).
 - Eligible to re-enter the institution last attended.

Former students who plan on returning to JSU after attending other institutions will be evaluated as transfer students and must meet the transfer student admission requirements. Transcripts must be requested from other institutions and will be evaluated and considered as a part of the returning process. After all required documents have been received, the returning student will be notified of their eligibility to continue taking courses at JSU. The University reserves the right to accept or deny course work presented for transfer from returning students. Typically, all course work from

regionally accredited institutions will be accepted as fair equivalent courses at JSU provided JSU has an equivalent course at the appropriate level. Credit for any course or part of a course will not be granted twice. Courses not having fair equivalents at JSU may or may not be accepted as an elective. The transfer decision will be made on a course-by-course basis by the Registrar's Office during the credit evaluation process. For additional information, students may contact the Registrar's Office. All grades attempted from other institutions will be used in computing grade-point-average at JSU. Students transferring course work are advised the grade-point-average requirements will be based on overall GPA requirements as well as resident requirements when considering admission to or retention in certain programs, major and minor requirements, and graduation requirements. Grades of "D" will be accepted except in EH 101, EH 102, EH 103, EH 104, and MS 100. However, a course in which a "D" grade has been earned is not creditable toward the major and/or minor requirements and may not be creditable toward some specific program requirements.

Students under academic probation at other accredited institutions are admissible to JSU on probation, provided they are eligible to return to that institution. Students academically ineligible to return to the last institution attended may not be admitted to JSU. They may, however, appeal to the Admissions Committee for consideration of their individual situation. Students under disciplinary probation or suspension at other institutions are not eligible to enroll at JSU. They may, however, appeal to the Admissions Committee for consideration of their individual situation.

V. Transient Students (Non-degree candidates enrolling for one term)

Transient students will not be considered degree-seeking students at JSU but rather taking courses for personal enrichment and/or to transfer to the institution where the degree is being pursued. Transient students planning to transfer JSU credits to another institution should consult the appropriate dean or registrar to determine the acceptability of the JSU work to the institution where the degree is being pursued. Please note that transient students are not eligible for Title IV funds. For more information, please contact the Office of Student Financial Services.

Students who seek to admission to the University as transient must satisfy all requirements for admission, as follows:

- Transient letter or official transcript from the current or previous college or university
- Eligible to re-enter the institution last attended.

International transient students must meet requirements for regular international student admission.

VI. CORE Scholars/Dual Enrollment

A student may be admitted as a CORE Scholars/Dual Enrollment high school student by meeting the following conditions:

- Applicants must have earned a "B" average or better in ninth grade work.
- Applicants must have completed the ninth grade before enrolling as CORE Scholars/Dual Enrollment students.
- All applicants must have written permission from their principal and/or superintendent.
- All applicants must submit an application to the University as a CORE Scholars/Dual Enrollment student
- Dual enrollment credit for high school units may be granted by the school system. High school units may be earned in addition to college credits with the permission of the superintendent.

CORE Scholars/Dual Enrollment students are subject to all rules and regulations of the University as well as its rights and privileges. CORE Scholars/Dual Enrollment students may register for 100- or 200-level courses in any academic field in which the student has completed high school requirements and/or prerequisites. CORE Scholars/Dual Enrollment students must maintain a "C" average or better in all attempted university coursework, and a "B" average in high school.

HOW TO APPLY

First, students should contact their high school counselor or principal and request that a High School Approval Form be submitted to JSU for them to participate in the CORE Scholars/Dual Enrollment Program. Applicants must have earned a "B" average or better in 9th grade work. Students must have the permission from the school counselor, principal or superintendent to participate in the CORE Scholars/Dual Enrollment Program. Second, students who are approved should apply online by completing the CORE Scholars/Dual Enrollment High School Application.

VII. Early Admission

To accommodate high school students with exceptional ability, Jacksonville State University considers them on an individual basis for early admission. Students who wish to enter college after completing the 11th grade in high school must present evidence that admission to college would be more beneficial than continuation in high school. Such individuals are considered for admission as regular students.

Minimum requirements for early admission include a grade of "B" on academic subjects in high school and an ACT composite score of 26. To consider an applicant, the following material must be presented to the Office of Admissions for review by the Admissions Committee.

1. A letter of request from the applicant.
2. One copy of the official high school transcript.
3. The official ACT report.
4. A letter of recommendation from the high school principal or superintendent.
5. A letter of approval from parent(s) or guardian.
6. A completed application to the University with the non-refundable application fee.

ORIENTATION

First year students, under the age of 25, must attend an orientation session prior to the semester they wish to attend (See section: APPLICATION PROCEDURES). The orientation/advisement session includes a brief introduction to campus life, academic advisement, schedule preparation, and registration. Following registration, students can obtain an I.D. card, and automobile registration. Questions regarding orientation should be directed to the Office of Student Life.

JACKSONVILLE STATE UNIVERSITY IN GADSDEN

Jacksonville State University in Gadsden (JSU-Gadsden) offers junior and senior level undergraduate courses and graduate courses on the campus of Gadsden State Community College in Gadsden, Alabama. The calendar for JSU-Gadsden is the same as the university calendar, and all university policies and regulations apply.

Drawing students primarily from Etowah County and the counties adjacent to it, JSU-Gadsden offers the majority of its classes in the late afternoon and evening, to meet the needs of working adults. Registration and academic advisement are provided at the Gadsden Campus for all majors.

JSU-Gadsden is a contact and advisement center for the Presidential Transfer Scholarship. Students can obtain information about the qualifying criteria and how to apply for the scholarship. Information is also available about the ***FUSION!*** co-enrollment program with select community colleges. For more information about either of these programs, contact JSU-Gadsden at 256.549.8390.

TUITION AND FEES FINANCIAL POLICIES

Jacksonville State University's fees have remained lower than those charged by most other quality institutions in the state and nation. Small increases are required, however, as our costs rise.

Tuition and Fee Rates

As a student at JSU, it is your responsibility to pay all tuition and fees by the published due date.

Not doing so will result in your registration being cancelled.

Current tuition and fees can be found at www.jsu.edu/bursar/tuition.html.

ALL TUITION AND FEES ARE SUBJECT TO CHANGE.

Payments

Payment may be made by one of the following ways: The Bursar's Office cashier window, 2nd floor of Bibb Graves Hall; via the web at <http://my.jsu.edu>; by a valid checking or savings account; by credit card or by mail with a check or money order, which must be **received** in the Bursar's Office by the published due date. Students are responsible for knowing all registration and fee payment dates.

Any parking decals, traffic fines, I.D. reprint charges, etc., are due when the charge is applied to the student account.

Payment Plan

Jacksonville State University offers students an installment plan to budget the costs of tuition and university housing and other fees. The details for the payment plan can be found at www.jsu.edu/bursar/PaymentPlan.html.

Checks

When paying by check, Jacksonville State University is authorized to either use the information from the check to make a one-time electronic fund transfer from your account or to process the payment as a check. In the event a check presented is not honored by the bank, JSU will charge the current maximum fee allowed by the State of Alabama for each return. Administrative withdrawal from the University could result if a returned check is in payment for tuition and/or fees. After two (2) returned checks, the privilege of paying by check will be forfeited. No Counter checks will be accepted. The University is unable to cash personal checks.

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 United States Customs and Immigration Services (USCIS) regulations concerning the USCIS Form I-20, section 8, for financial assurance. All international students are required to carry health and repatriation insurance.

University Housing

For information on room rates and facilities, please visit the Department of University Housing and Residence Life www.jsu.edu/housing.

Out-of-State Fees

Residency determination and the application of out-of-state fees and tuition will be made in accordance with the laws of the State of Alabama. Undergraduates should contact the Registrar's Office with any questions. Graduate students should contact the Office of the Dean, College of Graduate Studies. Petitions for in state tuition that are granted prior to the last day of the drop/add period will be effective that semester. After the last day of the drop/add period, in state tuition determination will apply to the next academic semester. Determination of in state tuition is not retroactive.

Withholding of Credits

Students are expected to meet all financial obligations to JSU. Registration and/or transcripts may be withheld if a student fails to meet their financial obligations.

In the event a student fails to satisfy a financial obligation to the University and the debt is referred to an outside attorney or agency for collection, in addition to the debt (principal plus applicable interest), the student will be responsible for all costs, charges and expenses incurred by the University, including attorney's fees and/or collection agency fees and expenses, not to exceed thirty-three and 1/3 percent (33.3%) of the debt, plus litigation expenses and court costs, if applicable. Debts owed the University may be referred out for collection as accounts or, where litigation has concluded, as judgments. Delinquent accounts may accrue interest at the contract rate or, where none is stated, at the maximum rate allowed by Alabama law. Any judgment obtained in favor of the University will accrue interest at the rate set by Alabama law for unpaid judgments. By providing your telephone number to JSU, you agree and give express consent that the University or anyone working on their behalf, including third party vendors, may contact you at the number provided by manually dialing the number or by using automated dialing technology.

Questions about charges and refunds should be addressed to the Bursar's Office.

Any student will have his or her complete academic record withheld until their account balance is paid in full.

Refunds or Charge Adjustments

I. Withdrawal: Tuition will be refunded as follows for Fall and Spring Semesters:

- 100% of total tuition charged if withdrawal from all courses from the semester occurs by the last day to register for the semester.
- 80% of total tuition charged if withdrawal from all courses from semester occurs within one (1) week after the close of the registration period.
- 50% of total tuition charged if withdrawal from classes occurs within three (3) weeks after the close of registration.
- No adjustment if withdrawal occurs thereafter.

Tuition will be refunded as follows for Summer semesters:

- 100% of total tuition charged if withdrawal from the summer semester occurs by the last day to register for that semester.
- 80% of total tuition charged if withdrawal from a summer semester occurs within one (1) day after the close of the registration period for that semester.
- 50% of total tuition charged if withdrawal from a summer semester occurs within two (2) days after the close of registration.
- No adjustment if withdrawal occurs thereafter.

Note: Withdrawal refers to ending enrollment in all classes at JSU for the semester.

Students who withdraw while on financial aid may have to repay a proportionate amount of aid received, and may owe the University money. Please check with the Office of Student Financial Services or the Bursar's Office for more details. If you live in university housing, please contact the Department of University Housing and Residence Life for the housing refund policy.

II. Change of Course(s) or Drop:

Tuition will be refunded as follows for Dropped Courses during all semesters:

- 100% of total tuition charged for the dropped course if the drop occurs by the last day to register.
- No refund for dropping of a course after the last day to register for the semester.

Note: Drop refers to dropping one or more courses and still enrolled in any other course(s) for the semester.

STUDENT FINANCIAL SERVICES

Jacksonville State University offers a broad program of financial aid to assist as many qualified students as possible. Since the University cannot meet the financial needs of all applicants, students are also urged to investigate outside sources of aid.

Most aid programs are based on the individual need of the applicant. Demonstrated financial need is determined by completing an independent, standardized need analysis form called the Free Application for Federal Student Aid (FAFSA) on the web at www.fafsa.gov. The JSU Title IV Code is 001020.

The FAFSA contains questions pertaining to the student's assets, income, year in college, etc. Students who are dependent on their parents, based on Federal Student Aid guidelines, must also submit information concerning parental income, assets, and other items.

Once the applicant completes the FAFSA, it is to be submitted via the internet at www.fafsa.gov. In approximately 7-10 business days, the processor sends the applicant a Student Aid Report and also forwards information to the college(s) the applicant lists to receive the data. It is the student's responsibility to check his/her JSU email and MyJSU for detailed information. The Student Aid Report is used to determine eligibility for the Federal Pell Grant and other financial aid programs, as it contains the expected family contribution to the applicant's cost of attendance.

Applicants and their parents are cautioned to complete all forms as honestly and accurately as possible. Any person who knowingly makes false statements is subject to a fine or imprisonment or both under provisions of the United States Criminal Code. Applicants are also reminded that they may be asked to substantiate information they submit on the need analysis. Each year the federal government selects approximately 30% of all applicants for verification. Those selected for verification must provide documentation, such as IRS Tax Return Transcripts in order to receive financial aid.

Note that application for financial aid must be made for each academic year; no awards are automatically renewed from year to year. Although the University accepts applications throughout the academic year, March 15 has been established as the preference deadline for applying for most types of assistance.

Those interested in detailed information on federal financial aid should request The Student Guide by writing the Federal Student Aid Information Center, P.O. Box 84, Washington DC 20044. Additional information may also be secured from the University Office of Student Financial Services, or from the Internet at www.nasfaa.org.

Note that information provided herein 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.

Students who apply for federal assistance are required to use their Social Security Number for identification purposes. The U.S. Department of Education's legal right to require the use of Social Security numbers for eligibility for the Title IV programs is based on Section 484(a)(4)(B) of the Higher Education Act of 1965, as amended. Complete information on usage of your Social Security number is located in the Free Application for Federal Student Aid.

Following is a brief description of the different assistance programs:

GRANTS

Grants are gifts based on need and do not have to be repaid. Students from low and lower middle income families may qualify for a grant.

Federal Pell Grant

The Federal Pell Grant is an entitlement program for undergraduate students who have not earned their first baccalaureate degree.

To apply, submit the FAFSA as soon as possible after the FAFSA opens on the web and list Jacksonville State University (Code 001020) to receive the report. Also submit any other documentation that is required to the Office of Student Financial Services preferably by March 15.

Federal Supplemental Educational Opportunity Grant (FSEOG)

Students who are Pell eligible and who have the greatest demonstrated financial need are given first consideration for this grant. It is restricted to students who have not received their first baccalaureate degree.

To apply, submit the FAFSA as soon as possible after the FAFSA opens on the web and list Jacksonville State University (Code 001020) to receive the report. Also submit any other documentation that is required to the Office of Student Financial Services preferably by March 15.

Alabama Student Assistance Program (ASAP)

Undergraduate students who have not earned their first baccalaureate degree and who are residents of Alabama are eligible to apply for this grant. The grant is restricted to Pell eligible students with the greatest demonstrated financial need. To apply, submit the FAFSA as soon as possible after the FAFSA opens on the web and list Jacksonville State University (Code 001020) to receive the report. Also submit any other documentation that is required to the Financial Aid Office preferably by March 15.

State Grants from Other Agencies

Several other states offer grants for their residents who attend college in other states. Students residing outside Alabama should contact their state grant educational agencies for information on these grants.

LOANS

The William D. Ford Federal Direct Loan Program (Direct Loan)

JSU participates in the Federal Direct Loan Program. Repayment begins six months after the student's enrollment drops below half-time status.

There are three types of Federal Direct Student Loans: Subsidized, Unsubsidized and Parent Loan for Undergraduate Students (PLUS).

Federal Direct 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.

Federal Direct 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 at a later date and be enrolled in at least half time.

Parent Loan for Undergraduate Students (PLUS)

A PLUS loan is a non-need based loan. Repayment of principal and interest begins 60 days after the loan has been disbursed. Parents interested in obtaining this loan must follow the PLUS instructions to apply from the Office of Student Financial Services. Students interested in receiving a PLUS loan only must first complete the FAFSA form.

To apply for a subsidized or unsubsidized loan, submit a FAFSA as soon as possible after the FAFSA opens on the web, along with any other documentation that is required to the Office of Student Financial Services. The preference deadline to apply is March 15. The Office of Student Financial Services will notify applicants of their eligibility.

More information regarding Direct Loans may be located at www.jsu.edu/finaid, select types of financial aid, select loans.

Annual Loan Limits

Annual loan limits for the Federal Direct Student Loan Program for dependent students are:

Freshmen, \$5,500; sophomores, \$6,500; juniors and seniors, \$7,500.

Annual loan limits for the Federal Direct Student Loan Program for independent students are:

Freshmen, \$9,500; sophomores, \$10,500; juniors and seniors, \$12,500; and Graduates, \$20,500.

Parents may borrow up to the cost of education on the PLUS program.

The aggregate loan limit for dependent students is \$31,000.

The aggregate loan limit for independent students is \$57,500.

NOTE THAT UNDERGRADUATE STUDENTS MUST BE ENROLLED FOR AT LEAST SIX (6) UNDERGRADUATE HOURS TO BE CONSIDERED ELIGIBLE TO BORROW A STUDENT LOAN.

FEDERAL PERKINS LOANS – JACKSONVILLE STATE UNIVERSITY NO LONGER PARTICIPATES IN THE FEDERAL PERKINS LOAN PROGRAM.

CAMPUS EMPLOYMENT

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

Cooperative Education

Students interested in Cooperative Education must complete a co-op application in the Office of Career Services, Room 207 Merrill Hall. Cooperative Education is designed to provide the student with valuable, paid work experience related to their major field of study while earning a degree. As part of this program, employers provide the opportunity for the student to build on classroom skills and knowledge while working.

For more information, visit http://www.jsu.edu/careerservices/students_co-op.html.

Federal Work-Study

The Federal Work-Study Program is administered through funds provided by the Federal Government and Jacksonville State University. Eligible students work up to an average of 15 hours per week and earn the minimum wage.

To apply, submit the FAFSA as soon as possible after the FAFSA opens on the web, preferably before March 15, and list Jacksonville State University (Code 001020) to receive the report.

University Student Employee

Students who do not qualify for Work-Study may be eligible to work on the University Student Employee Program. Students interested in this program should contact individual departments for possible job placement. This program is not based on financial need.

Off-Campus Employment

Students desiring to find part-time work in the local area must visit the Career Services web page at www.jsu.edu/careerservices for current job listings.

SCHOLARSHIPS

Jacksonville State University offers various scholarships for entering freshmen, graduate students as well as returning students and transfer students. Academic scholarships are given consideration to entering freshmen based on the receipt of official ACT and/or SAT test scores. Most scholarships are based on the applicant's academic or extracurricular record, while some are based on demonstrated financial need. Those requesting scholarships based on need should also submit a Free Application for Federal Student Aid (FAFSA). The quickest way to apply for FAFSA is online at www.fafsa.gov. Consult our Scholarship Listing (www.jsu.edu/finaid/scholarships/types.html) for information pertaining to individual requirements and/or restrictions of scholarships offered. Scholarship offers are subject to applicant being unconditionally admitted to the University and available funding. The scholarship application period is October 1 and the deadline is March 1. Application is required for all scholarships.

In-State Scholarship Tuition

Full-time undergraduate students, who are receiving a Jacksonville State University (JSU) funded scholarship based on merit, ability or performance, will be changed from the out-of-state tuition status to in-state tuition.

Leadership Scholarships

Leadership Scholarships are awarded to students based on each applicant's participation in high school activities, community service, and academic record. March 1 is the absolute deadline to apply. Leadership Scholarships pay full in-state tuition (up to 12 traditional classroom semester hours) per semester for up to two years.

Presidential Transfer Scholarship

JSU offers a Presidential Transfer Scholarship to students in the graduating class from Alabama Community Colleges. The minimum requirement is a 3.5 GPA and the student has never attended JSU as a full-time student.

Athletic and Music Scholarships

Full and partial scholarships are offered for participants in the University's Varsity Athletic Programs. Contact individual head coaches of these sports for more information, or the Athletic Office at (256) 782-5368.

Full and partial tuition scholarships are offered by the University's Band/Music Department. For more information, contact the Music Department at (256) 782-5559.

Veterans Benefits

For more information about the Office of Veterans Affairs, eligible veterans may visit www.jsu.edu/finaid/veteransaffairs/index.html.

Military Tuition Assistance Program

Tuition assistance is available to cover tuition and book expenses for persons who are members of the Armed Services. Selection of recipients is made by the Military Branch Education Office. Those interested in applying should contact his/her unit commander for the necessary application.

Alabama G.I. Dependents Scholarship Program

The Alabama Department of Veterans Affairs offers financial assistance to eligible dependents (child, stepchild, spouse or un-remarried widow or widower) of disabled veterans (living or deceased) who were permanent civilian residents of Alabama prior to entry into military service. Other qualifying veterans categories are former prisoners of war, declared missing in action, and those who died in service. Maximum educational benefits include tuition and required textbooks. For more information, contact the nearest Veterans Affairs Office, located in each Alabama county Administration Building. The Office of Veterans Affairs is located on the first floor of Bibb Graves Hall, Room 105, to assist students.

Vocational Rehabilitation Assistance

Alabama residents who have disabilities may be eligible for assistance through the Vocational Rehabilitation Service. Alabama residents needing more information should contact this agency at 2127 East South Blvd., Montgomery, AL 36199, 1-800-441-7607. In other states offering this assistance, students should contact the agency in their state.

Prepaid Affordable College Tuition (PACT) Program

PACT is a state program through which contracts are purchased to pay four years of undergraduate tuition and qualified fees at public institutions. The Alabama PACT administrator can be contacted at 1-800-ALAPACT (252-7228). Age limits apply to students enrolled in the program. A copy of PACT Eligibility letter must be provided to the JSU Scholarship office during the enrollment period – Fax (256) 782-8132. In other states offering this assistance, students should contact the agency in their state.

ROTC

The Army offers ROTC scholarships on a competitive basis for select students who are strongly motivated towards service in the United States Army and who meet all application prerequisites. Four-year scholarships are available to entering freshmen who apply as seniors in high school. Two- and three-year scholarships are awarded to outstanding students on campus. Recipients of Army ROTC scholarships incur a contractual obligation with the United States Government and must meet all Army ROTC basic and advanced course requirements for commissioning. Scholarship

students who complete the Army ROTC course of instruction are commissioned as second lieutenants in the active Army, Army Reserve or Army National Guard.

These scholarships provide tuition and books up to a maximum limit. Additionally, scholarship recipients also receive a monthly stipend for a maximum of ten months of each academic year. Recipients are also required to attend a five-week advanced camp usually during the summer after their junior year, during which time they receive pay and travel expenses.

For those Army ROTC scholarship recipients coming to JSU for the first time, competitive scholarship supplements are available. Additionally, Jacksonville State University also offers two competitive scholarships for nursing students who are willing to enter and complete the ROTC program. The nursing scholarship includes tuition for the five semesters of clinicals. Contact the Professor of Military Science for specific details on these and all other Army ROTC scholarship opportunities.

SATISFACTORY ACADEMIC PROGRESS POLICY

Federal regulations require students to be making satisfactory academic progress toward graduation while receiving financial aid. Satisfactory Academic Progress includes both qualitative, quantitative, and pace and rate of progression criteria. Jacksonville State University reserves the right to monitor satisfactory academic progress periodically throughout the calendar year. Please go to www.jsu.edu/finaid, select financial aid forms, select satisfactory academic progress policy for the academic year that you are attending to view the current policy.

AWARDING, ACCEPTANCE AND PAYMENT OF FINANCIAL AID

Students who are determined to be eligible for Federal Pell Grants, Federal Supplemental Grants, Federal Direct Loans, (Alabama or other state grants), and Federal Work-Study should receive an instruction letter via JSU email for document requests and offers of financial aid. Once the offer of financial aid has been accepted on MyJSU, all assistance (with the exception of Federal Work-Study) and scholarships awarded by the University may be credited to the student's account. A check may be sent to the student's campus mailbox or electronically deposited in the student's bank account for any remaining balance.

Students may use scheduled financial aid (with the exception of Federal Work-Study) to confirm classes and/or university housing costs if their assistance has been processed by the required payment dates. Scheduled financial aid may be viewed on MyJSU. More detailed information on paying confirmation costs is located on the Bursar's Office website, www.jsu.edu/Bursar.

ENROLLMENT REQUIREMENTS

All financial aid commitments are contingent upon actual enrollment at the University. Most programs require at least half-time status (six hours) for eligibility while the Federal Pell Grant Program requires full-time (twelve hours) for maximum benefits during the regular terms. Six hours are considered half-time during the Summer term. Questions pertaining to individual program requirements for maximum benefits should be addressed to the Office of Student Financial Services.

Federal assistance is available only to students who are enrolled in a degree seeking program. Students must be regularly enrolled in a degree seeking program in order to be eligible for Federal financial aid. Those accepted into the non-traditional undergraduate admission category (students who are allowed to earn up to 15 semester hours prior to fulfilling regular admission) are therefore ineligible until such time as admissions requirements are fulfilled. Other categories of students who are ineligible include those accepted as transient, special, or the accelerated high school program. Federal/State Financial Aid Regulations and the Federal Taxpayer Relief Act of 1997 require those students seeking assistance use their social security numbers in applying for aid.

Students who withdraw or stop completing academic related activity, may have to repay a proportionate amount of assistance disbursed for that term. Students who receive a full Federal Pell Grant and then drop to less than twelve hours are reminded that they have used a full semester's entitlement of the grant. Complete information on Return of Title IV Funds is located on the web at www.jsu.edu/finaid.

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 Office of Student Financial Services 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.

AID DURING THE SUMMER TERM (MAY, JUNE, JULY)

Students who attend during the summer term may qualify for financial assistance if they have remaining eligibility. Federal Pell Grant may be available for students who meet federal requirements. Supplemental Educational Opportunity Grants and Alabama State Grants are generally not available. Most assistance is in the form of Federal Direct Loans for students who have remaining eligibility (see annual loan limits).

While most programs require at least half-time (six hours) for eligibility, short terms are combined into one for eligibility purposes. Because of the brevity of these terms, students are urged to register for all the sessions they plan to attend. Students must have a completed FAFSA, other required documentation and register for classes.

NONDISCRIMINATION

All financial aid is awarded without regard to age, sex, race, religion, physical or mental handicap, or national origin. Most financial aid is available only to citizens, nationals, or permanent residents of the United States. The University does provide scholarships to foreign students accepted to its International House Program.

SOME AID SUBJECT TO IRS TAX LAWS

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

TAX 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 the Hope Scholarship Tax Credit for freshmen and sophomores, and the 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.

DEPARTMENT OF UNIVERSITY HOUSING AND RESIDENCE LIFE

The Department of University Housing and Residence Life provides a variety of living options. There are traditional residence halls and apartments that enhance a community environment.

The Department of University Housing and Residence Life operates and maintains eight residence halls and over 700 apartments. To be eligible to live in university housing a student must be admitted to Jacksonville State University in good standing and enrolled as a student. The student will be required to satisfy these eligibility standards throughout the academic year and to inform the Department of University Housing and Residence Life of any changes in their status that may affect their eligibility.

Students must apply online at www.jsu.edu/housing/apply.html using their MyJSU username and password. A nonrefundable application fee of \$150 is required at the time of submission. The priority deadline for applications is May 1. Room assignments are made based on the date in which applications are received; therefore, space may become limited before the May 1 priority deadline.

If students have a roommate preference, they must indicate their preference on the housing application/lease agreement. Roommate requests must be mutually requested and must include the correct student number of each roommate. Both roommate applications/lease agreements must be submitted by May 1 for the request to be considered. Both roommates must also select the same living options in the same order of preference. Lease rates are subject to change pending approval from the Board of Trustees of Jacksonville State University. The lease agreement is a legally binding document for the full academic year. Students are financially responsible for all room charges for the fall and spring semesters.

An assigned space must be claimed by the end of the first day of move in or the space will be reassigned.

Students seeking to cancel their lease agreement should visit www.jsu.edu/housing_for for more information regarding deadlines and monetary penalties.

All first-year students are required to live on campus. A full list of exemptions can be found online at www.jsu.edu/housing/faq.html.**

**Students who meet exemptions may reside on campus if desired.

For more information regarding rates and or facilities, please visit www.jsu.edu/housing.

DINING SERVICES

The meal plan account provides for prepaid meals at Hopper Dining Hall and the Gamecock Diner in any combination of the all-you-care-to-eat meals at breakfast, brunch, lunch or dinner. The plan also provides a declining balance account of flex dollars to be used at campus locations such Hopper Dining Hall, Gamecock Diner, Chick-fil-A, WOW Wingery, Jazzman's Café, Freshen's, CockyQ, and Baja Fresh Mexican Grill.

Resident Dining Meal Plan Options

If you live on campus in Crow, Curtiss, Dauge, Dixon, Fitzpatrick, Logan, Patterson, Sparkman, or Stadium Tower, your JSU account will be billed \$1485 for the plan and you will need to choose from the following options:

Unlimited Meals with \$50 Flex

This plan provides unlimited access for the cardholder to Hopper Dining Hall. It includes \$50 in flexible spending over the semester at the retail locations.

14 Meals Per Week with \$125 Flex

This plan provides any 14 meals throughout the week at Hopper Dining Hall or Gamecock Diner to be used by the cardholder. It also includes \$125 in flexible spending over the semester at the retail locations.

8 Meals Per Week with \$350 Flex

This plan provides the cardholder with any 8 meals throughout the week at Hopper Dining Hall or Gamecock Diner. It also includes \$350 in flexible spending over the semester at the retail locations.

Block 70 with \$700 Flex

This plan provides any 70 meals throughout the semester at Hopper Dining Hall or Gamecock Diner to be used by the cardholder, plus \$700 in flexible spending over the semester at the retail outlets.

Non-Resident Commuter Dining Options

If you are a commuter student and would like the convenience and ease of dining on campus, then you have several options available to you. You can choose from the above plans that are available to campus residents or choose from the additional plans listed below.

Block 50 with \$100 Flex..... \$495.00

This plan provides the cardholder with 50 meals over the semester at Hopper Dining Hall or Gamecock Diner, plus \$100 flexible spending per semester at the retail locations.

Commuter Flex Plan

This is a prepaid plan that works just like a debit card by using your student ID. You must purchase a minimum of \$110 or anything over this amount. It provides flexible spending over the semester at Hopper Dining Hall, Gamecock Diner and the retail locations. At Hopper Dining Hall and Gamecock Diner, the cardholder pays \$7.00 for breakfast, \$7.95 for lunch, \$8.86 for dinner and \$10.45 for special promotional meals. At the retail locations, the cardholder pays the cost per item selected.

Sample Flex Plans:

\$100 plus 10% tax.....	\$110.00
\$200 plus 10% tax.....	\$220.00
\$300 plus 10% tax.....	\$330.00
\$400 plus 10% tax.....	\$440.00
\$500 plus 10% tax.....	\$550.00

For more information on the dining program go to www.dining.jsu.edu or call 256-782-7242.

ACADEMIC REGULATIONS

GENERAL REQUIREMENTS

To be considered a candidate for graduation a student must fulfill the specific requirements for a particular degree as set forth in the following pages:

1. Complete 120-132 semester hours, determined by your Program of study, with a minimum "C" average 2.0 GPA. Earn a minimum of fifty percent of those semester hours from a four-year college or university, and at least twenty-five percent of semester hours must be resident work at JSU. Thirty-six (36) semester hours of credits presented for a degree must be in courses numbered 300 or above. No more than 12 semester hours in correspondence work may be counted toward a degree.
2. Earn a minimum "C" or better in each of his/her major and minor courses. Students working toward a degree from the College of Commerce and Business Administration must also have a 2.0 GPA in the business core [courses are identified in the Commerce and Business Administration section] overall and the business core courses in residence.
3. No matter what advanced standing candidates may have been admitted under, or what credits they may have transferred, they must earn credit at JSU for at least twelve hours of advanced work (courses numbered 300 or above) in their major subject or teaching field area and six hours in advanced work (courses numbered 300 or above) in his/her minor subject.

For education students, one-third of the total hours in each teaching field(s) must be advanced work. In addition, a minimum of 12 hours of advanced level courses in each single comprehensive teaching field, or a minimum of 9 hours of advanced level courses in each dual-teaching field must have been taken at JSU.

4. Students are expected to complete the general subject requirements for graduation during the freshman and sophomore years in so far as this is possible. In case of deficiencies, students must register for courses which will remove such deficiencies before they will be permitted to elect other courses.
5. A minor in addition to a major is required for all degrees with the exception of majors in integrated studies (formerly liberal studies), nursing, accounting, finance, management, marketing, applied manufacturing engineering, applied electronics engineering, industrial leadership, occupational safety and health management, social work, family and consumer sciences, the B.S. degree when the major is economics, and the B.F.A. degree in art. The B.F.A. degree and the B.S. in FCS require an area of concentration in lieu of a minor. However, degrees for those seeking teacher certification require teaching field(s) in lieu of majors/minors.
6. Students entering with advanced standing or earning credit from another institution after initial enrollment at JSU must earn a minimum "C" average, 2.0 GPA, at this institution.
7. Students select their major and minor subjects before the end of their sophomore year, or if a junior or senior transferring from another college, before they register for any work leading to a degree from this institution. The choice of their major and minor fields must be made only after consultation with the professors/advisors in these fields and must have the approval of both the major and minor professors/ advisors. Note: Students pursuing a degree in education will need to select their teaching field(s) by the end of their freshman year. Note: Candidates including transfers must submit minimum requirements and a portfolio for review and approval by the Art Department prior to assessment into the B.F.A. degree program.
8. Before each registration, students confer with their advisor and secure approval of the choice of courses for the major and minor(s) or electives, and of sequences of such courses.
9. Successfully complete the English Competency Examination, EPP/CLA, and STU 101 (See Test and Examinations Section).
10. Apply to the appropriate Dean no later than the last day to add classes in the semester in which you will graduate.

Catalog Requirements and Time Limits

Degree requirements and other university regulations are established by the catalog current at the time of initial enrollment. Students may complete requirements under the catalog current at that time or any later catalog during his/her JSU enrollment provided the undergraduate degree is completed within twelve (12) years from initial collegiate enrollment. Students not completing the undergraduate degree within twelve (12) years from initial enrollment must update to a more current catalog as negotiated with the College Dean. Students may not combine components of different catalogs.

Students tracking toward transfer enrollment may follow the JSU catalog in effect at the time of initial collegiate enrollment. However, students should be advised that the twelve (12) year catalog entitlement would then start upon initial collegiate enrollment rather than initial enrollment with Jacksonville State University.

Additional Bachelor's Degree

Students seeking to earn additional bachelor's degrees must complete a minimum of 32 semester hours in residence over and above the previously earned bachelor's degree and must meet all academic requirements for the degree sought as stipulated in the Undergraduate Catalog at the time of enrollment in the additional degree program. Students may not be awarded multiple degrees in the same ceremony.

Student Responsibility for Degree Requirements

It is the responsibility of each student to become familiar with degree requirements, graduation requirements, and all other aspects of satisfactory academic progress. Each student is assigned an academic advisor to assist in planning course schedules and give advice on timely graduation planning. However, the ultimate responsibility for understanding and completing degree and graduation requirements lies with the student.

STUDENT LOAD

1. Full-time status is defined as 12 hours, 6 semester hours is half-time. Students on academic probation must limit their course work during each semester to no more than 13 semester hours. No more than 21 semester hours total may be scheduled in any semester.
2. Students can find their grade point average on the transcript by dividing the number of GPA hours (all hours for which registered) into the quality points earned. Note section on Replacement Course Policy on page 25.
3. Students may be enrolled at more than one college/university at the same time. Students enrolled at both Jacksonville and another college/university are subject to the academic standards and guidelines of Jacksonville State University.
4. Students concurrently enrolled at Jacksonville State University and any other institution may take a maximum of 21 semester hours during the semester.
5. Questions concerning student load may be addressed to the Registrar's Office, Room 113 Bibb Graves Hall, 256-782-5400, or registrar@jsu.edu.

CLASSIFICATION OF STUDENTS

<u>Hours</u>	<u>Classification</u>
0-31	Freshman
32-63	Sophomore
64-95	Junior
96+	Senior

REGISTRATION

All students must register before being admitted to classes. The appropriate Academic Dean and other members of the faculty advise the students in regard to their program of studies. It is urgent that a student register during the days set apart for that purpose. Any student whose credits are being withheld is not eligible for registration. The institution reserves the right to withdraw any course and close or divide sections whenever it is deemed appropriate.

LATE ENTRANCE

Students registering on the first day of class or later will be charged a late registration fee. Students will be responsible for class work from the first class meeting and incur normal absences for classes missed.

AUDITING COURSES

Auditors must make application for admission and pay the \$35.00 non-refundable application fee if they are not already regularly enrolled students. The cost is \$25.00 per semester hour. A person may audit courses with the written approval of the instructor of the subject, provided there is space available in the class desired. Registration must be processed in the Registrar's Office. Auditors are listed on the class roll but do not participate in classroom discussions, take tests or final examinations, or make reports, and will receive no credit or grades.

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

WITHDRAWALS

Students may withdraw without any academic penalty until the 'Last Day to Withdraw Without Academic Penalty'. After this date if the student is passing, the permanent record will reflect the notation "withdrew passing," which indicates good standing and the privilege of readmission. If a student is failing, the permanent record will show the notation "withdrew failing." This is equivalent to a grade of "F" for calculation of grade point average. Refer to the academic calendar for deadline dates for withdrawals without penalty. No Withdrawals will be processed after the Last Day to Withdraw, see the academic calendar for dates. Students must notify the Registrar's Office by completing the withdrawal form online. For mailed requests, the postmark will be used to determine the withdrawal date.

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

Any student who has registered but does not wish to attend must notify the Registrar's Office by completing the withdrawal form online by the last day to register for the semester to receive a full refund of tuition charged. For mailed requests, the postmark will be used to determine the withdrawal date. Failure to assure this notification may result in academic and financial penalty. Please contact housing for residence hall refund policy. Students who are scheduled to receive financial aid must also notify the Office of Student Financial Services in writing (fax or mail) or JSU email by the last day to register for the semester to cancel their financial aid. Students who fail to notify the Office of Student Financial Services will be subject to financial penalty.

Medical/Compassionate Withdrawal

A student may request and be considered for a Medical Withdrawal when extraordinary circumstances, such as a serious illness or severe injury prevent the student from continuing classes. This covers both physical and mental health difficulties.

A student may request and be considered for a Compassionate Withdrawal when extraordinary personal reasons, not related to the student's personal physical or mental health (for example, care of a seriously ill child or spouse, or a death in the student's immediate family), prevent the student from continuing classes.

Medical or compassionate withdrawals will be considered for the current or immediate preceding semester only.

A student must request a medical or compassionate withdrawal by contacting the office of the Vice President for Student Affairs, Bibb Graves Hall, Rm. 102, (256) 782-5020.

****Students receiving federal financial aid should meet with the Director of Student Financial Services before making a decision to request a medical or compassionate withdrawal.**

GRADING SYSTEM

The following represents the grading system used by the University and the basis upon which quality points are earned. The grade point average (GPA) may be determined by dividing the quality points earned by the GPA hours. The GPA is not rounded. The GPA is truncated to two places past the decimal for reporting purposes.

A — four quality points per hour (90-100)

B — three quality points per hour (80-89)

C — two quality points per hour (70-79)

D — one quality point per hour (60-69). This grade will not be assigned for EH 100, 101, 102, 103, 104, 348, LS 095, 096, 104, MS 100.

NC — No credits (0-69). This grade assigned only in English 100, 101, 102, 103, 104, 348, LS 095, 096, 104, MS 100 and STU 101.

F — No quality points (0-59). Failing grades may not be removed from the academic record. This grade will not be assigned for EH 100, 101, 102, 103, 104, 348, LS 095, 096, 104, MS 100.

P — Passing. Grade given for selected courses as specified in the course descriptions in this catalog. 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.

W — Withdrawn or Dropped class, non punitive

WF — Withdrawn failing (counts as an F)

WP — Withdrawn passing, non punitive

X — Audit – no credit.

I — Incomplete – non-punitive.

The grade of "D" is considered passing. However, a "D" grade will not be allowed to count toward fulfilling required courses in the major, minor, and teaching field.

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

Incomplete Grade – The grade of "Incomplete" or "I" may be assigned by an instructor if extreme circumstances prevent a student from completing course requirements and only if the student is passing the course. The "I" grade does not immediately affect a student's grade point average.

Completing the course requirements – The student is responsible for arranging to complete the remaining course requirements. One calendar year is allowed for completing the work. Grades of "I" will roll to "F" the last day before finals in the fall and spring semesters. They will roll on the day before grades are due in the final summer term. Students should not register for the course again. Once the student has completed all course requirements, the instructor submits a grade change to the Registrar's Office for recording. The Registrar then notifies the student of the grade change. Failure to complete course requirements within one calendar year will result in a grade of "F" being assigned.

Requesting extensions – before the end of one calendar year, the student must submit a written request for an extension to remove an Incomplete. The Instructor, Department Head, and Dean must approve the extension before the Registrar grants an extension of time.

If at any time during the process, as detailed above, the Instructor is not available, the appropriate Department Head and/or Dean will represent the Instructor's interest.

REPLACEMENT COURSE POLICY

Students may improve their GPA by repeating, at JSU, courses taken previously at JSU in which they have earned a grade of "D" or "F". The student must earn a grade of "C" or better. All attempts will remain on the academic transcript. However, only the "C" or better will be used in determining the student's GPA with regard to minimum requirements for graduation and academic action (academic warning, probation, etc.). All course work, including repeated courses, will be used to calculate graduation honors.

This policy is effective for JSU course work only and is not applicable to any work that may have been earned at another institution. A grade of "D" is considered passing and the first pass will count in the GPA unless both the original and repeated class are taken at JSU.

This policy is not retroactive to repeated course work prior to the Fall Semester 1997. It should be noted that some programs have higher requirements for admission to, continuation in, and graduation from the program. Therefore, the replacement course flexibility may not apply to all degree programs.

Additionally, student athletes will be governed by the NCAA eligibility guidelines.

DUPLICATION OF COURSES

Credit toward graduation for any course, or part of a course, will not be granted twice. Once a course has been completed at JSU with a grade of "C" or better all further attempts will be excluded from the GPA and earned hours. Once a transfer course with a grade of D or better is presented for evaluation all further attempts will be excluded from the GPA and earned hours. If a higher grade is required by a specific program or major both grades will show on the transcript but the first pass will count in the GPA.

Select Jacksonville State University course numbers may be taken more than one time for credit. Any course number which may be earned for credit more than one time will be noted in the course description of the University Catalog along with the maximum number of times the course number may be utilized for credit without being considered a duplication of credit.

INSTITUTIONAL CREDIT

Institutional credit is awarded for successful completion of development courses. Specifically, these are EH 099, LS 095, and LS 096. Institutional credit earns the same value as regular academic credit but is not counted toward the minimum hours required for graduation.

Institutional credit is considered for full-time status, financial aid, and is included within the overall grade point average but does not count toward graduation. Grades earned for these courses will be "A," "B," "C," OR "NC."

MIDTERM/FINAL GRADES

At midterm grades can be viewed on MyJSU. Only grades of D or F are recorded at midterm. Grades can be viewed for a limited time only. Midterm grades are reported for fall and spring semesters only. Check the Academic Calendar for dates.

Final grades can be viewed through MyJSU for two weeks after the term ends. Final grades are also viewable permanently on the online transcript also available on MyJSU.

FINAL GRADE CHANGE

No grade except Incomplete (I) may be changed after the submitting of final grades except in the case of error in communication of student's grade to the Registrar's Office. **Within six weeks after the turning in of the grades, a teacher desiring to change a grade other than an Incomplete must make written application through the appropriate Department Head to the Registrar's Office, stating the reason for the error and the need to change.**

Students may not petition for grade changes beyond two weeks from the close of that semester.

GRADE APPEAL

The grade appeals process begins with a meeting between the student and the course instructor, and cannot proceed to any further stage unless this requirement is met. The formal process for appealing grades for each college is available in the Dean's Office of each college.

HONORS

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

1. Undergraduate student carrying 12 or more GPA hours in the fall and spring semesters will be recognized as follows.
 - a) Students who obtain a 4.0 grade point average for that semester will be listed on the President's List.
 - b) Students who obtain a grade point average between 3.5 and 3.99 for that semester will be listed on the Dean's List.
2. Honors at Graduation
 - a) The designation "cum laude" will be engrossed upon the diplomas of graduating students who obtain an average of 3.5-3.69 quality points on hours attempted.
 - b) The designation "magna cum laude" will be engrossed on the diplomas of graduating students who maintain an average of 3.7 to 3.89 quality points on hours attempted.
 - c) The designation "summa cum laude" will be engrossed upon the diplomas of graduating students who maintain an average of 3.9 to 4.0 quality points on hours attempted.
 - d) The designation "special honors in (the major subject)" will be engrossed upon the diplomas of graduating students who maintain a 3.5 average in the major field of study and a 3.25 overall average, both calculations computed on hours attempted.
 - e) Eligibility for Honors will be determined at the conclusion of the degree program.
 - f) Students who transfer to JSU or JSU students who take courses from another institution must attain the required grade-point-average in both the overall calculation and in the resident calculation for the various honors at graduation.
 - g) Note that the Replacement Course Policy, Academic Forgiveness and Second Chance listed elsewhere in this catalog, do not apply for purposes of Honors at Graduation.
 - h) The grade point average is truncated to two places past the decimal for reporting purposes and not rounded.

UNDERGRADUATE ACADEMIC STANDARDS POLICY

Satisfactory Academic Progress

Students at the University are required to meet a minimum cumulative 2.0 grade point average (GPA).

GOOD ACADEMIC STANDING

Students will be considered in “good academic standing” if they are eligible to take classes at Jacksonville State University.

ACADEMIC ACTIONS

I. Academic Warning

A student will be placed on “academic warning” at the end of any term in which the cumulative GPA is less than the required 2.0 cumulative GPA.

II. Academic Probation

A student will be placed on “academic probation” at the end of any term following a semester on “academic warning” when the cumulative GPA is less than the required minimum 2.0 GPA. Students on “academic probation” must limit their course work during fall and spring and summer semesters to no more than thirteen semester hours attempted. To avoid “academic suspension” a student must maintain a term GPA of 2.00.

III. Academic Suspension

A student will be placed on “academic suspension” at the end of any term following a semester of “academic probation” when the semester’s term GPA is less than 2.0 or the cumulative GPA is less than the minimum cumulative GPA required. A student placed on “academic suspension” will be suspended for one semester, after which students may return to the University on “academic probation.” (Note: from the last day of Spring Semester to the first day of Fall counts as one semester.) Upon return students must make a grade of “C” or better for each course or a 2.0 cumulative GPA. Students will be placed on “academic suspension” only once. Failure to maintain the required minimum cumulative GPA after “academic suspension” places the student on “academic dismissal.” No credit for the purpose of transfer may be earned from any other institution of higher education while a student is on “academic suspension.”

IV. Academic Dismissal

A student will be placed on “academic dismissal” following a semester of “academic suspension” when a suspension semester’s term GPA is less than 2.00 or the required cumulative minimum 2.0 GPA has not been achieved. “Academic dismissal” is for at least one calendar year (twelve months). No credit for the purpose of transfer may be earned from any other institution of higher education while a student is on “academic dismissal.”

V. Reinstatement

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

Students suspended or dismissed for academic reasons have the option of petitioning for reinstatement through the Office of the Vice Provost. Reinstatement is for one semester only. Any student under academic suspension or dismissal has the option of petitioning for reinstatement.

The reinstated student must maintain a grade of “C” or better **for each attempted course** during the reinstated semester. All requirements specified by the Office of the Vice Provost must be met. Among these are a course load of no more than the minimum full-time load, consultation with an academic advisor, and any special conditions necessary for the individual’s reinstatement, e.g., specific courses, removal of incompletes, or progress reports.

Students not maintaining the GPA requirements or any condition of reinstatement will be suspended or dismissed from the University. The reinstated student in an academic suspension status must remain suspended for one semester. The reinstated student placed in an academic dismissal status must remain dismissed for one calendar year (12 months). Upon reinstatement the student will be ineligible for financial aid, unless an appeal is made to the Financial Aid Appeals Committee.

The Office of the Vice Provost is responsible for maintaining an active file on each reinstated student and academic progress is monitored throughout the semester.

ACADEMIC FORGIVENESS

Occasionally, during a particular semester, students encounter personal, emotional or financial circumstances so devastating that performing academically at a level approximating their usual record of achievement becomes impossible. Normally, these students realize their situations in time to take the advisable course of action and withdraw from the University. If that is not done, however, and a student’s grades for the semester are decidedly below that student’s normal record, the student can petition for academic forgiveness. All course work taken, even hours completed satisfactorily during the semester for which forgiveness is declared, will be disregarded in the cumulative grade point average and as hours earned toward graduation. Academic forgiveness may be granted one time and is applicable only to JSU undergraduate course work.

Procedure

Students may petition for academic forgiveness for only one semester (any fall, spring, or summer term) already completed at the University, provided the student has a GPA of 2.0 or higher in residential work and overall.

Forms and details of this policy are available in the Office of the appropriate College Dean. Undecided majors should obtain this form and submit the petition to the Office of the Vice Provost located in Room 201 Bibb Graves Hall.

After review of the petition, by the Dean, the Dean's designee, or the Office of the Vice Provost, the Registrar's Office will adjust the academic record and notify the student.

Once granted, academic forgiveness cannot be reversed. Students should be aware that graduate and professional schools often compute grade point average over all hours attempted when considering applicants for admission. Additionally, students should realize that although a semester may have been academically forgiven for purposes of completing degree requirements, all JSU course work, including the forgiven semester, will be used in determining honors at graduation.

A petition will not be considered if the student has received a degree subsequent to the semester in question.

SECOND CHANCE

Undergraduate students who have interrupted their college career for a period of at least two consecutive calendar years, at any point on their transcript, may apply for the Second Chance Provision. Under this policy all course work completed at an earlier date will be eliminated from computation of the grade point average and cannot be applied toward a degree at Jacksonville State University. Such work will remain on the student's academic record, but will not be used in the computation of the grade point average for degree requirements. It will, however, be used to compute the grade point average for honors at graduation, class standing, and may be used for admission to graduate studies. Some undergraduate professional programs may require inclusion of all course work for admission to, continuation in, and graduation from the program. Students should seek advice from the appropriate college dean or designated person.

Students seeking Second Chance status will be required to follow the catalog in effect at the time of re-enrollment. Second Chance status may be granted only once and is irreversible. Second Chance also applies to transfer work. Students seeking to apply for Second Chance can obtain a form in the Registrar's Office.

CLASS SIZE

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

ATTENDANCE AT CLASSES

Specific policies on attendance may be established by individual departments and colleges. These policies will be communicated to the students through the class syllabus at the beginning of the semester. Students are held responsible for attendance at all class meetings.

SEQUENCE OF COURSES

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

CANDIDATES FOR DEGREES

Application for degree may be submitted to the office of the appropriate Dean after junior classification is attained but no later than the last day to register in the semester in which the student will graduate. Students who are unsuccessful candidates for graduation should contact their respective Dean's office regarding the procedure for re-applying for another graduation. Students must have satisfactorily completed the English Competency Exam (ECE) at least one semester before applying for graduation. All graduating seniors, traditional and distance education alike are required to take either ETS Proficiency Profile (EPP) or Collegiate Learning Assessment (CLA) prior to graduation...no exceptions or waivers. All on campus students will take EPP through Counseling Services, unless they are randomly selected to take CLA. Then they will take CLA through Counseling Services on campus. All online only students will have a choice: Take EPP on campus or take the EPP online using ProctorU or other JSU-approved proctoring service at a cost of around \$23 per student.

FIRST-YEAR EXPERIENCE COURSE

All students with fewer than 24 earned hours must take STU101: First-Year Experience Course. Students will achieve course objectives related to their overall adjustment to being a successful student at JSU. Topics discussed include how to: declare a major and develop a relationship with an academic advisor; understand components of MyJSU; know and understand JSU policies; participate in the summer reading program; learn and become active in JSU activities for students; understand and develop appropriate behavior for a college student; become familiar with student services; and acquire knowledge and skills necessary to prosper as a JSU student.

Beginning with the third attempt, and until the course has been successfully completed, a late registration fee of \$100 per semester will be charged.

STUDENT RESPONSIBILITY FOR DEGREE REQUIREMENTS

It is the responsibility of each student to become familiar with degree requirements, graduation requirements, and all other aspects of satisfactory academic progress. Each student is assigned an academic advisor to assist in planning course schedules and give advice on timely graduation planning. However, the ultimate responsibility for understanding and completing degree and graduation requirements lies with the student.

TESTS AND EXAMINATIONS

Students who miss examinations or announced classroom assignments for legitimate reasons may take makeups, which shall be scheduled by the instructor at a reasonable time and under reasonable conditions. No fee will be charged or penalty incurred (either in the nature of examinations or grading). The legitimacy of the excuse for missing the test is to be determined by the individual instructor.

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

ENGLISH COMPETENCY EXAMINATION (ECE)

Undergraduate students must successfully complete the University ECE. Students who have completed JSU's EH 101 and 102 or equivalent compositional courses from a regionally accredited institution and have earned 60 semester hours are eligible to take the examination. Students are strongly advised to complete this examination during the junior year. Students must pass the ECE at least one semester before filing an application for graduation. Students who fail the ECE must successfully remediate before retaking it; the remediation process must be completed before the semester in which the ECE is retaken. Students register for the examination online. The ECE is given once each fall, spring and summer. Distance Education students who take 100% of their classes online should contact Susan Sellers by email at ssellers@jsu.edu for online registration information.

Students who have earned a Bachelor's Degree from a regionally accredited institution are exempt from the ECE.

GRADUATION TEST REQUIREMENTS

The following is the newly revised procedure for EPP (ETS Proficiency Profile)/CLA (Collegiate Learning Assessment) that applies to all students seeking baccalaureate degrees.

All graduating seniors, traditional and distance education alike, are required to take either EPP or CLA prior to graduation...no exceptions or waivers.

All on campus students will take EPP through Counseling Services, unless they are randomly selected to take CLA. Then they will take CLA through Counseling Services on campus.

All online only students will have a choice: Take EPP on campus OR take it online using ProctorU or other JSU-approved proctoring service at a cost of around \$23 per student.

Beginning Fall 2014, all graduating seniors be required to take the ETS Proficiency Profile (EPP) instead of the CBASE to meet the graduation requirement. Beginning Fall 2014, incoming freshmen will be required to complete the EPP in order to meet the QEP assessment requirements. These same students will then be required to complete the EPP following Spring. By requiring graduating seniors to complete the same assessment, JSU will be able to conduct longitudinal studies to determine how effective the QEP components are and whether students are truly improving their critical thinking skills.

EARNING TRANSIENT CREDIT

JSU students who are eligible to take classes at JSU may attend a regionally accredited college or university as transient students to take acceptable course work. Students must have **written approval from the Registrar's Office prior to enrolling** at another college.

Students should note: (1) Course equivalencies should be checked with the JSU Registrar's Office. Students must have met the prerequisites for the requested course and must not have already earned credit for all or part of the requested course. (2) Students who are dually enrolled with JSU and another institution must abide by the JSU course load policy. (3) Students attending a community college must earn 60-64 semester hours from a senior institution. (4) Students must request an official transcript be sent to the JSU Registrar's Office when course work is completed.

NON-TRADITIONAL CREDIT

The maximum hours allowed for non-traditional credit (AP, CLEP, military service schools, correspondence, etc.) is 46 semester hours. Non-traditional credit awarded by Jacksonville State University is not considered as resident credit. Evaluations of non-traditional credit will be given on a case-by-case basis.

Military Credits

Advanced standing in accordance with that which is recommended by the American Council on Education and in accordance with University policy will be given to veterans who apply for it. Veterans desiring such credit must make application to the Registrar's Office by presenting a copy of their military transcript.

Correspondence Courses

Credit obtained through correspondence courses from other accredited colleges or universities may be counted towards graduation, provided that the total work done through correspondence does not exceed 12 semester hours. Only hours on which a "C" grade or better has been earned will be accepted.

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

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

Credit by Challenge

Students seeking to challenge courses for credit must discuss it with the Instructor and have the approval of the Department Head and Dean prior to enrollment in the course. A credit by challenge form may be obtained from the appropriate Dean's office. The grade earned will stand in the same manner as a course grade would if taken in normal fashion. Credit by challenge is permitted for undergraduate courses only and is not allowed during short terms. Previously attempted courses may not be challenged. Credit by challenge is not available for courses that are not suited to this procedure. Only one course may be challenged per semester.

CLEP (College Level Examination Program)

Jacksonville State University grants credit for CLEP scores. Students enrolling or enrolled at Jacksonville State University who are interested in attempting College Level Examinations should contact Counseling Services at 782-5475, 140 Daugette Hall.

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

Test results are evaluated by the Registrar's Office and recorded on a student's transcript if credit is awarded. Semester hours of credit toward graduation are awarded on the basis of CLEP tests but no grades or quality points are given. Therefore, CLEP credits will not affect grade point average (GPA).

CLEP Examinations and Credit Awards

Composition and Literature

American Literature without essay	EH 201	3 hours
American Literature with essay	EH 201, 202	6 hours
English Literature	EH 203, 204	6 hours
College Composition	EH 101, 102	6 hours
College Comp Modular	EH 101	3 hours
Humanities	HUM 100+	6 hours

Foreign Languages

French Language*	FH 101, 102	6 hours
German Language*	GN 101, 102	6 hours
Spanish Language*	SH 101, 102	6 hours

History and Social Sciences

American Government	PSC 100	3 hours
Human Growth and Development	PSY 222	3 hours
Introductory Psychology	PSY 201	3 hours
Introductory Sociology	SY 221	3 hours
Principles of Macroeconomics	EC 222	3 hours
Principles of Microeconomics	EC 221	3 hours
History of the United States I: Early Colonization to 1877	HY 201	3 hours
History of the United States II: 1865 to Present	HY 202	3 hours
Western Civilization I: Ancient Near East to 1648	HY 101	3 hours
Western Civilization II: 1648 to Present	HY 102	3 hours

Science and Mathematics

Biology	BY 101 / 103, 102/104	8 hours
Calculus	MS 125, 126	8 hours
Chemistry	CY 105 / 107, 106/108	8 hours
College Algebra	MS 112	3 hours
College Mathematics	MS 100+	6 hours
Natural Sciences	BY 101 / 103, Gen Elect	7 hours
Precalculus	MS 115	4 hours

Business

Financial Accounting	ACC 200, 210	6 hours
Introductory Business Law	FIN 292	3 hours
Information Systems and Computer Applications	CS 201	3 hours
Principles of Management	MGT 301	3 hours
Principles of Marketing	MKT 301	3 hours

Minimum CLEP score for credit award is 50.

*A score of 54 or higher in language will increase the credit award by 6 extra hours – 201 and 202.

AP (Advanced Placement)

Jacksonville State University awards credit for Advanced Placement courses taken in secondary schools and supplemented by the satisfactory scores on the national examination of the College Entrance Examination Board (CEEB) Advanced Placement program. A score of 3 or above is required to be considered for the possible award of credit. Prospective students should have their official score report submitted to the Office of Admissions as early as possible for review and possible award of credit.

Advanced Placement

Scores of 3, 4, or 5 are accepted.

Examination	Score	Equivalent	Hours
American History	3, 4, 5	HY 201 & HY 202	6
Art History	3	ART 111	3
	4, 5	ART 111 & ART 112	6
Studio Art – Drawing	3	ART 134	3
	4, 5	ART 134 & ART 234	6
Studio Art – General	3	ART 233	3
	4, 5	ART 233 & ART 240	6
Studio Art – 2-D Design	4, 5	ART 233 & ART 240	6
Studio Art – 3-D Design	4, 5	ART 233 & ART 240	6
Biology	3, 4, 5	BY 101/103 & BY 102/104	8
Chemistry	3	CY 105/107	4
	4, 5	CY 105/107 & CY 106/108	8
Computer Science A	3	CS 201	3
	4, 5	CS 201 & CS 230	6
English Lang. & Comp.	3	EH 101	3
	4, 5	EH 101 & EH 102	6
English Lit. & Comp.	3	EH 101	3
	4, 5	EH 101 & EH 102	6
European History	3, 4, 5	HY 101 & HY 102	6
French Language	3	FH 101 & FH 102	6
	4	FH 101, FH 102 & FH 201	9
	5	FH 101, FH 102, FH 201 & FH 202	12
German Language	3	GN 101 & GN 102	6
	4	GN 101, GN 102 & GN 201	9
	5	GN 101, GN 102, GN 201 & GN 202	12
World History	3, 4, 5	HY 101 & HY 102	6
Human Geography	3, 4, 5	GY 220	3
Calculus AB	3, 4, 5	MS 113 & MS 125	7
Calculus BC	3, 4, 5	MS 125 & MS 126	8
Music: Theory	3, 4, 5	MU 100	3
AP Physics 1	3, 4, 5	PHS 201/203	4
AP Physics 2	3, 4, 5	PHS 202/204	4
Physics B	3	PHS 201 & PHS 203	4
	4, 5	PHS 201/203 & PHS 202/204	8
Physics C: Mechanics	3	PHS 211 & PHS 213	5
	4, 5	PHS 211/213 & PHS 212/214	10
Physics C: Elec. & Mag.	3	PHS 212 & PHS214	5
	4, 5	PHS 211/213 & PHS 212/214	10
Spanish Language	3	SH 101	3
	4, 5	SH 101 & SH 102	6
Spanish Literature	3, 4, 5	SH 303	3
Government & Politics: Comparative	3, 4, 5	PSC 101	3
Government & Politics: United States	3, 4, 5	PSC 100	3
Macroeconomics	3, 4, 5	EC 222	3
Microeconomics	3, 4, 5	EC 221	3
Psychology	3, 4, 5	PSY 201	3
Statistics	3, 4, 5	MS 204	3

ACT/SAT Credit for English Composition

Students will receive advanced placement with credit for English Composition with the following scores:

English Subtest ACT 28-30 or SAT 620-680	EH 101	3
English Subtest ACT 31-36 or SAT 690-800	EH 101 and EH 102	6

Credits will appear on students' records after the completion of the first academic year.

For transfer students who have earned non-traditional credit for EH 101 with grades of A, B, C, or P, the University will honor those credits if EH 102 credit has also been earned with a grade of A, B, C, or P.

International Baccalaureate Program (IB)

Credit will be granted by Jacksonville State University to those who have achieved a score of five (5) or higher on the International Baccalaureate Program examinations.

International Baccalaureate Examination	Minimum Score	JSI Course Equivalent	Credit
Art, Studio	5	ART 134, ART 234	3, 3
Art, General – portfolio	5	ART 233, ART 240	3, 3
Biology (HL/SL)	5	BY 101 / 103, BY 102 / 104	4, 4
General Chemistry	5	CY 105 / 107, CY 106 / 108	8
Computing Studies	5	CS 230	3
Economics	5	EC 221, EC 222	6
English	5	EH 101 and EH 102	6
Appropriate World History Exam (HL/SL)	5	HY 101	3
Appropriate World History Exam (HL/SL)	5	HY 102	3
Appropriate U.S. History Exam (HL/SL)	5	HY 201	3
Appropriate U.S. History Exam (HL/SL)	5	HY 202	3
Mathematics	5	MS 115 and 125	8
Physics	5	PHS 211 / 213, PHS 212 / 214	10
Psychology	5	PSY 201	3

ONLINE EDUCATION

Jacksonville State University is committed to meeting the needs of all students. With a learning-centered focus, online education at JSU enhances this capability by utilizing an ever-expanding set of instructional and technological tools to reach students who may have previously been unable to participate in higher education. With modern approaches to teaching that bring instruction to students where they are, dedicated learners from all walks of life can engage in course work while continuing with their demanding personal and employment schedules. Greater flexibility in scheduling provided by online education courses allows JSU to serve a broad and diverse range of students by providing them with the education and tools needed to reach their goals, whether professional or personal.

JSU is dedicated to developing relevant, engaging, and high-quality courses for online distribution and our classes meet stringent requirements to ensure the same high levels of quality and rigor as those offered on campus. A growing number of graduate and undergraduate courses, as well as full degree programs, and certificates are offered online. For a listing of all online programs, refer to <http://www.jsu.edu/online>. Convenient to students who are unable to travel to JSU's main campus, online courses save time and travel expenses. Students may communicate with their instructors and collaborate with classmates in many and various ways such as email, instant messaging, web conferencing, threaded and voice discussion boards, course messages, blogs, wikis, and journals. Examinations may be administered online, or through a proctor at a distance. Students unable to attend on campus examinations should review the following website for more information on proctoring specifications: http://www.jsu.edu/online/current-students/test_security.html

Online@JSU

For further information about online education, students may contact Online@JSU at (256) 782-8172 or toll free at 1-800-231-JAX1, extension 8172, email online@jsu.edu, or visit the Online@JSU website at <http://www.jsu.edu/.online>

UNIVERSITY JUDICIAL SYSTEM

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), and the JSU Judicial Coordinator, 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 Associate Vice President for 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:



GENERAL INFORMATION

POLICY ON PRIVACY RIGHTS OF STUDENTS

NOTIFICATION BY THE UNIVERSITY

At least annually the University shall notify its eligible students of its policy on privacy rights of 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 Student Financial Services; (5) Placement, counseling, disciplinary, health and security records should be made to the 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 party except those set forth in (b) below. Any such request shall be made within seven days after the formal registration period ends; this request may not be withdrawn during the semester in which made. Directory information includes the student's name, mailing address, telephone listing, JSU email address, enrollment status: full time, part-time; currently enrolled or not, class/level, major field of study; participation in officially recognized activities and sports, weight and height of members of athletic teams, prior post-secondary institution(s) attended, JSU photograph(s), dates of attendance, thesis/dissertation title, degrees and awards received. The University reserves the right to deny directory information.
- (b) Without the written consent of an eligible student, other education records shall not be made accessible to any party other than the following: Other University officials and teachers who have a legitimate education interest in such records; officials of other schools in which the student seeks and intends to enroll; the Comptroller General of the United States; the Secretary of the Office of Education; the U.S. Commissioner of Education; the Director of the National Institute of Education; the Assistant Secretary for Education; authorized state educational authorities; the appropriate authorities in connection with the student's application for, or receipt of, financial aid; state and local officials or authorities to which such information is specifically required to be reported or disclosed by state law adopted prior to November 19, 1974; organizations conducting studies for, or on behalf of, educational agencies of institutions for the purpose of developing, validating, or administering predictive tests, administering student aid programs, and improving instruction, if such studies are conducted in such manner as will not permit the personal identification of students and their parents by persons other than representatives of such organizations, and such information will be destroyed when no longer needed for the purpose for which it is conducted, accrediting organizations in order to carry out their accrediting functions; parents of a dependent student or such parents, as defined in section 152 of the Internal Revenue Code of 1954;

or in compliance with judicial order, or pursuant of any lawfully issued subpoena, upon condition that the students are notified of all such orders or subpoenas in advance of the compliance there-with 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. The USA Patriot Act (USAP) amends the Family Educational Rights and Privacy Act (FERPA) to permit education institutions to disclose education records to federal law enforcement officials without student consent as follows:
- (a) By certifying that "specific and articulable facts" support the request, a U.S. Assistant Attorney General or higher-ranking official may obtain an *ex parte* court order that requires an educational institution to turn over education records considered relevant to a terrorism investigation.
 - (1) Institutions do not violate FERPA by responding to such an order without student consent.
 - (2) The institution need not make a record of the disclosure, as FERPA ordinarily requires.
 - (3) A College or university "shall not be liable to any person; for good faith disclosure of education records in response to such an *ex parte* order.

6. Release of Student Transcript:

In accordance with the Buckley/Pell Amendment to the Family Educational 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 or a request through the secure National Student Clearinghouse website in order to release that student's transcript(s). Additionally, the signed request must include the name and address of the institution or individual who is to receive the transcript(s), and the appropriate payment for the transcript(s). 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, or issued directly to the student in a sealed JSU envelope. Official transcripts may NOT be released if the student account currently has a balance or 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 or with a Record "HOLD" 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.

Permanent Educational Record

The permanent educational record of the student consists of all classes the student has taken at JSU, the grades earned for those classes, all classes transferred to JSU from other institutions of higher education, the grades earned for those classes and all non-traditional credit that has been granted by JSU to the student: CLEP, AP, Military Service Schools or Work Experience.

SOCIAL SECURITY NUMBER

The student's social security number is confidential. However, the Federal Taxpayer Relief Act of 1997 requires all institutions to report certain data using the social security number. Therefore, the social security number must be provided to Jacksonville State University in accordance with the legislation. Federal law requires that students who apply for financial aid must use their social security number.

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

Section 504/American with Disabilities Act (ADA) Compliance

Jacksonville State University has filed with the Federal Government an Assurance of Compliance with Section 504 of the Rehabilitation Act of 1973 as amended. The University does not discriminate on the basis of 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.

The coordinator of Section 504 and compliance officer for ADA is Don Killingsworth, (256) 782-5278. Students seeking accommodations may call Disability Support Services at (256)782-8380. Disability Support Services is located in 139 Daughette Hall. More information can be located online at <http://www.jsu.edu/dss>.

UNIVERSITY DRUG FREE WORKPLACE POLICY

Jacksonville State University hereby affirms its policy of providing a drug-free work place for its employees. In furtherance of this policy, the following guidelines and sanctions have been adopted.

A. Drug Use Policy

Federal law prohibits the illegal manufacture, distribution, dispensing, possession, or use of a controlled substance in the work place. (The "work place" is defined as Jacksonville State University property, vehicles, or participation in a JSU sponsored activity away from campus.) It is the policy of JSU to comply totally with this law and in compliance will: 1) Provide each student and employee a copy of this policy; 2) Require any student convicted of any criminal drug statute violation which has occurred in the work place to notify the University Judicial Coordinator within five (5) days of the conviction; 3) Require any faculty or staff member convicted of any criminal drug statute violation which has occurred in the work place to notify the Director of Human Resources within five (5) days of the conviction.

B. Legal Sanctions

Legal sanctions for possession, use or distribution of illicit drugs and alcohol may include imprisonment for periods ranging from less than one year (for first offense) up to life imprisonment without parole (for multiple convictions) and fines ranging up to \$500,000.

C. Health Risks

Marijuana:

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

Cocaine:

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

Alcohol:

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

Use of drugs and/or alcohol causes impairment of judgment and motor skills which greatly increases the risks of injury or death due to accidents.

D. Drug Awareness, Counseling, and Treatment

Counseling Services offers counseling to all students, faculty, and staff at Jacksonville State University. These services are without charge. These services may include intervention and other methods of therapy. Referrals may also be made to a facility approved under our health insurance plan. These services are conducted under the strictest confidence.

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 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.

PUBLIC SAFETY

The University provides a wide-range of public safety services to include law enforcement, security, parking, traffic enforcement, and crime prevention. Students, employees and visitors may report criminal incidents, accidents, and/or emergencies to the University Police.

UNIVERSITY POLICE DEPARTMENT CRIME STATISTICS

<http://www.jsu.edu/police/doe.html>

UNIVERSITY POLICE DEPARTMENT FIRE LOG

<http://www.jsu.edu/police/Fire.html>

MOTOR VEHICLES

Jacksonville State University Police Department has the authority to promulgate and enforce rules and regulations for the operation of motor vehicles on campus. The responsibility of obtaining knowledge of parking and traffic regulations rests with the motor vehicle operator. These rules and regulations are subject to enforcement on a year-round basis regardless of whether or not school is in session.

These regulations are provided and enforced to insure the safety of drivers, pedestrians and property, as well as provide adequate parking facilities for all who drive a vehicle on the Jacksonville State University campus. A parking and traffic plan can be successful only when all faculty, staff, students and visitors abide by the governing regulations.

Each faculty, staff, and student of Jacksonville State University who operates a vehicle on campus must register their vehicle with the University Police Department. Registration is available online at:
<http://my.jsu.edu/cp/home/loginf>

Visitors to campus may register their vehicles with the University Police Department 24 hours a day, 7 days a week and obtain a free parking pass. Visitors also have the option of registering their vehicles at the Information Center during business hours and obtaining a free parking pass. Should a visitor wish to obtain a visitor yearly decal they should pay \$25.00 in the Bursars office located in Bibb Graves Hall then bring the receipt, driver license and tag receipt/vehicle registration to the University Police department and obtain the yearly decal.

Parking rules and regulations are available online at:
<http://www.jsu.edu/police/traffic.html>.

Every vehicle parked on campus must have a JSU issued decal displayed on it. The vehicle must then be parked in a parking space which corresponds with the assigned decal zone. Commuters park in the outer parking lots near academic buildings and avoid driving on the main campus, while JSU residents park near their dorm or apartment and avoid driving to academic buildings for class. Limiting vehicle movement assist with keeping traffic congestion down which allows the Gamecock Express to run the assigned routes in a timely manner. Keep in mind with six thousand vehicles on campus daily those vehicle operators cannot relocated in the fifteen minutes allowed between classes without causing major delays at intersection on and around campus.

No parking on Trustee Circle, in the Gamecock Express Central Station or at Yellow Curbs. White curbs indicate the parking spot is reserved for University Owned vehicles (mail, maintenance, I.T. and police) unless a sign states otherwise (examples: would be Handicap, Visitor, 15 Minute Parking, Pannell Residents Only).

The parking map is available at <http://www.jsu.edu/map/> along with a copy of the signs marking the parking zones, bus routes, wireless locations, housing, emergency phones and dining areas on campus.

THE CYNTHIA H. HARPER CHILD STUDY CENTER

The Cynthia H. Harper Child Study Center at JSU is operated by the Department of Family and Consumer Sciences and supports the instructional goals of the Department. The Center provides students and faculty opportunities for study and research related to the child. The Center provides students enrolled in University courses opportunities to work with children in the preschool setting and provides children enrolled in the Center an environment which promotes optimum development.

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 \$500.00 for the Fall Semester, \$500.00 for the Spring Semester, and \$180.00 for the May Term. The Center is open from 7:15 a.m. to noon, Monday through Friday when JSU classes are in session. Application forms may be obtained from the Department of Family and Consumer Sciences.

MY JSU ELECTRONIC MAIL

All JSU students are assigned a JSU e-mail address when they are accepted for admission. Access to e-mail is through an easy to use web-based interface. For more information, visit the User, Security and System Support web page at <http://www.jsu.edu/dit/acns/email/index.html> or call (256) 782-8324.

ID CARD

JSU ID cards are made in the office adjacent to the Montgomery Food Court in TMB. Hours are 8:00 a.m.-4:00 p.m. Monday-Thursday and 8:00 a.m.-2:00 p.m. on Friday. The office is closed Saturday and Sunday. The office also closes 12:00 noon-1:00 p.m. for lunch Monday-Friday. Anyone wishing to acquire a JSU ID card must be currently enrolled at the University and present proof of enrollment and identification before the card can be issued.

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, and study guides. Textbook buyback days are scheduled for the week of finals at the end of fall, spring, and summer semesters. Extended operating hours are offered for the convenience of evening students.

MAIL CENTER

Each student enrolled at JSU is encouraged to obtain a campus post office box. All correspondence from the University, including financial aid checks and mid-term grade reports, will be sent to the post office box unless the student elects the home mailing option. By paying a non-refundable fee per semester, students may have all correspondence sent to their off-campus mailing address.

The Mail Center is located on the 4th Floor, TMB and is open from 8:00 a.m.-4:30 p.m. Monday through Friday. Mail is delivered Monday through Friday. No Saturday delivery is offered.

CAREER SERVICES

The Career Services Office lists part-time, co-op, internship and full-time job postings online in Jlink, <https://jsu-csm.symphlicity.com>. Other services provided are resume critique, mock interviews, employment and life skills assistance, job fairs, on-campus interviews and informational sessions. The services are provided online and may be accessed at anytime from the career services homepage: <http://www.jsu.edu/careerservices/index.html>, with the

exception of mock interviews and assessments; resume edits may be done online Monday–Friday during normal office hours.

In addition, our career counselor provides individual analysis in understanding and expressing the self in career activities. Services provided are personality and interest inventories which assist in assessing and clarifying the best options for career achievement, focusing on the individual's strengths in order to obtain a career/life balance.

In short, our staff can help the student discover their unique personal strengths and how to use them in order to determine major selection for the career best suited to their personality and interests.

Career Services works in conjunction with the Alumni Relations Office on a mentoring program that pairs a student with an alumni, in their field of interest. Simply complete the online form to start the process.

Career Services is located in Room 207 Merrill Hall. Call (256) 782-5482 to schedule an appointment or visit our website to learn more about our services: <http://www.jsu.edu/careerservices/index.html>.

COUNSELING AND TESTING SERVICES

Counseling Services offers individual and group counseling for JSU students, faculty, and staff. Individuals needing counseling may self-refer or may be referred by faculty members or other university personnel. Appointments can be obtained by calling (256)782-5475 or by completing the online counseling request form located at <http://www.jsu.edu/ccservices/requestforservices.html>. The Counseling Office facilitates the New Pathways Group which is a substance abuse education group for students. Counseling Services also offers recovery and other support groups on an as needed basis. Staff members in the office are responsible for implementing campus and community programming on topics pertaining to safety, health, and wellness. The Counseling Office coordinates and advises the JSU Peer Educator group who also assist in the implementation of campus programming. The Counseling Office staff maintains a rotating on-call schedule for any crisis situation after normal business hours. If there is an after-hours emergency, the counselor on call will be contacted by the University Police Department.

Testing Services are available to JSU students and the community to include testing for proctored exams, math make-up exams, CLEP, CLA, EPP, MAT, Residual ACT, the Alabama Educator Certification Testing Program (formerly APTTP), the Alabama State Personnel Exam, and the EIPA. Many tests are administered in our walk-in testing lab. There are fees associated with some tests that are administered and current information regarding registration, fees and testing dates can be located on the Counseling Services webpage at <http://www.jsu.edu/ccservices>

DISABILITY SUPPORT SERVICES

Disability Support Services (DSS) provides appropriate and reasonable accommodations for students with documented disabilities. It is the goal of DSS to ensure that students with disabilities have equal opportunity to achieve their personal academic goals while maintaining the integrity of JSU's academic program requirements. DSS provides reasonable accommodations through a variety of services and programs. Accommodations may include: exam proctoring, special testing procedures, extended time on exams, priority registration, Interpreter services, captioning services, readers, note takers, brailled formats, enlarged print materials, alternative formats, and assistive technology. DSS is located in 139 Daugette Hall and more information can be located at www.jsu.edu/dss or by calling (256) 782-8380.

MULTICULTURAL SERVICES – SGA

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

LEARNING SERVICES

Learning Services supports academic achievement computer-assisted practice on basic and advanced skills. Learning assistance is provided in study skills, as well as remediation for the English Competency Exam.

TUTORING SERVICES

Tutoring Services provides an extra boost to JSU students who anticipate they will have academic difficulty in general education courses. Peer tutors work individually or in small group study sessions with students to enhance and assist in academic progress. Tutorial services are free to all JSU students.

STUDENT HEALTH CENTER

The Student Health Center is a primary health care facility providing outpatient medical services as well as promoting preventive health measures to currently enrolled students, staff, and faculty.

Prior to enrollment, new students are required to submit completed student health information to include: (1) Student Health Form, (2) Immunization form, and (3) Proof of Tuberculosis Screening.

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), <http://www.jsu.edu/depart/edprof/isu/tlc.html> Learning Resource Center (LRC), <http://www.jsu.edu/depart/edprof/isu/lrc.html> Multimedia Instructional Laboratory (MIL) <http://www.jsu.edu/depart/edprof/isu/mil.html>.

The T/LC is an on-campus; free tutorial service to 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 check-out. Additionally, the Center offers media preparation services such as laminating, copying, duplicating, 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 also associated with the ISU. Multimedia computers utilizing a wide variety of formats including videodisks, DVDs and CD-ROMs help to insure that students are exposed to the latest technologies available.

The ISU reflects goals and objectives that maximize the effective use of facilities, staff and resources in the College of Education and Professional Studies.

HOUSTON COLE LIBRARY

The twelve-story Houston Cole Library contains most of the University library collections. The collections, which consist of over 800,000 bound volumes plus numerous periodicals, electronic books and full-text periodical databases, microforms and audio-visual materials, meet the curriculum and research needs of the University community. Materials are available on all reading and interest levels. The library is a depository for government publications and United States Geological Survey maps. Through cooperative inter-library arrangements, the library makes its holdings available and has access to the resources of libraries throughout Alabama, the nation, and the world. The library web page which provides access to the catalog, periodical data-bases and many other electronic resources can be found at www.jsu.edu/library.

The library is arranged by subjects on individual floors and served by subject specialist librarians. Library faculty and staff on these floors provide reference service and instruction in how to use library materials and search bibliographic databases. Library books and reserve materials may be checked-out in the lobby. All Library Services are available to online and distant education students as well.

A computer lab is located on the 10th floor and each subject floor provides public access computers hard-wired to the internet. Laptop computers can be checked out from the 6th floor Listening Lab for in-house use on the library's wireless networks.

The Instructional Media Center is located on the ground floor of the library. Students who wish to use audio-visual materials for presentations in class may check out select materials and, with the instructor's approval, equipment. Production services include assistance in creating transparencies, slides, audio tapes, slide/tape and power point presentations, and video recordings.

Houston Cole Library is open eighty-seven hours per week when classes are in session. The Library offers extended hours during Fall and Spring Semester Final Exams.

ATHLETICS

Jacksonville State University is a NCAA Division I member of the Ohio Valley Conference. Since joining the OVC prior to the 2003 season, the Gamecocks have won Conference Championships in Football, Volleyball, Rifle, Men's Tennis, Men's Golf, Women's Golf, Baseball, and Softball.

The University offers 16 varsity sports, which all compete in the Ohio Valley Conference:

MEN – Baseball, Basketball, Cross Country, Football, Golf, Rifle and Tennis

WOMEN – Basketball, Cross Country, Golf, Soccer, Softball, Tennis, Volleyball, Beach Volleyball and Indoor and Outdoor Track

In addition to the numerous Ohio Valley Conference Championships, JSU also has claimed the OVC Women's All-Sports Trophy and finished as high as third in the Men's All-Sports standings. The All-Sports trophy is a symbol of overall athletic excellence in conference-sponsored championships.

Gamecock student-athletes also excelled in the classroom as 124 student-athletes were named to the OVC Commissioner Honor Roll and almost 200 student-athletes posted a 3.0 grade point average or higher during the last academic year. The JSU athletic department posted a cumulative grade point average of 3.14, with 14 sports at a 3.0 or higher.

JSU also won the OVC's most prestigious honor – the OVC Academic Achievement Banner for 2004. During that same year, Jacksonville State's student-athletes posted the highest graduation rate of any four-year institution in the State of Alabama.

Along with JSU's successful traditions come impressive notables, such as being the only school in the history of NCAA competition, on any level, to have national championships in football, basketball, and baseball. Only six other NCAA schools have won a national championship in basketball and football (Michigan, Michigan State, Ohio State, Florida, North Alabama, and Wittenberg).

JSU also has the distinction of having the first-ever female to play and score a point in a NCAA Division I football game. Kicker Ashley Martin connected on all three of her extra-point attempts, with her first coming at the 8:31 mark of the first quarter in the Cumberland game on August 30, 2001.

THE INTERNATIONAL HOUSE PROGRAM

The International House program is a Department of State approved cultural exchange program with emphasis on cultural understanding. International students, for this program, are selected by the International Endowment Foundation, Inc., which guides the JSU International House Program. International students in this program are considered Cultural Exchange Students. These students must provide official transcripts or documents proving graduation from high school before they may enroll in classes. These documents must be mailed directly from the

school to the Office of Admissions at JSU or must be placed in a sealed envelope from the school and presented unopened to the Office of Admissions.

Cultural Exchange Students who wish to be considered degree-seeking from the beginning of their enrollment at JSU should meet the admission requirements in the Admission section of this catalog under International Student Admission.

Cultural Exchange Students who do not choose to be degree-seeking students before enrolling at JSU must meet requirements if they wish to remain at JSU after completion of the cultural exchange program. These students may do so by meeting international student admissions requirements or by completing 24 college level semester hours at JSU.

Each year forty undergraduate students are accepted as members of this unique undertaking. Approximately one-half of the members are foreign students and the remaining students are American. Members of the International House Program must be enrolled as full-time students in the University. Although not mandatory, foreign language study is encouraged. All members reside at the International House. Each foreign student has an American student for a roommate. There are no special fees charged for participation.

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

The program places special emphasis on:

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

Persons interested in applying for membership are encouraged to call (256) 782-5303; e-mail ckhadka@jsu.edu or write: Director, International House Program, 700 Pelham Road North, Jacksonville State University, Jacksonville, AL 36265.

INTERNATIONAL PROGRAMS AND SERVICES

The Office of International Services and Programs provides support to international and American students. Services are provided to international students who attend or plan on attending 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 available to experience and enjoy American culture and the unique traits of JSU.

This office provides support to JSU students who study abroad and faculty seeking research or exchange programs. Students interested in studying 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 by this office. During their stay on the JSU campus, visiting faculty from universities abroad are provided with support.

International activities at the university are also supported through this office, including the oversight of international content in the curriculum. Cultural activities, student organizations, and student activities with international relevance are also under the guidance of this office.

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.

THE ENGLISH LANGUAGE INSTITUTE

The English Language Institute (ELI) teaches English to people whose first language is not English. The program prepares students for academic success on an American campus, both in terms of English language and cultural awareness. The ultimate goal for most ELI students will be to gain entry into JSU or another postsecondary institution in the United States. The ELI curriculum covers four areas of study: reading, listening/speaking, composition/grammar, and supplemental classes. Please consult the English Language Institute's website at www.jsu.edu/eli for more information concerning the program.

SUMMARY OF DEGREES AND GENERAL STUDIES REQUIREMENTS

Jacksonville State University offers six undergraduate degrees: Bachelor of Science in Education, Bachelor of Science, Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Social Work, and Bachelor of Science in Nursing. Students may be awarded multiple majors within a degree. Students seeking to earn additional bachelor's degrees must complete a minimum of 32 semester hours in residence over and above the previously earned bachelor's degree and must meet all academic requirements for the degree sought as stipulated in the Undergraduate Catalog at the time of enrollment in the additional degree program. The student must submit an updated application form to the appropriate Dean's office for approval in advance. Students may not be awarded multiple degrees in the same graduation exercise. The following summary of general studies requirements must be included in all undergraduate degrees. These represent minimum requirements. Specific degree programs and majors may have additional requirements.

GENERAL STUDIES CURRICULUM (60-64 SEMESTER HOURS)

Area I Written Composition (6 semester hours)

Course Number	Course Title
EH 101	English Composition I
EH 102	English Composition II
EH 103	Honors English Composition I
EH 104	Honors English Composition II

Area II Humanities and Fine Arts (12 semester hours)

Major departments specify which courses are required. As part of the General Studies Curriculum, students must complete a 6-semester hour sequence in either literature or history.

Course Number	Course Title
ART 202	Art Appreciation
DR 242	Introduction to Theatre
EH 141	Oral Communication
EH 201	American Literature I
EH 202	American Literature II
EH 203	Survey of English Literature I
EH 204	Survey of English Literature II
EH 219	Honors Literature I
EH 220	Honors Literature II
EH 231	World Literature I
EH 232	World Literature II
FH 101	Beginner's French I
FH 102	Beginner's French II
FH 201	Intermediate French I
FH 202	Intermediate French II
GN 101	Beginner's German I
GN 102	Beginner's German II
GN 201	Intermediate German I
GN 202	Intermediate German II
MU 233	Introduction to Music
SH 101	Beginner's Spanish I
SH 102	Beginner's Spanish II
SH 201	Intermediate Spanish I
SH 202	Intermediate Spanish II

Area III Natural Sciences and Mathematics (11 semester hours)

Major departments specify which courses are required. Students must complete at least 3 semester hours in mathematics as required by major and at least 8 semester hours in the natural sciences which must include laboratory experiences.

Course Number	Course Title
BY 101 & 103	Introductory Biology I & Lab
BY 102 & 104	Introductory Biology II & Lab
CY 105 & 107	General Chemistry I & Lab
CY 106 & 108	General Chemistry II & Lab
CY 115	Concepts of General Chemistry I
CY 116	Concepts of General Chemistry II
GL 241 & 243	Physical Geology & Lab
GL 242 & 244	Historical Geology & Lab

GY 250 & 252	Physical Geography I & Lab
GY 251 & 253	Physical Geography II & Lab
MS 110	Finite Mathematics
MS 112	Precalculus Algebra
MS 113	Precalculus Trigonometry
MS 115	Precalculus Algebra and Trigonometry
MS 120	Calculus and its Applications
MS 125	Calculus I
MS 126	Calculus II
MS 227	Calculus III
PHS 201 & 203	College Physics I & Lab
PHS 202 & 204	College Physics II & Lab
PHS 211 & 213	Physics for Scientists and Engineers I & Lab
PHS 212 & 214	Physics for Scientists and Engineers II & Lab
PHS 271	Elements of Astronomy I
PHS 272	Elements of Astronomy II

Area IV History, Social, and Behavioral Sciences (12 semester hours)

Major departments specify which courses are required. (As part of the General Studies Curriculum, students must complete a 6-hour sequence either in literature or history.)

Course Number	Course Title
AN 224	Introduction to Anthropology
EC 221	Principles of Microeconomics
EC 222	Principles of Macroeconomics
GY 120	World Regional Geography
GY 220	Human Geography
HY 101	Western Civilization I
HY 102	Western Civilization II
HY 201	American History I
HY 202	American History II
PSC 100	Introduction to American Government
PSY 201	Principles of Psychology
PSY 222	Human Development
SY 221	Introduction to Sociology

Area V Pre-Professional, Major and Elective Courses (19-23 semester hours)

Major departments specify required courses and/or electives.

MAJOR/MINOR REQUIREMENTS/ELECTIVES: Minimum 60-64 hours

TOTAL: Minimum 120-132 hours

Students are encouraged to incorporate internships and practical field experiences in their degree plans. These field experiences may or may not be credit-bearing, but are considered integral to the learning process. Students should consult their academic advisors for prior approval and guidance.

BACHELOR OF ARTS

Majors for the Bachelor of Arts (B.A.) degrees may be selected from any field in which majors are offered with the exceptions of physical education, computer science and computer information systems, family and consumer sciences, criminal justice, accounting, management, marketing, mathematics, finance, education, social work, chemistry, emergency management, geography, psychology and teaching fields. Minors may be selected from any fields in which minors are offered. Students may not take as a second (double) major a subject not permitted as a major in this degree.

BACHELOR OF FINE ARTS

The requirements for the Bachelor of Fine Arts (B.F.A.) are listed under the Department of Art.

BACHELOR OF SCIENCE

The requirements for the Bachelor of Science (B.S.) degree are the same as those for the Bachelor of Arts degree, with the following exceptions:

1. Where the degree is chemistry and the minor is biology or mathematics, a foreign language is highly recommended. However, the taking of a foreign language is encouraged in all programs.
2. Majors for the B.S. degree may be selected from the following fields: finance, biology, economics, family and consumer sciences, sports management and recreation studies, exercise science and wellness, management, marketing, accounting, computer science, computer information systems, chemistry, emergency management, mathematics, geography, sociology, psychology, criminal justice, occupational safety and health management, applied manufacturing engineering, industrial leadership, and applied electronics engineering.

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

BACHELOR OF SOCIAL WORK

The requirements for the Bachelor of Social Work (B.S.W.) degree are listed under the Department of Sociology and Social Work. Specific general studies requirements and Social Work requirements are detailed. Double majors are not allowed in the B.S.W. degree.

BACHELOR OF SCIENCE IN EDUCATION

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

BACHELOR OF SCIENCE IN NURSING

The requirements for the Bachelor of Science in Nursing (B.S.N.) are listed in the section entitled Lurleen B. Wallace College of Nursing. Programs of study are listed for both general students and licensed registered nurses seeking degree completion.

PRE-ENGINEERING

Students entering pre-engineering will consult their engineering advisor and the program outlined under the Department of Applied Engineering.

PRE-HEALTH PROFESSIONS

Jacksonville State University provides the necessary academic experience for students who plan to seek admission to a health professional school in medicine, dentistry, optometry, physical therapy, pharmacy, veterinary medicine, physician assistant, etc. In most instances, students are expected to have completed a four-year program of study leading to a baccalaureate degree. While a specific major is not required for the health professions, most students who successfully matriculate in a health professional school, including medical school, have elected a major in biology or chemistry.

Admission to a health professional school will require successful performance on the appropriate entrance examination (the MCAT, DAT, VAT, OCAT, etc.), a GPA of 3.2 or higher that has been achieved through a rigorous program of study, and a successful personal interview. These achievements are usually preceded by a serious dedication to academic studies and a high degree of competitiveness achieved through activities that demonstrate critical thinking and problem-solving skills, such as undergraduate research.

Students must be well prepared prior to seeking admission; in general, this means a basic working knowledge of biology (17 semester hours or more), chemistry (16 semester hours or more), and often physics (8 semester hours or more). Advanced course work in biology and/or chemistry is highly recommended. Admission requirements to specific schools and programs vary; therefore, students considering health profession careers must seek advice from one of the **pre-health professional advisors** very early in the course of study. Students should plan individual academic programs carefully, taking the specific courses required for admission to the health professional schools and programs to which they plan to apply. To ensure a successful and positive academic experience, students should work closely with the pre-health professional advisors. For this purpose, Jacksonville State University maintains a Health Careers Office in the Department of Biology. Additional information on careers in the health professions may be found online at <http://www.jsu.edu/biology/>.

PRE-LAW COURSES

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

In addition to having an undergraduate degree, pre-law students are required to take the Law School Admission Test (LSAT) prior to entering law school. This should be done late in the student's junior year or early in the student's senior year. Additional information regarding the law school admission process may be obtained from the Law School Admission Council at www.LSAC.org. Additional information regarding pre-law may be obtained from the Director of Academic Services, College of Arts and Sciences, located in 107 Martin Hall.

HONORS PROGRAM

In keeping with the University's mission of serving the academic needs of a diverse student population, the Honors Program provides academically gifted students with the opportunity to develop fully their intellectual potential. The Honors Program provides an enriched educational experience by fostering a strong grounding in the liberal arts and sciences, small classes, interaction with other outstanding and motivated students, instruction from some of JSU's most innovative and engaging faculty, special activities, and special recognition for students successfully completing 24 hours or more of Honors courses. There is no deadline for applying to the Honors Program; however, prompt application is encouraged. The application and guidelines are available at www.jsu.edu/cas/honors/index.html or by calling 256-782-5696.

JSU offers Honors courses which fulfill many freshman and sophomore course requirements, as well as junior and senior "Honors by Contract" opportunities in most majors. Incoming students are invited for admission to the Honors Program based on ACT or SAT test scores. Since test scores may not always provide a complete picture of ability, students may consult with the department head about enrolling in Honors classes.

For further information, contact the Director of the Honors Program, Honors House, Jacksonville State University, 700 Pelham Road North, Jacksonville, AL 36265-1602; view the Honors Program website at www.jsu.edu/cas/honors; or email honors@jsu.edu.

COLLEGE OF ARTS AND SCIENCES

Dean: J. E. Wade
Associate Dean: Lisa Williams

MISSION

The College of Arts and Sciences offers courses in humanities, arts, and sciences to support the University's general studies curriculum and educational programs, as well as traditional liberal arts, professional, and graduate programs of study leading to baccalaureate degrees, master's degrees, and the University's first doctoral degree in Emergency Management. The College gives highest priority to the quality of teaching delivered by its diverse and highly qualified faculty, while recognizing and promoting scholarly efforts, creative endeavors, and service, internal and external to Jacksonville State University. Using available resources, the College strives continuously for academic excellence, while keeping in mind the needs of its students.

REQUIREMENTS FOR THE COLLEGE OF ARTS AND SCIENCES

Benchmarks for Success

All new Arts and Sciences majors must meet the Benchmarks-for-Success standard. A new student entering the University in Arts and Sciences is defined as a freshman, transfer student, or a change of major from another College to Arts and Sciences.

Prior to enrollment in any upper-level (300+) coursework beyond 80 semester hours, the student must meet the following criteria:

1. A minimum overall 2.0 GPA for the first 80 semester hours must be achieved;
2. English 101 and 102, or official transfer equivalents, must be successfully completed by 80 semester hours;
3. The English Competency Exam (ECE) must be attempted by 80 semester hours; failure to complete successfully the ECE by 96 semester hours voids the student's admission into the College, and no further upper-level coursework may be taken for credit towards an Arts and Sciences program; and
4. All math requirements for the degree program must be successfully completed by 80 semester hours.

Upon completion of the benchmarks by 80 semester hours, and following department review and approval, students will be provisionally assessed to enter a degree program in the College of Arts and Sciences. Full assessment into the degree program is contingent upon completion of all requirements.

Transfer students entering with 80 or more hours who have not completed the required benchmark coursework must enroll in these courses in the first semester of study at Jacksonville State University and subsequently until all benchmark deficiencies are removed. Additionally, transfer students with 80 or more hours must register for and take the English Competency Exam in the first semester of eligibility.

BACHELOR OF ARTS WITH A MAJOR IN INTEGRATED STUDIES

(formerly Liberal Studies)

Jacksonville State University offers a Bachelor of Arts with a major in Integrated Studies. This degree program meets academic needs not ordinarily available in other degree programs of the University. A Bachelor of Arts with a major in Integrated Studies requires a total of 120 semester hours, of which 36 hours must be at the 300 or 400 level. A minimum of 30 hours must be completed in residence at JSU. All academic regulations of the University must be met. For additional information, including approved courses, see the Integrated Studies Advisor, Department of History, Stone Center or email IntegratedStudies@jsu.edu (formerly LiberalStudies@jsu.edu).

Integrated Studies Minor:

The Integrated Studies minor offers knowledge and skills prized in many careers. This practical "toolbox" minor complements a variety of JSU majors.

The 24-hour minor requires completion of 15 hours of required courses: EH 141, Oral Communication; MS 204, Basic Statistics; MGT 301, Principles of Management, OR MKT 301, Principles of Marketing; MGT 330, Entrepreneurship; and CS 201, Introduction to Information Technology, plus 9 hours from a list of approved electives. Approved electives include ACC 200, Principles of Accounting I, EH 322, Technical Writing; EM 301, Introduction to Emergency Management, and CS 315 Introduction to Web Design. From MGT 301 or MKT 301, students may use the one not taken as a required course as an approved elective. With advisor approval, some flexibility in elective coursework is allowed. For more information, please email the Integrated Studies advisor at integratedstudies@jsu.edu or call the History Department at 256-782-5632.

DEPARTMENT OF ART (ART)

Accredited by the National Association of Schools of Art and Design

Member of College Art Association

HAMMOND HALL and CARLISLE FINE ARTS BUILDING

Department Head: J. Seth Johnson

Professors: Henricks, Johnson, Runnells, Skinner

Associate Professors: Clark, McElroy

Assistant Professors: Anderson, Dunn, Lafferty, Miles, Oles

The Department of Art offers courses in studio art and art history. These courses are designed to increase the student's understanding of the visual arts, past and present, and to aid in the development of the student's creative abilities in the visual arts. The purpose of the department is to develop the professional artist and to offer courses for self-enrichment for the general student. Students majoring in art may select a degree program leading to the Bachelor of Arts degree or a Bachelor of Fine Arts degree with a studio concentration. Studio areas are offered in painting, drawing, printmaking, ceramics, photography, and graphic design.

The Bachelor of Fine Arts (B.F.A.) degree is a professional 122-hour advanced undergraduate curriculum. The 81-hour major includes 24 hours of art foundation courses, 9 hours of 300/400 level art history courses, 18 hours of studio concentration courses, 27 hours of studio electives in at least two other studio areas, and ART 488. A foreign language is recommended to fulfill the fine arts requirement in the general studies curriculum.

For eligibility to the B.F.A. program, a student must meet the following requirements: complete ART 111 or 112, 134, 233, 234, 240, and at least one course in the concentration area; complete 12 hours of general studies curriculum; and have a minimum 2.50 GPA overall and a minimum 3.00 GPA in the major. All potential candidates for the B.F.A. program must present a portfolio and pass portfolio review by the Art Department faculty for approval. All students eligible for the program will be reviewed for retention in the program. Please refer to the Bachelor of Fine Arts Plan of Study for all general studies and Art Department course requirements.

The Bachelor of Arts degree is a flexible 120-hour program which includes the general studies curriculum, the required art major courses, and a minor. The major requires 54 hours, including ART 111, 112, 134, 233, 234, 240, and 499, 6 hours of upper level art history, and 27 hours of 300/400 level studio courses. The student may choose any minor offered at JSU.

After completion of ART 111 or 112, 134, 233, 234, and 240, students must present a portfolio and pass portfolio review by the Art Department faculty. Students must have a minimum 2.00 GPA overall and a minimum 2.50 GPA in the major. Please refer to the Bachelor of Arts in the Art Plan of Study for all general studies and Art Department course requirements.

All art majors are required to seek advisement each semester from the department head or faculty advisor and become familiar with the general and specific requirements for the degree which they are seeking. Students majoring in Art are required to present a portfolio for faculty review by the end of their sophomore year. In addition, all art majors are required to have completed and passed ART 134, 233, 234, 240, and the portfolio review before enrolling in 400-level studio classes. Students must earn a "C" or better in each of the major and minor courses taken. All majors will participate in a senior exhibition of upper class studio work prior to graduation. The Department of Art reserves the right to select class projects for a permanent collection.

A MINOR IN ART consists of 21 hours of approved art courses, which include ART 134, 233, 234, 240, 3 hours in art history (202 recommended), and 6 hours of studio courses numbered 300 and above.

A MINOR IN ART HISTORY consists of 18 hours of 300-400 level classes from courses offered in art history by the Art Department. Students are encouraged to take Western Civilization and gain some experience with a foreign language. Students who wish to pursue a minor in Art History should consult with the department head or art historian.

DEGREE REQUIREMENTS

The Bachelor of Arts degree offered by the Department of Art requires an overall minimum of 120 semester hours comprised of the following sub-requirements: a minimum of 12 hours of 300/400 level courses at JSU in the major, a minimum of 6 hours of 300/400 level courses in the minor at JSU, 41 hours of general studies courses, 19 hours of support courses, and a minimum of 36 hours of 300/400 level courses, which include those required in the major and minor. Students must earn a minimum of 2.00 GPA overall and at JSU, 2.50 in the major, and a "C" or better in each of the major and minor courses to graduate.

PLAN OF STUDY
BACHELOR OF ARTS
TOTAL CREDIT HOURS – 120

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101	3	EH 102	3
Natural Science.....	4	Natural Science	4
Soc./Behavioral S.....	3	Math 108 or 110	3
ART 134	3	ART 234	3
ART 233	3	ART 240	3
STU 101.....	0		
	16		16

SOPHOMORE YEAR

Fall		Spring	
Literature Sequence	3	Literature Sequence	3
History	3	Fine Arts.....	3
Studio.....	3	ART HY 112.....	3
ART HY 111	3	Studio	3
Minor/electives.....	3	Minor/electives.....	3
	15		15

****Complete ECE, Math, and Portfolio Review****

Student must have a minimum 2.0 GPA overall and a minimum 2.5 GPA in the major.

JUNIOR YEAR

Fall		Spring	
Soc./Behavioral S	3	Studio	3
Humanities	3	Soc./Behavioral S.	3
ART HY 300+.....	3	ART HY 300+	3
Studio.....	3	Studio	3
Studio.....	3	Minor/electives.....	3
	15		15

SENIOR YEAR

Fall		Spring	
Minor/electives.....	4	Minor/electives.....	3
Minor/electives.....	3	ART 499 Senior Seminar	3
Studio.....	3	Studio	3
Studio.....	3	Minor/electives.....	3
Minor/electives	3		
	16		12

The Bachelor of Fine Arts degree offered by the Department of Art requires an overall minimum of 122 semester hours comprised of the following sub-requirements: a minimum of 12 hours of 300/400 level courses at JSU in the major, 41 hours of general studies courses, and a minimum of 36 hours of 300/400 level courses, which include those required in the major. Students must earn a minimum 2.50 GPA overall and at JSU, 3.00 GPA in the major, and a "C" or better in each of his/her major courses to graduate.

PLAN OF STUDY
BACHELOR OF FINE ARTS
TOTAL CREDIT HOURS - 122

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101.....	3	EH 102	3
Natural Science.....	4	Natural Science	4
Soc/Behavioral S.....	3	Math 108 or 110	3
ART 134	3	ART 234.....	3
ART 233	3	ART 240.....	3
STU 101.....	0		
	16		16

SOPHOMORE YEAR

Fall		Spring	
Literature Sequence	3	Literature Sequence	3
History	3	Studio	3
Studio.....	3	ART HY 112.....	3
ART HY 111	3	Studio (ART 334).....	3
Studio (ART 340).....	3	Studio	3
	15		15

****Complete ECE, Math, and Portfolio Review****

Student must have a minimum 2.5 GPA overall and a minimum 3.0 GPA in the major.

JUNIOR YEAR

Fall		Spring	
Soc/Behavioral S.....	3	Social/Behavioral S	3
Fine Arts	3	ART HY 300+	3
ART HY 300	3	Studio	3
Studio.....	3	Studio	3
Studio.....	3	Studio	3
Studio.....	3		
	18		15

SENIOR YEAR

Fall		Spring	
Humanities.....	3	ART 488 Senior Seminar	3
ART HY 300	3	Studio	3
Studio	3	Studio	3
Studio.....	3	Studio	3
Studio.....	3		
	15		12

ART (ART)
DESCRIPTION OF COURSES

- 111. Survey of Western Art I (3).** A study of the major visual arts from the Prehistoric Period to the Middle Ages.
- 112. Survey of Western Art II (3).** A study of the major visual arts from the Renaissance to the Contemporary World.
- 134. Drawing I (3).** Practice in different basic drawing techniques and media.
- 202. Art Appreciation (3).** Exploration of art forms of the past and present for understanding of purpose, meaning, and nature of art. Awareness, appreciation, and visual enjoyment of art are stressed.

203. **Honors Art Appreciation (3).** *Substitutes for ART 202.* Advanced individualized exploration of art forms of the past and present for understanding of purpose, meaning, and nature of art. Awareness, appreciation, and visual enjoyment of art are stressed.
233. **Design I (3).** Two dimensional projects related to design principles, theories, and techniques.
234. **Drawing II (3).** *Prerequisite: ART 134.* Concentration upon the refinement of technical proficiency with emphasis on the expressive potential of drawing media.
240. **Design II (3).** *Prerequisites: ART 134 and 233.* Advanced problems in two-dimensional and three-dimensional design, theories, and techniques.
242. **Digital Literacy for Artists and Designers (3).** Introduction to basic computer hardware and software skills for artists and designers with an emphasis on the Adobe Creative Suite. Students will learn to document and format their work for dissemination, as well as explore various media and modes for artist/designer self-promotions.
303. **Beginning Painting (3).** *Prerequisites: ART 134 and 233.* Introduction to formal and technical problems of painting with an emphasis on fundamental concepts and practices.
305. **Special Topics in Painting (3).** *Prerequisite: ART 303 and/or permission of instructor.* An in-depth, independent investigation of topics and techniques in the field of painting, such as advanced painting from the figure, painting on location, experimental media and materials research, etc. This course may be repeated for credit up to a maximum of nine hours.
309. **Ceramics I (3).** Problems in designing, glazing, and firing ceramic objects.
312. **Special Topics in Ceramics (3).** *Prerequisite: ART 309 and/or permission of instructor.* An in-depth, independent investigation of topics and techniques in the field of ceramics, such as glaze formation, figurative ceramics and alternative firing processes, etc. This course may be repeated for credit up to a maximum of nine hours.
319. **Beginning Sculpture (3).** *Prerequisites: ART 134 and 240.* Introduction to three-dimensional design problems and sculpture media.
335. **Figure Drawing (3).** *Prerequisites: ART 134 and 234.* Concentration on rendering the human form.
336. **Advanced Drawing IV (3).** *Prerequisites: ART 134, 234, 334.* The study of advanced aesthetic and technical skill in drawing. The emphasis will be on the student's individual expression.
338. **Special Topics in Drawing (3).** *Prerequisite: ART 336 and/or permission of instructor.* An in-depth, independent investigation of topics and techniques in the field of drawing, such as advanced drawing from the figure, drawing on location, experimental media and/or contemporary concepts and practices in drawing, etc. This course may be repeated for credit up to a maximum of nine hours.
340. **Design III (3).** *Prerequisites: ART 233, 240.* Study of color theories and their application to design.
342. **Graphic Design I (3).** *Prerequisites: ART 134 and ART 233.* Introduction to typography. The history of writing and type. Projects emphasize spatial problems and communicative value of type, with digital page layout problems.
343. **Graphic Design II (3).** *Prerequisite: ART 342.* Examination of the role of the graphic designer. Fundamentals of visual communication and letter form, with problems focusing on project research, design process, and unity of type and image.
344. **Drawing Studio (3).** *Prerequisites: ART 134 and 234.* Comprehensive study of creative drawing, emphasizing material, imagery, and concept.
345. **Intermediate Drawing Studio (3).** *Prerequisite: ART 344.* Creative drawing emphasizing aesthetic and conceptual concerns in thematic development.
362. **Printmaking I (3).** *Prerequisites: ART 134 and 233.* Fundamentals of printmaking. Studio work in intaglio (etching) techniques.
365. **Special Topics in Printmaking (3).** *Prerequisite: ART 362 and/or permission of instructor.* An in-depth, independent investigation of topics and techniques in the field of printmaking, such as relief, letterpress, intaglio, lithography, screenprinting, monotype, collagraph, digital printmaking, and experimental media. This course may be repeated for credit up to a maximum of nine hours.
368. **Introduction to Photography (3).** Introduction to basic digital photography and image processing techniques with emphasis on the aesthetic qualities of photography.
369. **Photography I (3).** *Prerequisite: ART 368.* Introduction to basic black and white film photography and darkroom techniques with emphasis on aesthetic qualities of photography.
374. **19th Century Art History (3).** *Prerequisites: EH 101, 102 and ART 111, 112.* Painting, drawing, and printmaking in the nineteenth century are studied through slide lectures. Offered alternate semesters.
385. **Modern Art to 1945 (3).** *Prerequisites: EH 101, 102 and ART 111, 112 or equivalent.* A study of the major visual arts from the end of the nineteenth century to 1945.
386. **Modern Art Since 1945 (3).** *Prerequisites: EH 101, 102 and ART 111, 112.* This course is designed to investigate the history of art from 1945 to the present.

389. **American Art and the Old South (3).** *Prerequisites:* EH 101, 102 and ART 111, 112 or equivalent. A survey of American art history with emphasis on the traditions of the South.
391. **Watercolor (3).** *Prerequisites:* ART 134 and 233. Watercolor painting for beginning and intermediate students. Emphasis on developing individual attitudes toward the water color medium. This course may be repeated for credit up to a maximum of nine hours.
394. **Primitive and Non-Western Art (3).** *Prerequisites:* EH 101, 102 and ART 111, 112 or equivalent. This course will investigate a series of primitive and non-western cultures through their artistic monuments.
399. **Study Tour (3).** Topics, excursions, and requirements determined by department. May be duplicated for credit; however, only three (3) credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.
403. **Painting II (3).** *Prerequisites:* ART 234, 240, 303. Advanced work in painting with an emphasis on creative expression and a further development of basic concepts and fundamentals.
404. **Painting III (3).** *Prerequisite:* ART 403. Advanced work in painting with an emphasis on creative expression and a further development of basic concepts and fundamentals.
405. **Advanced Painting IV (3).** *Prerequisite:* ART 404. The study of advanced comprehensive approaches to current painting. The emphasis will be on the development of the individual student's originality in problem solving.
407. **Mixed Media (3).** *Prerequisites:* ART 134, 233, 234, 240. Using traditional as well as non-traditional materials, students are encouraged to explore the boundaries between drawing, painting, and sculpture. Research, artistic process, visual documentation, artist as narrator, practical issues, personal concepts, metaphor, and appropriation will play a role in completion of successful works of art. This course may be repeated for credit up to a maximum of nine hours.
409. **Ceramics II (3).** *Prerequisite:* ART 309. Advanced problems in ceramics.
410. **Ceramics III (3).** *Prerequisite:* ART 409. Further advanced problems in ceramics.
413. **Advanced Ceramics IV (3).** *Prerequisite:* ART 410. The study of advanced aesthetic and technical skills in ceramics. The emphasis will be on the student's individual approach and originality.
419. **Sculpture II (3).** *Prerequisite:* ART 319. Advanced work in sculpture with emphasis on dynamic spatial form.
420. **Sculpture III (3).** *Prerequisite:* ART 419. Advanced work in sculpture.
430. **Graphic Design III (3).** *Prerequisite:* ART 343. Development of design process and methodology. Visual systems, sequencing, and series. Applied projects include identity systems and brochure design. Illustration/vector art software.
431. **Advanced Graphic Design IV (3).** *Prerequisite:* ART 430. Information design, package design, and advanced type and image problems. Image manipulation software.
432. **Introduction to Letterform Design (3).** *Prerequisites:* ART 330 or 429. Introduction to the design of letterforms with emphasis on tradition and aesthetics. Letterforms developed from drawing through to digitization.
434. **Graphic Design Workshop (3).** *Prerequisite:* ART 343 or permission of instructor. Introduction to the professional practice of graphic design from the initial contact with the client, through the design process, to the practical aspects of production.
442. **Interactive Design I (3).** *Prerequisite:* ART 342 or permission of instructor. Introduction to contemporary concepts and methods of interface design for interactive digital media. Equal emphasis on functional, technical, and aesthetic principles.
443. **Interactive Design II (3).** *Prerequisite:* ART 442 or permission of instructor. Intermediate principles of interactive design for digital media. Continuation of principles covered in ART 442 with emphasis on technical development of interactive content.
445. **Advanced Drawing Studio (3).** *Prerequisite:* ART 345. Creative drawing based on studio production from concept to finished series. This course may be repeated up to a maximum of nine hours.
450. **Art Theory (3).** *Prerequisite:* 3 hours of 300 level Art History. An investigation of the theoretical background associated with artistic production.
462. **Printmaking II (3).** *Prerequisites:* ART 134 and 233. Fundamentals of printmaking. Studio work in relief techniques.
463. **Printmaking III (3).** *Prerequisite:* ART 462. Advanced problems in printmaking.
464. **Advanced Printmaking IV (3).** *Prerequisite:* ART 463. Advanced problems in printmaking utilizing traditional and experimental techniques. The emphasis will be on developing the student's individual approach.
467. **Photography in the Field (3).** *Prerequisites:* ART 368 and permission of instructor. Introduction to photographing on location. Emphasis will be on exploring the technical concerns and aesthetic possibilities of location photography. This course may be repeated for credit up to a maximum of nine hours.
469. **Photography II (3).** *Prerequisite:* ART 368. Introduction to color and advanced black and white photography, with emphasis on the technical and aesthetic aspects of photography.

- 470. Alternative Processes in Photography (3).** *Prerequisites:* ART 368 and 369. Advanced use of color and black and white photography as fine art. Emphasis is on the use of advanced techniques and on personal expression. This course may be repeated for credit up to a maximum of nine hours.
- 471. Advanced Photography (3).** *Prerequisites:* ART 368, 369, and 469. The study of advanced aesthetic and technical skills in black and white, color, and other photographic mediums. The emphasis will be on individual originality and creative expression. This course may be repeated for credit up to a maximum of nine hours.
- 472. Basic Digital Photography (3).** *Prerequisites:* ART 134, 233, 369, and ART 469 or 470. This course will explore the primary manner in which digital and/or digitized images are different from traditional silver based photographic materials. Emphasis will be on both technical and aesthetic aspects of photography.
- 473. Special Topics in Photography (3).** *Prerequisites:* ART 368 and permission of instructor. Advanced work in photography and digital imaging. Topics will rotate and include such areas as social and documentary photography, exploratory media, and advanced technical areas of study. This course may be repeated for credit up to a maximum of 12 hours.
- 479. Independent Study in Art History (3).** *Prerequisite:* Permission of instructor and department head, 12 hours (300+) of Art History. Selected topics to be coordinated with instructor. This course may be repeated for credit up to a maximum of 12 hours.
- 481. Internship Graphic Design (3).** *Prerequisite:* ART 430 or permission of instructor. Students will receive on-the-job training and experience in an area of their specialization. This course may be repeated for credit up to a maximum of six hours.
- 484. Current New York Art Museum (3).** A study of New York art exhibitions and collections available in museums, such as the Metropolitan Museum of Art, the Museum of Modern Art, and local galleries. In addition, students visit Lincoln Center for the Performing Arts and attend four Broadway productions.
- 486. Internship in Museum Work (3).** *Prerequisite:* 12 hours (300+) in Art History. Designed for students planning a career in museum work. Course includes history and organization of museums with work experience in a local museum. Recommended for Art History minor.
- 488. BFA Seminar (3).** *Prerequisites:* Acceptance in BFA Program and Senior Standing. Required for the BFA. Seminar includes a review of current literature, portfolio presentation, BFA exhibition, and senior paper.
- 490, 491, 492, 493, 494, 495, 496. Advanced Independent Study (3 each).** *Prerequisite:* Completion of studio emphasis and permission of instructor and department head. Intensive independent study for students within their studio emphasis, coordinated and approved by a faculty advisor. Each course may be repeated for credit, up to a maximum of 12 hours, with permission of Department Head.
- 499. BA Senior Seminar and Exhibit (3).** *Prerequisite:* Senior standing. Required of senior art majors and must be taken the semester of graduation. Seminar will cover the important aspects of planning and hanging an exhibit and the preparation of a portfolio and resume. The fruition of this course will be the Senior Exhibit.

DEPARTMENT OF BIOLOGY (BY)

242 MARTIN HALL

Department Head: Tim H. Lindblom

Professors: Al-Hamdani, Blair, Carter, Cline, Hamissou, Lindblom, Meade, Rayburn

Associate Professors: Murdock, Sauterer

Assistant Professors: Burns, Tolley-Jordan, Triplett

Instructor: Watkins

The Department of Biology offers a diverse spectrum of undergraduate courses in the biological sciences that enables a student to develop an understanding and appreciation of life, from molecular to ecological, and to develop the strong academic background necessary for pursuing graduate study or a career in biology or the health professions. The Department recognizes the importance of both content and process in science education and thus offers the opportunity to develop communication skills and engage in undergraduate research in the biological sciences.

The **Bachelor of Science** degree with a **Major in Biology** requires an overall minimum of 128 hours with a minimum of 36 hours of 300/400 level courses. The **Major in Biology** requires a minimum of 39 hours in biology with a "C" or better in major and minor classes. It also requires an approved minor of 18 hours or more. At least 12 hours of the 300/400 courses for the major and 6 hours for the minor must be taken in residence at JSU. Once the student has met the requirements for the major and minor, the hours remaining to complete the 128 hours overall will be classified as electives. A student must earn a 2.0 GPA overall and on campus. The Bachelor of Science degree with a major in Biology is for those who intend to pursue careers in health professions (medicine, dentistry, optometry, physical therapy, pharmacy, veterinary medicine, physician assistant, etc.), graduate programs (M.S., Ph.D.), biological education, biomedical sciences, biotechnology, conservation biology, environmental biology, organismal biology, marine biology, industrial professions (lab managers, consulting, etc.), or governmental professions (research scientist, NOAA, NMFS, etc.). After completing a common core of biology courses, the Biology major may choose a concentration from the listing below.

Ecology and Environmental Biology is designed for those majors who plan to enter graduate school or have careers in ecological or environmental research, environmental assessment, or education.

Marine Biology is for majors who plan to enter graduate school or have careers in marine biology research, environmental assessment, or education. The Department is an active member of Alabama's Marine Environmental Sciences Consortium. Summer study at the Dauphin Island Sea Lab is required.

Pre-Health Professional Biology is for those majors who intend to seek admission to such health professions as medicine, dentistry, physical therapy, etc., or graduate study in the biomedical sciences.

Organismal Biology is intended for those majors who plan graduate study in organismal biology (plant or animal biology), or who plan to pursue careers in biological education or conservation biology or as a naturalist.

Cellular and Molecular Biology is for those majors who plan graduate study in biotechnology, cell and molecular biology, or biochemistry or who plan to pursue careers in academic, industrial and/or biotechnology settings.

Advising—Students who plan to earn the B.S. degree in Biology must consult with the Department of Biology for advisement early in their plan of study and every semester thereafter. New students should consult the Department's freshman advisor before or during their first semester. Pre-Health Professional advisees are required to attend scheduled advising sessions that are announced on the departmental webpage. Transfer students should meet with either the Department's transfer advisor or a program advisor before or immediately upon transferring.

To complete the Biology Degree Program, the students majoring in Biology must plan carefully, since science laboratories can cause scheduling conflicts. An advisor can alert students to potential problems and assist in minimizing such conflicts. It is recommended that the Biology major complete the biology core of genetics, cell biology, ecology, and research in biology early in the course of study. Careful planning will facilitate the opportunity for undergraduate research.

Additional departmental, program, advising, and career information is available on the Internet at www.jsu.edu/biology.

The **Bachelor of Arts Degree** with a **Major in Biology** requires a minimum of 128 hours with a minimum of 36 hours of 300/400 courses. The Major in Biology requires a minimum of 39 hours in Biology with a "C" or better in major and minor classes and 14 hours in supporting courses, including 6 hours of a foreign language. It also requires an approved minor of 18 hours or more. At least 12 hours of the 300/400 courses for the major and 6 hours of the 300/400 courses for the minor must be taken in residence at JSU. Once the student has met the requirements for the major and the minor, the hours remaining to complete the 128 hours overall will be classified as electives. A student must earn a 2.00 GPA overall and on campus. At the beginning of the sophomore year, students considering this degree program (BA vs. BS) should consult with the Biology Department Head or their Biology Faculty Advisor. There are two concentrations within the Biology **Bachelor of Arts** degree.

The **Naturalist concentration** is for those majors that are seeking careers in forest or park management or as environmental interpreters or park naturalists. Students in this concentration are required to have a minor in Law Enforcement and take Spanish to meet the foreign language requirement.

The **General Biology concentration** is for majors interested in careers in sales for chemical, pharmaceutical, and biological supply companies or book companies; biological illustration; or education. Students in this concentration have a choice of minors and foreign language. Students who plan careers in education should contact the Teacher Service Center in the College of Education, Ramona Wood Hall, Room 207, for information on certification and admission to education.

The Major in Biology (BS or BA)

The requirements in biology for the major are

a. Freshman Biology Sequence: BY 101, 102, 103 and 104.....	8 hrs
b. Biology Core Courses: BY 322 (Genetics), BY 332 (Ecology) and BY 373 (Cell Biology)	12 hrs
c. Introduction to Research: BY 370.....	2 hrs
d. Biology courses to be selected from each of the following groups:	
Group I — Approved courses in cellular, physiological or developmental biology	4 hrs
Group II —Approved courses in organismal biology	4 hrs
e. Senior Seminar: BY 496	1 hr
f. Other requirements and/or electives:	8 hrs
TOTAL hours in Biology	39 hrs
g. Required support courses	14-24 hrs

The specific biology courses, approved Group I and II courses, support courses and total hours required for the Biology major vary according to the specific concentration chosen. The requirements for each concentration are outlined in the "Plan of Study" which follows "Course Descriptions." **No more than 1 hour each of BY 327, BY 397, BY 427, and BY 489 can be applied to the Biology major.**

DEPARTMENTAL MINORS MINOR IN BIOLOGY

A **Minor in Biology** comprises a minimum of 24 hours that shall include BY 101, 102, 103, 104, 322, 332, 373 and 4 additional hours of approved biology courses at or above the 300 level. A minor in Biology may not be taken in conjunction with a major in Biology.

MINOR IN SPECIAL STUDIES

A **Minor in Special Studies** comprises 24 hours. This must include at least 13 hours of approved biology courses and at least 11 hours of approved courses from other disciplines. A minor in Special Studies must be taken in conjunction with a major in Biology, with written approval of the head, Department of Biology. Courses taken to satisfy requirements for the Biology major may not be counted as credit towards this minor. See the Biology Program Advisor for assistance with this minor.

BIOLOGY (BY) DESCRIPTION OF COURSES

101. **Introductory Biology I (3).** *Corequisite: BY 103.* An introduction to the concepts of biology, including cellular structure and function, bioenergetics, patterns and mechanisms of inheritance, the processes of evolution, and ecology. For majors and non-majors.
102. **Introductory Biology II (3).** *Prerequisite: BY 101. Corequisite: BY 104.* An introduction to biodiversity, from bacteria through plants and animals, with an emphasis on their structure, function, and ecological interactions. For majors and non-majors.
103. **Introductory Biology Lab I (1).** *Corequisite: BY 101.* One two-hour laboratory per week. This course reinforces lecture materials and must be taken concurrently with BY 101.
104. **Introductory Biology Lab II (1).** *Prerequisite: BY 103. Corequisite: BY 102.* One two-hour laboratory per week. This course reinforces lecture material and must be taken concurrently with BY 102.
105. **Honors Introductory Biology I (3).** *Prerequisite: Admission to the Honors Program or permission of instructor. Substitutes for BY 101. Corequisite: BY 107.* An advanced introduction to the concepts of biology, including chemistry as related to biology, cell structure and function, energy pathways, cellular reproduction, genetics, genetic techniques, evolution and ecology. For majors and non-majors.
106. **Honors Introductory Biology II (3).** *Prerequisite: Successful completion of BY 105 or permission of instructor. Substitutes for BY 102. Corequisite: BY 108.* An advanced introduction to diversity in the living world. Emphasis is on structure, function, and ecological interactions of living organisms beginning with bacteria and viruses and progressing through plants and animals. For majors and non-majors.
107. **Honors Introductory Biology Lab I (1).** *Prerequisite: Admission to the Honors Program or permission of instructor. Substitutes for BY 103. Corequisite: BY 105.* One two-hour laboratory per week. This course reinforces lecture materials with hands-on creative laboratory exercises and must be taken concurrently with BY 105.
108. **Honors Introductory Biology Lab II (1).** *Prerequisite: Admission to the Honors Program or permission of instructor. Substitutes for BY 104. Corequisite: BY 106.* One two-hour laboratory per week. This course reinforces lecture materials with hands-on creative laboratory exercises and must be taken concurrently with BY 106.
114. **Introductory Biology Research Lab I (2).** *Corequisite: BY 101 and permission from the instructor.* Substitutes for BY 103. Two-hour laboratory (two times per week). Students will isolate mycobacteriophages from soil samples, purify them, perform electron microscopy, and isolate viral DNA for sequencing.
115. **Introductory Biology Research Lab II (2).** *Corequisite: BY 102 and permission from the instructor.* Substitutes for BY 104. Two-hour laboratory (two times per week). Students will obtain sequence data for their selected mycobacteriophage, annotate the genome and compare the genome to other mycobacteriophage genomes available in the GenBank database.
263. **Human Anatomy and Physiology (4).** *Prerequisite: BY 101, 103.* Lecture and laboratory. The first of a two-course sequence of human anatomy and physiology, with an emphasis on the skeletal, muscular, respiratory and circulatory systems. For students in health-related majors; no credit allowed toward Biology major or minor.
264. **Human Anatomy and Physiology (4).** *Prerequisite: BY 263.* Lecture and laboratory. The second of a two-course sequence of human anatomy and physiology, with an emphasis on the digestive, urinary, reproductive and endocrine systems. For students in health-related majors; no credit allowed towards Biology major or minor.
283. **Health Microbiology (4).** *Prerequisite: BY 101, 103.* Lecture and laboratory. The study of viruses, bacteria, protozoa and fungi that cause diseases in humans. For students in health-related majors; no credit for Biology major or minor.
301. **Field Zoology (3).** *Prerequisites: BY 101, 102, 103, 104.* Lecture, laboratory, and field study. Collecting and identifying animals and noting ecological conditions.
302. **Field Botany (3).** *Prerequisites: BY 101, 102, 103, 104.* Lecture, laboratory, and field study. The laboratory work will involve the collection and identification of native plants of Alabama.
303. **Biological Conservation (3).** *Prerequisites: BY 101, 102, 103, 104.* A contemporary and historical study of biological conservation in America. Topics include national and global biodiversity, threats to biodiversity, conservation ethics and economics, habitat loss and degradation, habitat fragmentation, overexploitation, invasive species, conservation genetics, and conservation policy. Also addressed are the management of species and population dynamics, ecosystem conservation, restoration of degraded ecosystems, and sustainable development.
320. **Comparative Vertebrate Anatomy (4).** *Prerequisites: BY 101, 102, 103, 104.* Lecture and laboratory. The comparative study of vertebrate organ systems supplemented in laboratory with the dissection of selected vertebrates.

322. **Genetics (4).** *Prerequisites:* BY 101, 102, 103, 104. Lecture and laboratory. Important facts, laws, theories, and methods used in the study of genetics.
323. **Microbiology (4).** *Prerequisites:* BY 101, 102, 103, 104. Lecture and laboratory. General microbiology, including methods of culture and identification of some of the most common types of microorganisms.
327. **Directed Studies in Biology (1).** *Prerequisite:* BY 322 or 332 or 373. *Recommended:* BY 370. May be duplicated for credit for a total of three (3) semester hours, but only 1 hour may be applied to the major. A laboratory, field or library research investigation dealing with an aspect of the biological sciences. Biology sponsor required for topic approval and supervision. (Grade of Pass/Fail only)
331. **Principles of Animal Nutrition (3).** *Prerequisites:* BY 101, 102, 103, 104. The classification and function of nutrients, deficiency symptoms, digestive processes, characterization of feedstuffs, and formulation of diets for domestic animals.
332. **Ecology (4).** *Prerequisites:* BY 101, 102, 103, 104. *Prerequisite or corequisite:* MS 112 or higher. Lecture, laboratory, and field study. The association and distribution of organisms in relation to the major environmental factors.
340. **Discovering Genomics and Bioinformatics (3).** *Prerequisite:* BY 101. The course provides fundamental background in bioinformatics, both theoretical (bioinformatics algorithms) and practical (databases and web-based tools used to study problems in biology), to students in computer science or in biological sciences. Introduction to the biological problems addressed in this course will be provided, as well as a formal definition of the computational problems and deep exploration of the algorithms for solving these problems. Practical use of topics introduced in class is demonstrated by laboratory exercises and homework problems. Students are grouped for class projects such that each group contains at least one life scientist and one computer scientist. (BY 340 is cross-listed with CS 340, but only one course can be counted for credit.)
370. **Introduction to Research in Biology (2).** *Corequisite:* BY 322 or 332 or 373. Lecture and discussion. An introduction to research in biology, including discussion of the scientific method; reading, analyzing, and interpreting biological literature; experimental design and use of statistics; building and interpreting figures and tables; ethics; and developing a basic proposal for undergraduate research in biology.
373. **Cell Biology (4).** *Prerequisites:* BY 101, 102, 103, 104. Lecture and laboratory. The study of prokaryotic and eukaryotic cells, with an emphasis on their chemical and structural organization, bioenergetics and reproduction.
397. **Biology Internship (1).** *Prerequisites:* BY 101, 102, 103, 104; either BY 322, 332 or 373; and permission of instructor required. May be duplicated for credit for a total of three (3) semester hours, but only 1 hour may be applied to the major. The student will spend a minimum of 25 hours gaining practical experience at a public or private institution or business. (Grade of Pass/Fail only)
399. **Study Tour (3).** Topics, excursions, and requirements determined by department. May be duplicated for credit; however, only three (3) credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.
402. **Medical Microbiology (4).** *Prerequisite:* BY 283 with permission of instructor or BY 323. Lecture and laboratory. The study of pathogenic bacteria, viruses, fungi, and parasites of humans and some domestic animals. Emphasis on identification of pathogens, disease processes, and public health.
403. **Immunology (3).** *Prerequisite:* BY 373. *Recommended:* BY 323. The study of immunity and how the immune system responds to specific infectious and non-infectious agents. Includes comparative immunology of invertebrate and vertebrate animals, immunological disorders, and application of immunological techniques.
405. **Animal Behavior (3).** *Prerequisite:* BY 332. Lecture, discussion, demonstration, and library study. The genetic and anatomical basis of behavior, with an emphasis on the impact of behavior on the ecology of animals.
406. **Ornithology (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. The history, classification, anatomy, physiology, ecology, and distribution of birds, with an emphasis on field identification and ecology.
407. **Mammalogy (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. Aspects of the biology, ecology, taxonomy, and distribution of Southeastern mammals.
408. **Public Policy and Ecosystems (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. The course will address the history, evolution, and recent developments in natural resource policy and how it influences ecosystem structure and function. Topics will include fish and wildlife conservation, forest planning and management, agricultural policies, public lands (Bureau of Land Management lands, national forests, national wildlife refuges, national parks, and wilderness areas), endangered species, and policies that influence private lands. The relationship between policies and ecosystem structure and function will be addressed in class and in labs by debates and field exercises.
412. **Plant Reproduction and Development (4).** *Prerequisites:* BY 322, 373. *Recommended:* CY 105, 106, 107, 108. Lecture and laboratory. A study of structural and functional aspects of reproductive and developmental phenomena in vascular plants.
413. **Animal Reproduction and Development (4).** *Prerequisites:* BY 322, 373. *Recommended:* CY 105, 106, 107, 108. Lecture and laboratory. A study of the structural and functional aspects of reproductive and developmental phenomena in animals, with an emphasis on the cellular and molecular mechanisms involved.

- 415. Biometrics (3).** *Prerequisites:* BY 322, 332, or 373 and MS 204. An introduction to statistics for biology majors. This course will introduce students to appropriate statistics for analyzing biological data. This course will include how to select random samples, use basic statistical package(s), post-hoc statistical testing and the use of linear regression. The students will be introduced to real-world examples of statistics in ecological, toxicological, and physiological research.
- 422. Biology of Cryptogams (4).** *Prerequisites:* BY 332, 373. Lecture, laboratory, field, and library study. The study of blue-green algae, algae, slime molds, bryophytes, and lichens. Extensive field and laboratory identifications.
- 427. Independent Studies in Biology (1).** *Prerequisite:* BY 370. May be duplicated for credit for a total of three (3) semester hours, but only 1 hour may be applied to the major. A laboratory or field research project dealing with an aspect of the biological sciences. Biology sponsor required for topic approval and supervision. (Grade of Pass/Fail only)
- 434. Animal Systems Physiology (4).** *Prerequisites:* BY 373, CY 105, 106, 107, 108. *Recommended:* CY 109 or 231, 232; one semester of physics. Lecture and laboratory. A systematic survey of organ system physiology in vertebrates, with an emphasis on systems analysis, biophysics, and bioengineering.
- 435. Landscape Ecology and Management (4).** *Prerequisites:* BY 332 and MS 204. Lecture, laboratory, and field study. The role of spatial and temporal heterogeneity in the management of wildlife and natural resources is emphasized. Topics addressed include detection and description of heterogeneity, landscape dynamics and models, ecosystem management, adaptive management, genetics in conservation and management, population dynamics, community management, landscape-level conservation, managing biodiversity, and human interactions with ecosystems.
- 438. Freshwater Biology (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. An analysis of the unique ecology and biology of the freshwater ecosystems, with extensive field work and a research project involved.
- 440. Evolutionary Biology (4).** *Prerequisite:* BY 322. Lecture, laboratory, and field study. A study of the processes and mechanisms which lead to evolutionary change in the biota.
- 442. 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.
- 445. Ecotoxicology (4).** *Prerequisites:* BY 332, BY 373. *Recommended:* BY 322. Lecture, laboratory and field study. This course is a survey of ecotoxicology: study of the integration of the major processes involved with transport, exposure and response of biological systems to xenobiotics; study of how toxicants mediate interactions between organisms and their biotic and abiotic environments; study of the impact and toxic effects of pollutants on diversity, growth and metabolism of living organisms, populations, communities, and the ecosystem.
- 450. Molecular Biology (4).** *Prerequisites:* BY 322, 373, or permission of the instructor. Lecture and laboratory. A study of the processes involved in the expression of biological information at the molecular level. The laboratory includes methods in recombinant DNA technology.
- 451. Plant Anatomy (4).** *Prerequisite:* BY 373. Lecture and laboratory. The comparative structural organization of the vegetative and reproductive parts of seed plants, from cells to tissues to systems.
- 452. Plant Taxonomy (4).** *Prerequisite:* BY 322 or 332. Lecture, library, laboratory, and field study. Survey of plant nomenclature, identification systems, description, evolution, and classification, with an emphasis on vascular plants.
- 453. Dendrology (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. The identification, taxonomy, ecological characteristics, distribution, and economic importance of trees native to North America and ornamentals.
- 454. 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. Advance deposit required.
- 455. Plant Ecology (4).** *Prerequisite:* BY 322 or 332. Lecture, laboratory, library, and field study. The study of the major plant communities of the southeastern U.S. and their relationships with major abiotic features, including autecological field studies of plant species and populations.
- 458. Herpetology (4).** *Prerequisite:* BY 332. *Recommended:* BY 320. Lecture, laboratory, and field study. The study of the taxonomy, ecology, physiology, and external anatomy of amphibians and reptiles, with an emphasis on conservation and field methodology.
- 460. Ichthyology (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. An overview of the evolution, ecology, behavior, physiology, and conservation of fishes.
- 473. Advanced Cell Biology (4).** *Prerequisites:* BY 373. *Recommended:* BY 322, CY 231, 232, 362, 363. Lecture and laboratory. A study of molecular aspects of cell structures and their functions using both descriptive and biochemical approaches.
- 475. Economic Botany (4).** *Prerequisites:* BY 101, 102, 103, 104. Lecture, laboratory, and field study. The collection, identification, culture, and preservation of plants for illustration and utilization in the classroom and laboratory.
- 476. Invertebrate Zoology (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. The study of the systematics, ecology, physiology, and phylogenetic relationships of invertebrate animals.
- 477. Cell and Tissue Culture (4).** *Prerequisites:* BY 373 and CY 105-108. *Recommended:* BY 322, 412, 431 and CY 231. Lecture and laboratory. The study of *in vitro* manipulation of cells, tissues, and organs, both solid and suspension culture, and their application to biotechnology.

- 478. Endocrinology (3).** *Prerequisites: BY 373 and CY 231.* General introduction to vertebrate endocrine systems and the variety of chemical messengers involved in the regulation of physiological processes. Topics will include discussions of the history and methodologies of endocrinology, hormone synthesis, physiological effects of hormones, and the mechanisms of actions for various hormones.
- 479. Plant Physiology (4).** *Prerequisite: BY 373. Recommended: BY 451.* Lecture and laboratory. The study of mineral nutrition, water relations, photosynthesis, metabolism, and transport in vascular plants.
- 480. Advanced Topics in Biology I (1).** *Prerequisites: BY 322, 332, 373.* Lecture and discussion. Topics to be posted in the Biology Department.
- 481. Advanced Topics in Biology II (1).** *Prerequisites: BY 322, 332, 373.* Lecture and discussion. Topics to be posted in the Biology Department.
- 488. Laboratory Practicum I (2).** *Prerequisites: BY 322, 332, 373 and permission of instructor.* Lecture and laboratories. The design, organization, and implementation of laboratory exercises, the use of appropriate equipment and instructional materials, and laboratory safety and supervision. **Offered fall term only.**
- 489. Laboratory Practicum II (1).** *Prerequisites: BY 322 or 332 or 373, and the permission of the instructor.* The organization and implementation of laboratories, including the use of appropriate equipment and instructional materials. (Grade of Pass/Fail only)
- 496. Senior Seminar (1).** *Prerequisites: BY 370 and Senior standing.* The capstone course in biology includes a written report, an oral presentation in a symposium format, satisfactory completion of a comprehensive exam for the major, and participation in departmental assessment. Required for Biology major; should be taken in the last semester.

MARINE BIOLOGY (MBY)

In addition to the requirements for the B.S. in Biology, the Marine Biology concentration requires 16 credit hours of MBY courses which are offered during the **summer only** at the Dauphin Island Sea Lab (DISL). The following courses are required: MBY 415, MBY 486 or MBY 487, MBY 411 or MBY 423; and 4 hours of MBY Group I electives approved by JSU Marine Biology Advisor. Students interested in Marine Biology must consult with the Biology Department's Marine Biology Advisor for information about the concentrations, new courses not listed below, JSU Sea Lab Scholarships, application, and registration. Special fees and course availability are determined by DISL. Registration for DISL courses occurs during February each year.

MARINE BIOLOGY (MBY) DESCRIPTION OF COURSES

- 309. Marine Biology (4).** *Prerequisites: BY 101, 102, 103, 104.* A general survey of the invertebrates, vertebrates, and marine plants as communities with emphasis on local examples of these principal groups. Students will have an opportunity to examine marshland, estuarine, beach, dune, inlet and neritic habitats, and niches. Lecture, laboratory, and field work will be included.
- 411. Marine Ecology (4).** *Prerequisites: BY 101, 102, 103, 104, one year of general chemistry, one semester of general physics.* Bioenergetics, community structure, population dynamics, predation, competition, and speciation in marine ecosystems will be studied. Lecture and laboratory work will be included, although considerable time will be spent in field work. Students who have not previously had marine courses may enroll; however, Marine Invertebrate Zoology (MBY 487) or Marine Biology (MBY 309) would be very helpful. Individual species will be studied as they relate to ecological principles which they exemplify, thus providing both a taxonomic and ecologic background.
- 415. Marine Botany (4).** *Prerequisites: BY 101, 102, 103, 104.* A general survey of coastal and marine flora with emphasis on taxonomy, morphology, physiology, ecology, and distribution. Community structure in various ecosystems will be studied. Students will have an opportunity to examine pelagic, marshland, estuarine, beach, sand dune, and inlet niches. Lecture and laboratory work will be included, and a collection will be required.
- 416. Introduction to Oceanography (4).** *Prerequisites: One year of general biology or one year of general zoology and one year of general botany; one year of general chemistry; one semester of physics; and one semester of college algebra.* An introduction to biological, chemical, geological, and physical aspects of the sea.
- 423. Marsh Ecology (4).** *Prerequisite: Advanced undergraduate standing in biology.* A study of the floral and faunal elements of various marine marsh communities with an emphasis on the interaction of physical and biological factors. Lecture, lab, and field trips.
- 427. Marine Technical Methods I (2).** *Prerequisite: Advanced undergraduate standing.* An introduction to instruments and procedures normally utilized aboard a marine research vessel. These include physical, biological, chemical, and geological parameter measurements and sample collections. Basic positioning and communication procedures are included.
- 428. Marine Technical Methods II (2).** *Prerequisite: Advanced undergraduate standing.* An introduction to the laboratory methodology associated with the usual chemical parameters of nutrient analysis. The laboratory approach will be pursued, ship-board and specific practical skills developed.

- 435. Coastal Zone Management (2).** *Prerequisite: Advanced undergraduate standing.* A review of ecological features and of management policies for coastal communities with a description of relevant federal and state programs.
- 439. Coastal Wetlands Ecology (4).** *Prerequisites: BY 101, 102, 103, 104.* This course will focus on coastal and near shore wetlands, with an emphasis on biogeochemical processes, ecological function, and conservation. Lecture and laboratory.
- 459. Shark and Ray Biology (2).** *Prerequisites: BY 101, 102, 103, 104.* This course provides an introduction to the biology of sharks and rays, with special emphasis on regional shark fauna and field techniques. Topics covered include, but are not restricted to, evolution and systematics of chondrichthyan fishes, physiology, reproduction and life history, diet, ecology, and conservation biology. Lecture and lab experiences.
- 460. Dolphins and Whales (2).** *Prerequisites: BY 320 and MBY 486.* This course enables 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 of the order Cetacea. Lecture and laboratory. (Not open to students with credit in MBY 481.)
- 461. Marine Behavioral Ecology (4).** *Prerequisite: BY 332. Recommended: MS 204.* This course 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. Lecture, laboratory, and field exercises (some overnight).
- 462. Marine Protozoology (4).** *Prerequisites: BY 101, 102, 103, 104 or MBY 309.* A study of the major groups of protists from a variety of marine habitats, including their taxonomy, structure, and ecology of methods of identification. Lectures, laboratory, and field trips.
- 464. Introduction to Neurobiology (4).** *Prerequisite: Advanced undergraduate standing.* An introduction to the neuroanatomy and neurophysiology of marine invertebrates and vertebrates. A neurosim computer package is used to help illustrate the basic principles and to allow a detailed exploration of neurophysiology and neural networks. Lecture and lab.
- 465. Biology and Conservation of Marine Turtles (2).** *Prerequisites: BY 101, 102, 103, 104.* This course will cover the identification, distribution, nesting behavior, migratory behavior, population biology and genetics, evolution, and conservation of marine turtles. Lecture and laboratory. Overnight field trip and special fees apply.
- 481. Marine Mammals (4).** *Prerequisites: BY 101, 102, 103, 104.* This course will cover the evolutionary history, taxonomy/classification, anatomy, physiology, behavior, conservation/management issues, and research techniques related to marine mammals. Lecture and laboratory. (Not open to students with credit in MBY 460.)
- 486. Marine Vertebrate Zoology (4).** *Prerequisites: BY 101, 102, 103, 104.* A study of marine fishes, reptiles and mammals, with an in-depth, comprehensive treatment of their systematics, zoogeography, and ecology. Lectures will encompass subject matter on a nonregional basis. Field and laboratory work will stress the vertebrate fauna of the northern Gulf of Mexico. Most of the courses will be devoted to fishes. Students will have an opportunity to assemble a collection of vertebrate species.
- 487. Marine Invertebrate Zoology (4).** *Prerequisites: BY 101, 102, 103, 104.* An examination of the systematics, ecology, physiology, and phylogenetic relationships of locally occurring marine invertebrate taxa. Lecture, laboratory, and field work required. Opportunity to acquire collections of local fauna.
- 491. Directed Research (2).** *Prerequisite: Consent of instructor.* Students may enroll by special arrangement to do research in any of the subject areas of marine science currently being offered at the Sea Laboratory.
- NOTE:** Other Marine Science courses taught at the Sea Lab located on Dauphin Island, Alabama, include GY 329, Coastal Climatology, and GL 390, Marine Geology. Descriptions of these courses are listed under the Department of Physical and Earth Sciences.

**PLANS OF STUDY
BACHELOR OF SCIENCE
MAJOR: BIOLOGY**

I. Plan of Study: CONCENTRATION IN ECOLOGY AND ENVIRONMENTAL BIOLOGY

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101	3	EH 102	3
BY 101	3	BY 102	3
BY 103	1	BY 104	1
CY 105	3	CY 106	3
CY 107	1	CY 108	1
HY sequence ²	3	HY sequence ²	3
Behavioral/Social Science ¹	3	CS 201 or higher	3
STU 101	0		
	17		17

SOPHOMORE YEAR

Fall		Spring	
BY Core ³	4	BY Core ³	4
BY 370	2	EH 141	3
MS 112 or higher	3	MS 113 ⁴	3
CY 231	4	CY 232	4
EH literature ⁵	3	EH literature ⁵	3
	16		17

JUNIOR YEAR

Fall		Spring	
BY Core ³	4	BY Group II ⁷	4
BY Group I ⁶	4	BY or minor electives ⁸	4
BY or minor electives ⁸	4	Social/Behavioral Science ¹	3
PHS 201	3	PHS 202	3
PHS 203	1	PHS 204	1
	16		15

SENIOR YEAR

Fall		Spring	
BY or minor electives ⁸	13	BY or minor electives ⁸	13
Fine Arts ⁹	3	BY 496	1
	16		14

TOTAL HOURS: 128

¹Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221

²Select from HY 101 & 102 or 201 & 202

³Select from BY 322, 332, or 373

⁴MS 113 is a prerequisite for PHS 201

⁵Select 2 from EH 201, 202, 203, 204, 219, 220, 231, or 232

⁶BY Group I: Select from BY 412, 413, 434, 445, 473, 478, 479, 487

⁷BY Group II: Select from BY 320, 323, 406, 407, 422, 442, 452, 453, 458, 460 or 476

⁸All Biology majors must complete a minor. Most electives must be at 300/400 level; some electives in this program may be offered only during summer.

II. Plan of Study: CONCENTRATION IN MARINE BIOLOGY

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
BY 101	3	BY 102	3
BY 103	1	BY 104	1
CY 105	3	CY 106	3
CY 107	1	CY 108	1
EH 101	3	EH 102	3
HY sequence ¹	3	HY sequence ¹	3
STU 101	0	CS 201 or higher	3
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	14		17

SOPHOMORE YEAR

Fall		Spring	
BY Core ²	4	BY Core ²	4
BY 370	2	EH 141	3
MS 112 or higher	3	MS 113 ³	3
CY 231	4	CY 232	4
EH literature ⁴	3	EH literature ⁴	3
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	16		17

JUNIOR YEAR

Fall		Spring	
BY Core ²	4	Minor electives ⁵	7
PHS 201 & 203.	4	PHS 202 & 204.	4
Social/Behavioral Science ⁶	3	Social/Behavioral Science ⁶	3
Minor	3		
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	14		14

SUMMER BETWEEN JUNIOR AND SENIOR YEAR IN RESIDENCE AT DAUPHIN ISLAND SEA LAB

BY Group II:	MBY 486 or MBY 487	4
	MBY 415	4
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		8

SENIOR YEAR

Fall		Spring	
Minor electives ⁵	9	Minor electives ⁵	7
Fine Arts ⁷	3	BY 496	1
	<hr/>		<hr/>
	12		8

SUMMER FOLLOWING SENIOR YEAR IN RESIDENCE AT DAUPHIN ISLAND SEA LAB

MBY 411 or 423	4
MBY Group I Elective ⁸	4
	<hr/>
	8

TOTAL HOURS: 128

¹Select from HY 101 & 102 or 201 & 202

² Select from BY 322, 332, or 373

³ MS 113 is a prerequisite for PHS 201

⁴ Select 2 from EH 201, 202, 203, 204, 219, 220, 231, or 232

⁵ All Biology majors must complete a minor. Most electives must be at 300/400 level; some electives in this program may be offered only during summer.

⁶ Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221

⁷ Select from ART 202, MU 233, DR 242, or FL 101

⁸ MBy Group I elective (see Marine Biology Program Advisor for current list of approved courses)

III. Plan of Study: CONCENTRATION IN PRE-HEALTH PROFESSIONAL BIOLOGY

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101	3	EH 102	3
BY 101	3	BY 102	3
BY 103	1	BY 104	1
CY 105	3	CY 106.....	3
CY 107	1	CY 108.....	1
MS 112 or higher	3	MS 113 ²	3
Fine Arts ¹	3	EH 141	3
STU 101.....	0		
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	17		17

SOPHOMORE YEAR

Fall		Spring	
EH literature ³	3	EH literature ³	3
HY sequence ⁴	3	HY sequence ⁴	3
CY 231	4	CY 232.....	4
BY Core: BY 373	4	BY Core: BY 322	4
CS 201 or higher	3	Social/Behavioral Science ⁶	3
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	17		17

JUNIOR YEAR

Fall		Spring	
BY Group II: BY 320	4	BY Group I: BY 434	4
BY 370	2	PHS 202 ¹	3
PHS 201 ³	3	PHS 204.	1
PHS 203	1	BY or minor electives ⁷	8
BY or minor electives ⁷	4		
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	14		16

SENIOR YEAR

Fall		Spring	
BY Core: BY 332	4	BY or minor electives ⁷	12
BY or minor electives ⁷	10	BY 496	1
Social/Behavioral Science ⁶	3		
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	17		13

TOTAL HOURS: 128

¹ Select from ART 202, MU 233, DR 242, or FL 101

² MS 113 or higher math

³ Select 2 from EH 201, 202, 203, 204, 219, 220, 231, or 232

⁴ Select from HY 101 & 102 or 201 & 202

⁵ Student may elect to take calculus-based PHS 211/212 in place of PHS 201/202

⁶ Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221

⁷ All Biology majors must complete a minor. Most electives must be at 300/400 level; some electives in this program may be offered only during summer.

Also recommended: BY 323, 402, 403, 450; CY 362; minor in chemistry or special studies

IV. Plan of Study: CONCENTRATION IN ORGANISMAL BIOLOGY

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101	3	EH 102	3
BY 101	3	BY 102	3
BY 103	1	BY 104	1
CY 105	3	CY 106	3
CY 107	1	CY 108	1
HY sequence ¹	3	HY sequence ¹	3
Social/Behav Sci ²	3	CS 201 or higher	3
STU 101	0		
	<hr/>		<hr/>
	17		17

SOPHOMORE YEAR

Fall		Spring	
BY Core ³	4	BY Core ³	4
BY 370	2	EH 141	3
MS 112 or higher	3	MS 113 ⁴	3
CY 231	4	CY 232	4
EH literature ⁵	3	EH literature ⁵	3
	<hr/>		<hr/>
	16		17

JUNIOR YEAR

Fall		Spring	
BY Core ³	4	BY Group II ⁷	4
BY Group I ⁶	4	BY or minor electives ⁸	4
BY or minor electives ⁸	4	Social/Behavioral Science ²	3
PHS 201 & 203.	4	PHS 202 & 204.	4
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	16		15

SENIOR YEAR

Fall		Spring	
BY or minor electives ⁸	13	BY or minor electives ⁸	13
Fine Arts ⁹	3	BY 496	1
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	16		14

TOTAL HOURS: 128

¹Select from HY 101 & 102 or 201 & 202

²Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221

³Select from BY 322, 332, or 373

⁴MS 113 is a prerequisite for PHS 201

⁵Select 2 from EH 201, 202, 203, 204, 219, 220, 231, or 232

⁶BY Group I: Select from BY 403, 412, 413, 434, 445, 473, 478, 479

⁷BY Group II: Select from BY 320, 323, 406, 407, 422, 442, 451, 452, 453, 458, 460, 476

⁸All Biology majors must complete a minor. Most electives must be at 300/400 level; some electives in this program may be offered only during summer.

⁹Select from ART 202, MU 233, DR 242, or FL 101

V. Plan of Study: CONCENTRATION IN CELLULAR AND MOLECULAR BIOLOGY ^{10, 11, 12}

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
BY 101	3	BY 102	3
BY 103	1	BY 104	1
CY 105	3	CY 106	3
CY 107	1	CY 108	1
EH 101	3	EH 102	3
MS 112 or higher	3	MS 113 ³	3
EH 141	3	Fine Arts ¹	3
STU 101	0		
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	17		17

SOPHOMORE YEAR

Fall		Spring	
BY core (322 or 373) ³	4	BY core (322 or 373) ³	4
CY 231	4	CY 232	4
CS 201 or higher	3	Soc./Behav. Sci ⁴	3
HY seq ⁵	3	HY seq ⁵	3
EH Literature ⁶	3	EH Literature ⁶	3
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	17		17

JUNIOR YEAR

Fall		Spring	
BY Group II: BY 450	4	BY Group II: BY 323	4
PHS 201 ⁷	3	PHS 202 ⁷	3
PHS 203	1	PHS 204	1
BY core (332) ⁸	4	BY or Minor electives ⁹	7
BY 370	2		
BY or Minor electives ⁹	3		
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	17		15

SENIOR YEAR

Fall		Spring	
BY elective	4	BY Group I ⁸	4
BY or minor electives ⁹	8	BY or minor electives ⁹	8
Soc./Behav. Sci ⁴	3	BY 496	1
	<hr/>		<hr/>
	15		13

TOTAL HOURS: 128

¹Select from ART 202, MU 233, DR 242, or FL 101

²BY Core

³MS 113 or higher math

⁴Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221

⁵Select from HY 101 & 102 or 201 & 202

⁶Select 2: EH 201, 202, 203, 204, 219, 220, 231, or 232

⁷Student may elect to take calculus-based PHS 211/212 in place of PHS 201/202

⁸BY Group I: Select from BY 412, 413, 434, 473

⁹All Biology majors must complete a minor. Most electives must be at 300/400 level.

¹⁰A chemistry minor, including Biochemistry (CY 362 and/or 363) is highly recommended for students intending to pursue a graduate degree in Cellular and Molecular Biology.

¹¹Biochemistry (CY 362) is highly recommended for this concentration

¹²BY327 and/or BY 427 is/are highly recommended for this concentration

PLANS OF STUDY
BACHELOR OF ARTS
MAJOR : BIOLOGY

**I. Plan of study: CONCENTRATION IN NATURALIST BIOLOGY
with law enforcement minor.**

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101	3	EH 102	3
BY 101	3	BY 102	3
BY 103	1	BY 104	1
CY 105	3	CY 106	3
CY 107	1	CY 108	1
CJ 101	3	CJ 202	3
Elective	3	Wellness ²	3
STU 101	0		
	17		17

SOPHOMORE YEAR

Fall		Spring	
BY Core ³	4	BY Core ³	4
BY 370	2	EH 141	3
MS 112 or higher	3	MS 108, 110, 113 or higher Math	3
EH literature ⁴	3	EH literature ⁴	3
SH Elective ⁵	3	SH Elective ⁵	3
	15		16

JUNIOR YEAR

Fall		Spring	
BY Core ³	4	BY Group II ⁷	3
BY Group I ⁶	3	BY elective	3
CJ 363	3	CJ 370	3
CS 201 or higher	3	Social / Behavioral Sciences ⁸	3
HY sequence ¹	3	HY Sequence ¹	3
	16		15

SENIOR YEAR

Fall		Spring	
BY elective 300+	7	BY 496	1
CJ 402	3	CJ 460	3
Social / Behavioral Sciences ⁸	3	CJ elective 300+	3
Elective	3	300+ elective	6
	16	Elective	3
			16

TOTAL HOURS: 128

¹Select from HY 101 & 102 or HY 201 & 202

²Select from MSC 113, 115, 116, FCS 215 or HPE 109

³Select from BY 322, 332, 373

⁴Select 2 from EH 201, 202, 203, 204, 219, 220, 231, or 232

⁵See Academic Advisor when selecting Spanish electives (this will count as Fine Art requirement)

⁶For Group I courses, select from BY 403, 412, 413, 434, 445, 473, 478, or 479

⁷For Group II courses, select from BY 301, 302, 320, 323, 406, 407, 422, 442, 451, 452, 453, 458, 460, 475, or 476

⁸Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221

II. Plan of study: CONCENTRATION IN GENERAL BIOLOGY

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101	3	EH 102	3
BY 101	3	BY 102	3
BY 103	1	BY 104	1
CY 105	3	CY 106	3
CY 107	1	CY 108	1
HY sequence ¹	3	HY Sequence ¹	3
Elective	3	Wellness ²	3
STU 101	0		
	<hr/>		<hr/>
	17		17

SOPHOMORE YEAR

Fall		Spring	
BY Core ³	4	BY Core ³	4
BY 370	2	EH 141	3
MS 112 or higher	3	MS 108, 110, 113 or higher Math	3
EH literature ⁴	3	EH Literature ⁴	3
FL Elective ⁵	3	FL Elective ⁵	3
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	15		16

JUNIOR YEAR

Fall		Spring	
BY Core ³	4	BY Group II ⁶	4
BY Group I ⁷	4	BY or Minor electives ⁷	9
BY or Minor electives ⁷	4	Social / Behavioral Sciences ⁹	3
CS 201 or higher	3		
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	15		16

SENIOR YEAR

Fall		Spring	
BY or Minor elective ⁷	13	BY or Minor elective ⁷	15
Social / Behavioral Sciences ⁹	3	BY 496	1
	<hr/>		<hr/>
	16		16

TOTAL HOURS: 128

¹Select from HY 101 & 102 or HY 201 & 202

²Select from MSC 113, 115, 116, FCS 215, or HPE 109

³Select from BY 322, 332, 373

⁴Select 2 from EH 201, 202, 203, 204, 219, 220, 231, or 232

⁵See Academic Advisor when selecting Foreign Language electives (this will count as Fine Arts requirement)

⁶For Group I courses, select from BY 403, 412, 413, 434, 445, 473, 478 or 487

⁷Most minor electives must be at the 300/400 level

⁸For Group II courses, select from BY 301, 302, 320, 323, 406, 407, 422, 442, 451, 452, 453, 458, 460, 475, or 476

⁹Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221

**ALBERT P. BREWER DEPARTMENT OF
CRIMINAL JUSTICE**

126 BREWER HALL

Department Head: Richards P. Davis
Professors: Davis, Kania, R. Mellen
Associate Professor: Morgan
Assistant Professors: Buttram, Lang
Instructors : Haney, N. Mellen, Patton

CRIMINAL JUSTICE MAJOR

The Department of Criminal Justice merges liberal arts and professional studies into a well-balanced curriculum. A Bachelor of Science with a major in Criminal Justice is a solid foundation for law school or graduate study, in addition to being a superb preparation for employment in the rapidly growing field of criminal justice. The core courses provide a basic understanding of the nature of crime and society's reaction to crime, as well as an in-depth investigation of the various components within the Criminal Justice System. Studies in concentration areas provide students the opportunity to acquire knowledge and skills which enhance future employment and serve as a basis for advanced studies.

ACADEMIC CONCENTRATIONS

Concentration in Corrections. This concentration prepares students for working with individuals who have been placed under the custody of the correctional system. The purpose of corrections is two-fold: to punish individuals who have committed crimes and to rehabilitate those same individuals for successful re-entry into society. Studies in juvenile justice examine the treatment of juvenile offenders.

Concentration in Forensic Investigations. This concentration prepares students for careers as criminal investigators or crime scene technicians. It provides insights into basic investigative skills, as well as specialized skills in drug, homicide, sex offenses, child abuse, and arson investigations. The main theme of Forensic Investigations, however, is crime scene processing, identification and collection of physical evidence, and the presentation of evidence into a court of law.

Concentration in Law Enforcement. This concentration focuses on the study of the role and functions of police organizations as agents of crime prevention in a democratic society, including an understanding of police history, organizational structure, policies, planning, and coordination between various police organizations. The importance of establishing and maintaining positive, supportive relations with the public is an area of special interest.

PLAN OF STUDY

The Bachelor of Science with a major in Criminal Justice requires the following, which meets the general academic regulations: a minimum of 128 hours consisting of 50 hours of General Studies courses; 18 hours of Criminal Justice core courses; 24 hours in a Criminal Justice concentration; and 36 hours of minor and elective courses.

NOTE: Criminal Justice majors **must** obtain a minor outside the department. Students selecting the Forensic Investigations concentration must select a minor in one of the following disciplines: Accounting, Biology, Chemistry, Computer Science, Computer Information Systems, Finance, Geography, Physics, or Psychology. Chemistry is the minor most highly recommended. A second minor in Spanish is encouraged. For all other Criminal Justice concentrations, Spanish is the preferred minor or co-minor.

Criminal Justice Core Curriculum

18 hours required for all CJ majors

CJ 101	Introduction to Criminal Justice	3 hours
CJ 201	Criminal Law	3 hours
CJ 300	Theories of Crime Causation	3 hours
CJ 302	Research Methods	3 hours
CJ 325	Criminal Courts	3 hours
Select one course from the following:		
Senior Internship: CJ 471 or 472 or Senior Seminar: CJ 494, 495 or 496		3 hours

Corrections Concentration 24 hours

CJ 200	Introduction to Corrections	3 hours
CJ 310	Criminal Behavior and Rehabilitation Strategies	3 hours
CJ 311	Correctional Techniques	3 hours
CJ 315	Community-Based Corrections	3 hours
CJ 322	Juvenile Agencies	3 hours
+9 hours of CJ electives		

Forensic Investigations Concentration 24 hours

CJ 202	Introduction to Law Enforcement	3 hours
CJ 304	Introduction to Forensic Investigations	3 hours

CJ 430	Criminalistics	3 hours
CJ 456	Homicide Investigation	3 hours
CJ 460	Criminal Investigation	3 hours
	+9 hours of CJ electives	

Law Enforcement Concentration 24 hours

CJ 202	Introduction to Law Enforcement	3 hours
CJ 363	Foundations of Law Enforcement	3 hours
CJ 370	Police Administration	3 hours
CJ 402	Police and Community Relations	3 hours
CJ 460	Criminal Investigation	3 hours
	+9 hours of CJ electives	

Courses credited within the core or a concentration will not be credited within another concentration or minor.

Students who are not majoring in Criminal Justice may minor in Criminal Justice, Corrections, Forensic Investigations, or Law Enforcement. Each minor requires a minimum of 21 credit hours. A minor in Criminal Justice consists of CJ 101, CJ 200, CJ 201, CJ 202, CJ 300, CJ 325 and 3 hours of CJ electives. A minor in Corrections consists of CJ 101, CJ 200, CJ 310, CJ 311, CJ 315, CJ 322, and 3 hours of CJ electives. A minor in Forensic Investigations consists of CJ 101, CJ 202, CJ 304, CJ 430, CJ 456, CJ 460, and 3 hours of CJ electives. A minor in Law Enforcement consists of CJ 101, CJ 202, CJ 363, CJ 370, CJ 402, CJ 460, and 3 hours of CJ electives.

PLAN OF STUDY

**BACHELOR OF SCIENCE
MAJOR: CRIMINAL JUSTICE**

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall	Spring
EH 1013	EH 1023
HY sequence3	HY sequence3
Natural Science4	Natural Science4
CJ 1013	CJ 200 or 2023
MS 108/110/112.....3	MS 204 or approved alternate3
STU 101.....0	
<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Fall	Spring
Literature*3	Literature*3
EH 1413	Fine Arts elective3
SY 2213	PSY 2013
CS 2013	CJ 2013
CJ 3003	Elective3
CJ Concentration3	
<hr/> 18	<hr/> 15

JUNIOR YEAR

Fall	Spring
CJ 3253	CJ Concentration6
CJ 3023	Minor/electives 300+9
PSC 1003	
CJ Concentration6	
General electives/minor3	
<hr/> 18	<hr/> 15

SENIOR YEAR

Fall	Spring
CJ Concentration6	Minor/electives 300+ 12
Minor/electives 300+9	Internship (CJ 471 or CJ 472) or Senior Seminar (CJ 494, CJ 495, or CJ 496) 3
15	15
TOTAL HOURS: 128	

*Select from these courses: EH 201, 202, 203, 204, 219, 220, 231, or 232.

CRIMINAL JUSTICE (CJ) DESCRIPTION OF COURSES

Core Courses:

- 101. Introduction to Criminal Justice (3).** Survey of the agencies and processes involved in the Criminal Justice System: the police, the prosecutor, the public defender, the courts, and corrections.
- 201. Criminal Law (3).** *Prerequisite: CJ 101.* Analysis of the origin and sources of criminal law as well as definition of parties to crimes and affirmative defenses. Discussion of specific crimes of common law and in-state and national statutes.
- 300. Theories of Crime Causation (3).** An examination of biological, psychological, sociological, political and economic theories of crime causation.
- 302. Research Methods (3).** *Prerequisite: CJ 101.* An introduction to the theory, design, collection, and analysis of data in criminal justice research.
- 325. Criminal Courts (3).** *Prerequisite: CJ 101.* An analysis of the roles of the Criminal Courts in their interactions with the other major participants in the Criminal Justice System; court structure and functions; selected critical cases and key issues, such as sentencing and plea bargaining.

Courses That May Count as Requirements or Electives Toward Any One Concentration or Minor:

- 200. Introduction to Corrections (3).** *Prerequisite: CJ 101.* Philosophical foundations of punishments, historical developments in American penology. Corrections in contemporary America.
- 202. Introduction to Law Enforcement (3).** *Prerequisite: CJ 101.* The development of contemporary American police. Law enforcement role, philosophy, values, culture, discretion, organizational control, accountability, corruption, misconduct, police-community relations, and future trends.
- 205. Legal Research and Records (3)** *Prerequisite: CJ 101.* Study of essential legal research skills and knowledge about acquiring legal information from the statutes, case-law books, legal records, on-line data retrieval services and other legal resources, and essential content of key reports and documents currently used in the courts.
- 304. Introduction to Forensic Investigations (3).** *Prerequisite: CJ 101.* Introduction to the development of Forensic Investigations and its contribution to the Criminal Justice System and the applications of the scientific discipline to the examination and analysis of physical evidence.
- 310. Criminal Behavior and Rehabilitation Strategies (3).** *Prerequisite: CJ 200.* A study of criminal behavior from a psychological perspective with correctional rehabilitation programs and strategies serving as the focus. The effectiveness of various correctional institutions and their programs and strategies will also be examined.
- 311. Correctional Techniques (3).** *Prerequisite: CJ 200.* An introduction to correctional strategies and the theories on which they are based. Among the topics discussed are counseling, psychotherapy and psychoanalysis, humanistic psychology, learning theory, and behavior modification. This course will also provide an in-depth examination of both assessment and counseling strategy effectiveness with offender populations.
- 315. Community Based Corrections (3).** *Prerequisite: CJ 200.* A survey of non-institutional correctional programs focusing on alternatives to incarceration in community settings. Programs reviewed include prerelease, parole, halfway houses, restitution centers, probations, and community correctional centers.
- 322. Juvenile Agencies (3).** *Prerequisite: CJ 200 or CJ 205.* Examination of the historical aspects of the juvenile justice system with emphasis on juvenile rights in the present juvenile court system and pretrial techniques.
- 352. Evidence (3).** *Prerequisite: CJ 325.* Analysis of the rules of evidence, their origins, and types. Constitutional limitations upon their use, methods of safeguarding their value. The trial and techniques for testifying.
- 353. Correctional Law (3).** *Prerequisite: CJ 200 or CJ 205.* Legal problems of the convicted from conviction to release; pre-sentence investigation, sentencing, civil rights loss and restoration, and other legal problems confronting the convicted.

361. **Constitutional Law (3).** *Prerequisite: CJ 101.* Analysis of the Constitution of the United States as it affects the law enforcement and corrections field, to wit: the 1st, 4th, 5th, 6th, and 8th Amendments to the Constitution.
362. **Constitutional Law II (3).** *Prerequisites: CJ 361.* A study of constitutional issues in the administration of justice, fair trial guarantees, humane punishment, and the civil and criminal liability of criminal justice professionals.
363. **Foundations of Law Enforcement (3).** *Prerequisite: CJ 202.* An examination of the foundations of American law enforcement from its cultural heritage in England to the present.
370. **Police Administration (3).** *Prerequisite: CJ 202.* Organizational structure and coordination of all branches of law enforcement agencies; police, staff, and auxiliary function; their interrelationships and interdependence.
395. **Crime Prevention (3).** *Prerequisite: CJ 101.* Analysis of the roles of the Criminal Justice System and the private sector in preventing crime. Community involvement as a source of preventing crime. Crime prevention strategies and techniques for evaluating prevention programs.
399. **Study Tour (3).** Topics, excursions, and requirements determined by the department. May be duplicated for credit up to 6 hours. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.
400. **Protective Systems (3).** *Prerequisite: CJ 101.* The criminal threat, protective system concept; systems configuration and cost benefit analysis of currently available protective systems.
402. **Police and Community Relations (3).** *Prerequisite: CJ 202.* Study of the numerous and complex factors involved in the area of human relations as it affects policing and police management.
405. **Judicial Administration (3).** *Prerequisite: CJ 325.* Advanced study of the workings of the state and federal court systems, with a focus on the administrative support agencies of the courts, including the responsibilities of clerks of courts, court administrators, with an examination of careers in the court systems of the state and federal government, and the issues facing the judiciary.
406. **Retail Security (3).** *Prerequisite: CJ 101.* Employee thefts, shoplifting, robbery, burglary, shortages, special fire problems, insurance recovery.
410. **Correctional Administration (3).** *Prerequisite: CJ 200.* Advanced study of the workings of the state and federal prison systems and local jails. The application of the theories of organization, management and public administration to the operations of correctional units, policy matters, and other issues facing corrections.
411. **Victimless Crimes (3).** *Prerequisite: Junior standing with 18 hours in CJ.* Study of controversial area of law that deals with consensual crimes. Topics to be included for discussion may be homosexuality; drugs; obscenity and pornography; prostitution; gambling. The history of legislative enactments and judicial decisions will be dealt with, as well as the social and political implications of enforcement to both police agencies and their clients.
417. **Criminal and Deviant Behavior (3).** *Prerequisite: CJ 300 or SY 320.* An analysis of criminal and deviant behavior systems with an emphasis on classical and contemporary theories of crime causation.
420. **Probation and Parole (3).** *Prerequisites: CJ 200 or CJ 202.* Development, organization, operation of probation and parole with emphasis on alternatives to incarceration.
430. **Criminalistics (3).** *Prerequisite: CJ 304.* Methods of scientific analysis, comparison and identification of physical evidence; blood and body fluids, casts and molds, detective dyes, fingerprints, and trace evidence.
456. **Homicide Investigation (3).** *Prerequisite: CJ 304.* Special problems involved in homicide investigation, including the forensic autopsy.
460. **Criminal Investigations (3).** *Prerequisite: CJ 202 or CJ 304.* Practical application of investigative techniques for specific crimes, such as sex offenses, murder, robbery, arson, assaults, and fraud cases.
463. **Crime Scene Processing (3).** *Prerequisite: CJ 304.* In-depth and practical look at various types of physical evidence and methods by which evidence is collected and transported to forensic crime laboratories.
464. **Interviews and Interrogations (3).** *Prerequisite: CJ 200 or 202 or 205 or 304.* Discussions and practical exercises covering the various techniques used by criminal justice practitioners to elicit information from witnesses and criminal suspects.
466. **Drugs of Abuse (3).** *Prerequisites: BY 102/104 or CY 106/108; and CJ 430 or NU 306.* Drugs of abuse, their field identification and drug abuse education.
467. **Trace Evidence (3).** *Prerequisites: BY 102/104 or CY 106/108; and CJ 430.* Review of techniques used in the analysis of hairs, fibers, and minute items of evidence related to criminal matters.
471. **Internship in Criminal Justice (3).** *Prerequisites: Junior standing, consent of Internship Director, and only for students majoring in Criminal Justice.* Supervised work experience in an approved Criminal Justice agency. The student is required to attend a pre-announced orientation meeting prior to beginning internship. (Not open to in-service personnel or those with prior CJ work experience unless approved by Internship Director.)
472. **Senior Internship in Criminal Justice (3).** *Prerequisites: Senior standing, consent of Internship Director, and only for students majoring in Criminal Justice.* Supervised work experience in an approved Criminal Justice agency. The student is required to attend a pre-announced orientation meeting prior to beginning internship and additional scheduled meetings with the Internship Director. (Not open to in-service personnel or those with prior CJ work

experience unless approved by Internship Director.) This is a Senior Capstone course, and satisfactory work requires completing the EPP and other senior exit requirements.

- 482. Independent Study in Criminal Justice (3).** *Prerequisite: Junior standing with 18 hours in CJ.* An opportunity for the advanced student to explore an area of special interest. Student must have a supervising criminal justice faculty member agree to a written proposal or outline for an appropriate topic for study and then must secure the approval of the Department Head.
- 485, 486. Advanced Seminar in Criminal Justice (3) (3).** *Prerequisite: Junior standing with 18 hours in CJ.* An in-depth study of current issues in Criminal Justice. The content will vary each semester. Students seeking admission must have advanced standing and secure approval of Department Head. May be duplicated for credit for a total of six (6) semester hours.
- 488. Seminar Series (1 hour each).** *Prerequisite: Junior standing with 18 hours in CJ.* Seminars and tutorials dealing with current topics and issues in the field. No more than 6 hours credit may be earned.
- 494. Senior Seminar I (3).** *Prerequisites: Senior standing in the Criminal Justice major and completion of all other criminal justice core requirements.* Capstone course which utilizes the student's knowledge and academic skills, including pursuing archival research, journal keeping, note taking and report writing to address a topic or issue of contemporary interest in criminal justice or one of its sub-fields. While the topic or issue may change with each offering, the skills exercised will be those needed to prepare the senior for careers in criminal justice professions.
- 495. Senior Seminar II (3).** *Prerequisites: Senior standing in the Criminal Justice major and completion of all other criminal justice core requirements.* Capstone course which utilizes the student's knowledge and academic skills, including pursuing archival research, journal keeping, note taking and report writing to address a topic or issue of contemporary interest in criminal justice or one of its sub-fields. While the topic or issue may change with each offering, the skills exercised will be those needed to prepare the senior for careers in criminal justice professions.
- 496. Senior Seminar III (3).** *Prerequisites: Senior standing in the Criminal Justice major and completion of all other criminal justice core requirements.* Capstone course which utilizes the student's knowledge and academic skills, including pursuing archival research, journal keeping, note taking and report writing to address a topic or issue of contemporary interest in criminal justice or one of its sub-fields. While the topic or issue may change with each offering, the skills exercised will be those needed to prepare the senior for careers in criminal justice professions.

DEPARTMENT OF DRAMA (DR)

Accredited by the National Association of Schools of Theatre

344 STONE CENTER

Department Head: Randal Blades

Professor: Clements

Associate Professor: Blades

Assistant Professors: Boynton, Ivey, Peck

The mission of the Jacksonville State University Drama Department is to provide a strong liberal arts education while promoting respect for and appreciation of the art of theatre and film. Through an academically rigorous and supportive, creative environment, we cultivate critical thinking, analysis, and skills for artistic expression needed to build a career, while providing opportunities for higher level development within our students' chosen specialties. We also seek to produce a multifaceted, high quality, and challenging theatrical experience on our stage to enrich the university and surrounding communities.

The Department of Drama offers a Bachelor of Arts with a concentration in either Performance or Design/Technical and minors in Drama or Film and Entertainment Technology. All students majoring in Drama must complete fifty-one (51) hours to include thirty-three (33) hours of core classes in addition to eighteen (18) hours within their concentration. A Bachelor of Arts in Drama requires a minimum of 128 semester hours.

Core:

All Drama majors must complete the following core classes: DR 241, 242, 250, 284, 342, 350, 361, 362, 375, 450, 463, and 490; EH 373 or EH 410.

Concentrations:

Performance – Eighteen (18) hours, which must include DR 290, 354, 441 and nine (9) hours of Performance electives.

Design/Technical – Eighteen (18) hours, which must include DR 243, 270; six (6) hours from the following design courses: DR 371, 372, 377, 378, 386, 389 or 486; and six (6) hours of Design/Technical electives.

Drama Minor: The requirements for a minor in Drama are twenty-one (21) hours of Drama courses, which must include DR 241, 242, 250, 284, 350, 361, 362, 450, and three (3) hours of Drama electives.

Film and Entertainment Technology Minor: The requirements for a minor in Film and Entertainment Technology are a minimum of twenty-four (24) hours, which must include DR 230, 270, 284, 330, EH 409, and nine (9) hours of electives chosen from DR 370, 371, 372, 377, 378, 385, 386, 387, 389, 391, 392, 398, 430, 486, 487, or 498. This minor is not available to Drama majors.

Film Technology Certificate: The requirements for a certificate in Film Technology include the following fifteen (15) hours: DR 230, 231, 232, 235, and three hours of electives by advisement.

DRAMA (DR)
DESCRIPTION OF COURSES

- 230. Introduction to Filmmaking (3).** Study of the filmmaking process from concept to completion with special emphasis on the relationship between various jobs of the production team.
- 231. Film Technology Foundations I (3).** Introduction to film production and technical crew positions. Best practices and techniques in lighting, audio, grip and other production positions with an emphasis on recognized safety standards.
- 232. Film Technology Foundations II (3).** *Prerequisite: DR 231.* Advanced techniques in film production and technical work.
- 235. Camera and Film Techniques (3).** Introduction to camera set up, operation, types and lenses. Basic film techniques, including composition, setting up shots, and introductory editing.
- 241. Acting (3).** Focuses upon the actor's approach to developing a role through points of training, including improvisation, character and scene study, and analysis.
- 242. Introduction to the Theatre (3).** The appreciation of theatre as an expressive art form and as a business. A general survey of acting, directing, designing, playwriting, and audience participation.
- 243. Play Analysis for Designers and Technicians (3).** Study of plays to develop artistic and technical solutions for production.
- 250, 350, 450. Student's Theatre (1) (1) (1).** Active participation in the department's plays in the areas of scenery construction, painting, lighting, costumes, and make-up. Three laboratory hours per week arranged with drama faculty.
- 252. Honors Introduction to the Theatre (3).** Advanced strategies for developing an appreciation for theatre as an art form.
- 255, 355, 455. Music Theatre Dance (1) (1) (1).** Dance for musical theatre: a practical application of dance and movement in performance. Choreography includes works from such composers as Gershwin, Bernstein, Sondheim, and Webber.
- 260. Summer Theatre Workshop (3).** An intensive course in which students work on all phases of theatre production from building scenery to performing in a major play which will be produced for the public during the last week of the course.
- 270. Computer Graphics for the Theatre I (3).** *Prerequisite: CS 201.* Training in the use of CAD software with emphasis on specific applications of CAD to Theatre Design and Production.
- 281, 381, 481. Dramatic Laboratory (1) (1) (1).** Experiments in the basics of acting. Limit 1 hour credit per semester.
- 284. Stage Crafts (3).** Introduction to physical theatres, scenery construction and painting, properties, lighting, and sound.
- 290. Speech for the Performing Arts (3).** A course designed to improve diction, pronunciation, accent, reading, and intonation.
- 330. Introduction to Film Technology (3).** *Prerequisite: DR 230.* An introduction to the current technology used in film and video production. The course examines current trends in cinematography, editing, lighting, grip and sound. This course will include a small group production using modern production equipment.
- 331. Techniques for High Definition Cinematography (3).** Advanced lighting and electronic imagery control in high definition cinematography. Experiences with light meters and digital single-lens reflex cameras.
- 342. Directing (3).** *Prerequisites: DR 241 and permission of instructor.* Fundamental principles of theatrical directing.
- 343. Auditioning and Portfolio (3).** Exercises in preparing actors, directors, designers, technical directors, and stage managers for auditions and portfolio review.
- 344. Careers in Performance (3).** *Prerequisites: DR 241, 290 and 343.* An advanced acting course concentrating on the performance and business aspects of acting professionally.
- 351. Playwriting (3).** *Prerequisites: DR 242 and permission of instructor.* Exercise in dramaturgical technique and the completion of a stage-worthy script by each student. (Offered in alternate years, Spring.)
- 354. Movement for the Stage (3).** The examination and application of the theories of stage movement and the metakinetic process. Emphasis placed on the imaginative and artistic use of the whole body in the development of acting roles, including stage combat.
- 361, 362. Theatre History (3) (3).** Conditions under which the great plays of the world have been produced. Audience, actors, patrons, physical conditions, architecture, and the relation to the other arts. 1st semester: Antiquity to 1600. 2nd semester: 1600 to present.
- 370. Computer Graphics for the Theatre II (3).** *Prerequisite: DR 270.* Training in the use of 3D Graphics and paint programs with emphasis on Scenic Design and Costume Design.
- 371, 372. Theatrical Design I & II (3) (3).** Principles and problems of staging in arena, thrust, proscenium, and flexible theatres. Designs for settings of plays in models and perspective rendering.

375. **Stage Management (3).** A practical study of stage management duties, responsibilities, procedures, and organization during auditions, rehearsals, production meetings, and performance.
- 377, 378. **Costume Design I & II (3) (3).** Exploration of basic design elements and fabrics and their culmination into stage costume: period, character, and stylized. (Offered in alternate years, Spring.)
383. **Puppetry (3).** Scope and development of puppetry throughout the world. Practical experience in creating and performing with puppets.
385. **Stage Carpentry (3).** A practical carpentry course that explores specialized wood-working and finishing techniques for the stage, including scenery, furniture, tools, and materials.
386. **Stage Lighting (3).** Principles and problems of lighting for mood and effect in play production.
387. **Stage Makeup. (3).** Creation of straight, character, middle-age, old-age, beards, rubber prosthesis, and stylized makeup to aid the actor.
388. **Stage Costume History (3).** History of costume as to styles, period fabrics, construction, and movement for theatrical performance.
389. **Sound Design and Production (3).** Introduction to the principles of sound and the equipment used in sound production with an emphasis on digital audio, computer based editing, and Midi.
391. **Scene Painting (3).** Techniques of scene painting to include drop painting, perspective illusion, lighting consideration, budget, and equipment.
392. **Scene Painting II (3).** Advanced techniques of scene painting; molding, frescos, glazes, glosses, foliage, metals, and skies.
398. **Costume Techniques (3).** Basics of construction of stage costumes, alteration and repair of existing costumes, and the implementation of professional costume shop practices.
399. **Study Tour (3).** Topics, excursions, and requirements determined by department. May be duplicated for credit; however, only three (3) credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.
430. **Film Technology (3).** *Prerequisites: DR 230 and DR 330.* Fundamental theories and practices of cinematography and editing for film and video. Practical cinematography exercises will utilize small, professional grade HD cameras in location settings. Editing exercise will utilize professional offline editing software to complete a small group-produced short film.
441. **Acting II (3).** *Prerequisites: DR 241 and DR 290.* Advanced acting scenes and problems of various periods.
445. **Child Drama (3).** Instruction in the supervision of pre-school through elementary grade children in the spontaneous expression of ideas and characters through the theatrical form. Emphasis on the contribution of informal drama to the total development of the child.
- 451, 452, 453. **Design-Technical Practicum (1) (1) (1).** *Prerequisites: DR 250, 350, 450.* Major production assignments in the department's plays in the areas of scenery, management, painting, lighting, costumes, and makeup arranged with drama faculty.
463. **Dramatic Theory (3).** An investigation into the major theories of drama from Aristotle to the present. Extensive reading of play scripts as well as analytical works.
465. **Musical Theatre (3).** A historical study of musical theatre in America from 1735 to the present. Emphasis is on theme, composers, performers, producers, and choreographers.
475. **Special Problems in Drama (3).** *Prerequisite: Successful completion of 30 hours of drama or by advisement.* Individually designed and supervised research projects or production assignments.
- 482, 483, 484. **Performance Practicum (1) (1) (1).** *Prerequisites: DR 281, 381, 481.* Major performance roles in the areas of acting, directing, movement, and playwriting.
486. **Stage Lighting II (3).** *Prerequisite: DR 386.* Advanced lighting techniques and design problems.
487. **Stage Makeup II (3).** *Prerequisite: DR 387.* Advanced makeup techniques for theatre, film, and television. Creation of false teeth and prosthetics for three dimensional, old-age, and specialty makeup.
490. **Senior Practicum (3).** *Prerequisites: Senior standing, 39 hours in drama, and instructor's permission.* Directed practicum in one of these areas: acting, directing, design, management, technology, or theatre education.
498. **Costume Techniques II (3).** *Prerequisite: DR 398.* A continuation of DR 398. Methods of transforming a costume into a stage costume. Projects in period draping, construction, corseting, and trimming.

PLAN OF STUDY
BACHELOR OF ARTS
MAJOR: DRAMA – PERFORMANCE CONCENTRATION

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH Comp 101	3	EH Comp 102	3
HY Sequence*	3	EH 141, Oral Communications	3
MS 108	3	HY Sequence*	3
DR 242, Intro to Theatre	3	MS 110 or 112	3
DR 241, Acting.....	3	DR 284, Stage Crafts	3
STU 101.....	0	DR 250, Students Theatre	1
	15		16

SOPHOMORE YEAR

Fall		Spring	
EH 201 or 203 Literature	3	EH 202 or 204 Literature	3
Natural Science and lab*	4	Natural Science and lab*	4
PSY 201, Intro to Psychology.....	3	Social/Behavioral Science	3
DR 290, Speech for the Performer	3	CS 201	3
DR 350, Students Theatre	1	DR 450, Students Theatre	1
ART 202 or MU 233**	3	DR 354, Movement for Stage	3
	17		17

JUNIOR YEAR

Fall		Spring	
Minor/Electives	12	DR 441, Acting II.....	3
DR 361, Theatre History	3	DR 362, Theatre History	3
DR 375, Stage Management.....	3	Minor/Electives	6
	18	DR 342, Directing	3
			15

SENIOR YEAR

Fall		Spring	
DR 463, Dramatic Theory	3	EH 373 or 410	3
Minor/Electives	6	Minor/Electives	6
Drama Concentration ***	6	Drama Concentration ***	3
	15	DR 490	3
			15

TOTAL HOURS: 128; thirty-six hours must be 300+

*Must be a sequence

** Must take Art 202 or Music 233 to satisfy the Fine Arts requirement

*** Select nine hours from Performance concentration courses

PLAN OF STUDY
BACHELOR OF ARTS
MAJOR: DRAMA – DESIGN/TECHNICAL CONCENTRATION

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH Comp 101	3	EH Comp 102	3
HY Sequence*	3	HY Sequence*	3
MS 108	3	MS 110 or 112	3
DR 242, Intro to Theatre	3	DR 241, Acting	3
DR 284, Stage Crafts	3	DR 250, Students Theatre	1
STU 101.....	0	PSY 201, Intro to Psychology	3
	15		16

SOPHOMORE YEAR

Fall		Spring	
Literature	3	Literature	3
Natural Science*	4	Natural Science*	4
DR 243, Play Analysis	3	Social/Behavioral Science	3
DR 350, Students Theatre.....	1	ART 202 or MU 233**	3
CS 201, Intro to Info Tech	3	DR 270, Comp Graphics for Theatre.....	3
EH 141, Oral Communications	3		
	17		16

JUNIOR YEAR

Fall		Spring	
Minor/Electives	12	Drama Concentration***	3
DR 361, Theatre History	3	DR 362, Theatre History	3
DR 375, Stage Management	3	Minor/Electives	6
		DR 342, Directing	3
		DR 450, Students Theatre	1
	18		16

SENIOR YEAR

Fall		Spring	
DR 463, Dramatic Theory	3	EH 373 or 410	3
Minor/Electives	6	Minor/Electives	6
Drama Concentration ***	6	Drama Concentration ***	3
		DR 490, Senior Practicum	3
	15		15

TOTAL HOURS: 128; thirty-six hours must be 300+

* Must be a sequence

** Must take Art 202 or Music 233 to satisfy the Fine Arts requirement

*** Select six hours from DR 371, 372, 377, 378, 386, 389, or 486 and six additional hours from Design/Technical concentration courses

DEPARTMENT OF EMERGENCY MANAGEMENT (EM)

JSU McCLELLAN BUILDING 3181

Department Head: Jeffrey R. Ryan

Professor: Kushma

Associate Professors: Lowe, Ryan

Assistant Professors: Huang, Islam, Mann, Richards, Van Slyke

The Department of Emergency Management offers a 120-hour Bachelor of Science degree in Emergency Management. The degree is designed to prepare students for careers related to emergency and disaster management in local, state, or federal government, business, and volunteer organizations. The major area of the program requires a minimum of thirty (30) hours of Emergency Management courses, including EM 301, EM 321, EM 331, EM 411, EM 471, EM 481, and twelve hours of approved EM 300+ electives.

MINOR IN EMERGENCY MANAGEMENT (EM)

The Department of Emergency Management offers a minor in Emergency Management for students outside of the Emergency Management major. The minor consists of eighteen (18) hours of Emergency Management courses which must include EM 301, EM 321, EM 411 and nine hours of approved EM 300+ electives.

MINOR IN HOMELAND SECURITY (HS)

The Department of Emergency Management offers a minor in Homeland Security. The minor consists of eighteen (18) hours of courses which must include EM 305 and 15 hours of electives to be chosen from the following list of Emergency Management and Public Safety Telecommunications courses: EM 309, EM 341, EM 351, EM 365, EM 420, EM 450, EM 461, EM 475, EM 483 and/or PST 314. EM 301 is also a Homeland Security minor elective option for non-Emergency Management majors. A major in Emergency Management with a minor in Homeland Security will consist of a minimum of forty-eight (48) hours of Emergency Management/Public Safety Telecommunications courses for the major and minor areas alone.

PUBLIC SAFETY TELECOMMUNICATIONS (PST)

The Department of Emergency Management offers a minor in Public Safety Telecommunications. The minor consists of twenty-one (21) hours of Public Safety Telecommunications courses, including PST 110, PST 311, PST 312, PST 313, PST 314, PST 328, and three hours of approved PST electives.

PLAN OF STUDY

BACHELOR OF SCIENCE MAJOR: EMERGENCY MANAGEMENT

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall	Spring
EH 1013	EH 1023
PSY 2013	Social/Behavioral Science3
Natural Science sequence4	Natural Science sequence4
Fine Arts3	MS 108 or MS 110 or MS 1123
Minor3	Minor3
STU 101.....0	
<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Fall	Spring
Literature3	Literature3
HY sequence3	HY Sequence3
Elective3	EM 300+ elective3
EM 3013	EM 3213
Minor3	Minor3
<hr/> 15	<hr/> 15

JUNIOR YEAR

Fall		Spring	
EM 411	3	EH 141 or Fine Arts elective	3
EM 331	3	EM 300+ elective	3
Minor	3	Area V elective	3
Area V electives	3	Minor / elective	3
Elective	3		
	15		15

SENIOR YEAR

Fall		Spring	
EM 300+ elective	6	EM 481	3
Area V electives	7	EM 471	3
Elective	3	Area V electives	6
	16		12

TOTAL HOURS: 120

A PROGRAM OF STUDY FOR A BACHELOR OF SCIENCE IN EMERGENCY MANAGEMENT WITH A MINOR IN PUBLIC SAFETY TELECOMMUNICATIONS

Major

EM 301	Introduction to Emergency Management	3 hours
EM 321	Disaster Mitigation & Preparedness	3 hours
EM 331	Populations at Risk	3 hours
EM 411	Disaster Response & Recovery	3 hours
EM 471	Emergency Management Capstone course	3 hours
EM 481	Research in Disasters & Emergency Management	3 hours
	Approved EM 300 + Electives	<u>12 hours</u>
	Total EM Courses	30 hours

PST Minor

PST 110	Intro to Public Safety Communications	3 hours
PST 311	Interpersonal Communications	3 hours
PST 312	Legal Issues in Public Safety Communications	3 hours
PST 313	Introduction to Crisis Intervention	3 hours
PST 314	Introduction to Weapons of Mass Destruction	3 hours
PST 328	Technical Writing for Public Safety Communications	3 hours
	Approved PST electives	<u>3 hours</u>
	Total PST Courses	21 hours

Area I

EH 101	English Composition	3 hours
EH 102	English Composition	<u>3 hours</u>
	Total Area I	6 hours

Area II

Fine Arts	3 hours
Literature	6 hours
Speech/Humanities and Fine Arts elective*	<u>3 hours</u>
Total Area II	12 hours

Area III

MS 108 Exploring Math	
Or MS 110 Finite Math	
Or MS 112 Precalculus Algebra	3 hours
Approved Laboratory Science Sequence	<u>8 hours</u>
Total Area III	11 hours

Area IV

	History Sequence	6 hours
PSY 201	Intro to Psychology	3 hours
	Approved Social/Behavioral Science elective*	<u>3 hours</u>
	Total Area IV	12 hours

Area V

Courses to be chosen from an approved list.*

19 hours

General Electives9 hours**Total****120 hours**

*See advisor for elective choices in Area II, IV, and V.

**EMERGENCY MANAGEMENT (EM)
DESCRIPTION OF COURSES**

- 301. Introduction to Emergency Management (3).** Overview of emergency management, including a history of the field, key legislation impacting practice and current issues in the field.
- 305. Introduction to Homeland Security (3).** Overview of the administrative, legislative, and operational elements of homeland security programs and processes, including a review of homeland security history and policies.
- 309. Emergency Response to WMD Event (3).** This course will focus on the potential use of Weapons of Mass Destruction by terrorists and the proper preparedness and response by communities and jurisdictions. This course is appropriate for members of the emergency response community, emergency management, and members of the general population desiring knowledge about the real and ever-present danger of terrorist activity within the United States.
- 321. Disaster Mitigation and Preparedness (3).** *Prerequisite: EM 301.* Methods and techniques used to lessen the potential impact of disasters and improve readiness to respond. Concepts related to preparedness actions, such as planning, training, public education and disaster exercises, are reviewed as well as mitigation principles related to sustainability and the built environment.
- 325. Management of Information Security (3).** Study of information security and digital forensics using practical case studies. Emphasis is on developing security policies, security management and practices, utilization of digital forensic tools and techniques, risk management, security project management, and protection mechanisms. Major components of the course are hands-on projects on digital forensic investigation and security management case studies. (EM 325 is cross-listed with CS 307, but only one course can be counted for credit.)
- 331. Populations at Risk (3).** *Prerequisite: EM 301.* Examines social vulnerability to disaster and the needs of at-risk populations. Methods to reduce vulnerabilities and build local capacity are considered.
- 341. Legal Fundamentals in Emergency Management and Homeland Security (3).** Introduction to the legislative foundation of domestic homeland security and emergency management processes. Significant legislation will be reviewed with special consideration for the concepts that define legal duties and consequences for first responders and emergency managers.
- 346. Emergency Medical Operations for CBRNE Incidents (3).** An in-depth study for emergency medical responders that focuses on chemical, biological, radiological, nuclear, and explosive (CBRNE) incident management; treatment of victims of exposure to chemical, biological, and radiological hazards, as well as explosions. Hands-on training modules provide the emergency medical responder with the knowledge and skills to perform triage operations while in personal protective equipment (PPE) and to perform decontamination of victims. Students are required to complete the FEMA resident course PER-267 at the Center for Domestic Preparedness.
- 347. Framework for Healthcare Emergency Management (3).** An in-depth study that provides healthcare personnel with a foundation of knowledge in healthcare emergency management. The course focuses on standards, regulations, and organizations affecting healthcare entities and the integration of government agencies and stakeholders; disaster preparedness planning; staffing and personnel; emergency management issues for healthcare; personal protective equipment (PPE) and decontamination; evacuation, isolation, and quarantine; ethical issues; financial issues; public affairs; and training, drills, and exercises. Students are required to complete the FEMA resident course AWR-900 at the Center for Domestic Preparedness.
- 348. Hospital Emergency Response Training for Mass Casualty Incidents (3).** An in-depth study designed to provide medical operation guidance to healthcare professionals who may become involved in a mass casualty incident (MCI) as a result of a natural, accidental, or intentional event. The course focuses on safe and effective emergency medical response to MCI. Students are required to complete the FEMA resident course PER-902 at the Center for Domestic Preparedness.
- 349. Radiological Emergency Response Operations (3).** An in-depth study of safe and effective response to radiological incidents. Topics include radiological concepts, radiological response team operations, commercial nuclear power facilities, plume modeling, radiological instrumentation, personal protective equipment (PPE) and decontamination. Students are required to complete the FEMA resident course PER-904 at the Center for Domestic Preparedness.
- 351. Understanding Terrorism: Characteristics and Perspectives (3).** The history, methods, and philosophy of terrorism are reviewed. Emphasis is placed on extremism as a foundation for terrorist behavior, types of terrorism, and how governments and law enforcement agencies respond to terrorism. Case studies of terrorist activities and implications for emergency response are highlighted.

- 361. Hazardous Materials in Emergency Management (3).** *Prerequisite: EM 301.* Looks at key legislation regarding storage, handling, and transportation of hazardous materials, and reviews how the emergency management community plans, responds, and recovers when hazardous material incidents occur.
- 365. Public Information in Emergency Management (3).** A review of the skills needed to effectively deal with the public and media before, during, and after an emergency event. Topics will include: role and responsibilities of the Public Information Officer, understanding the roles and responsibilities of the media, conducting awareness campaigns, writing news releases, public speaking, granting interviews, media management, and dealing with high-profile incidents.
- 366. Social Media in Emergency Management (3).** Overview of the history and evolution in social media in emergency management. Provides an understanding of social media and its uses in all aspects of emergency management. Students will conduct research of better practices and how to grow an agency's social media presence. Additional topics addressed will include: identifying challenges and how to overcome them, choosing the best social media avenues for an agency and topic, and using private sector practices to enhance public sector outreach and effectiveness.
- 371. Public Administration and Policy in Emergency Management (3).** *Prerequisite: EM 301.* Focuses upon the administrative roles of local, state and federal government in times of disaster and the importance of intergovernmental relations. The policy making process and the historical evolution of disaster policy is reviewed.
- 381. Social Dimensions of Disaster (3).** *Open to all majors across the disciplines.* Overview of how individuals, groups, families, organizations, communities, and countries handle disasters before, during, and after they occur.
- 401. Economics of Disaster (3).** *Prerequisite: EM 301.* The costs of natural and manmade disasters around the world, the existing policy frameworks for reducing these costs in the industrialized world, and the ways in which these policies might be adapted for the developing world.
- 411. Disaster Response and Recovery (3).** *Prerequisite: EM 301.* How people, groups, organizations, communities and governments manage disasters in the immediate aftermath and recover from their effects, including social, physical, business, and infrastructure problems as well as intra- and inter-organizational issues. (EM 411 is cross-listed with CS 412, but only one course can be counted for credit.)
- 415. Information Technology in EM (3).** The role of technology in the support of emergency planning, response, recovery and mitigation efforts. Application of current and emerging web-based technologies. Topics include GIS, GPS, simulation and modeling software, decision support and the application of current and emerging web-based technologies.
- 420. Exercise Design and Evaluation (3).** Introduction to the fundamentals of exercise design, development and implementation. Includes a review of the different types of exercises, how they are used, and how they are conducted. Provides students with the knowledge and skills necessary to develop and conduct disaster exercises that test a community's emergency response plan and capabilities.
- 421. Medical Disaster and Emergency Management (3).** *Prerequisites: EM 301 and EM 411.* Reviews structure and functions of health care delivery systems in mass casualty situations with specific attention to intra- and inter-organizational management, ranging from emergency response triage to inter-organizational systemic management issues.
- 425. Emergency Operations Center Management (3).** *Prerequisites: EM 301 and EM 411.* This course is designed to introduce the student to Emergency Operations Center (EOC) management. The student will learn accepted concepts, methodologies, and strategies of EOC design and management and apply this knowledge to operations-based scenarios. The successful student will complete this course possessing a baseline understanding of the purpose and scope of an EOC operation and the components necessary for the physical facility and staff.
- 450. Management Systems in Disaster (3).** Integration of emergency functions, response structures, technology use, information management, and decision-making. The National Response Plan and the National Incident Management System will be emphasized.
- 451. Disaster Planning (3).** *Prerequisite: EM 301.* Engages students in elements of effective disaster planning and various types of emergency plans.
- 461. Critical Infrastructures (3).** Identifies what constitutes critical infrastructure, including cyber as well as physical infrastructure. Evaluation of strategies for promoting vulnerability assessments and risk reduction, and protection of critical infrastructures are examined. (EM 461 is cross-listed with CS 461, but only one course can be counted for credit.)
- 471. Emergency Management Capstone Course (3).** *Prerequisite: Senior standing in program and department approval. Intended to be taken in final semester.* Integrates prior coursework in an applied and experiential framework through case studies, exercises, applied research, and analytical activities.
- 475. Current Issues in Homeland Security (3).** The examination of current issues and concerns with Homeland Security, including upcoming National Special Security Events that mandate comprehensive security planning and response capabilities. Challenges of implementing and maintaining homeland security will be covered.
- 481. Research in Disasters and Emergency Management (3).** Overview of research principles and approaches to the study of disaster and how to understand and apply scholarly work from the field of disaster research.

- 483. Planning and Preparedness for Homeland Security (3).** Introduction to the homeland security planning process and related preparedness activities of assessing and enhancing preparedness for terrorism for organizations and communities. Topics include technical and organizational requirements, risk and vulnerability assessments, continuity of operations, communication and information management, capacity building needs, funding strategies, and recovery systems. Particular attention is given to multi-sector coordination requirements for incident management. For first responder agencies, healthcare systems, and public and private sector response systems.
- 496. Directed Studies in Emergency Management (3).** *Prerequisite: Permission of instructor and approval of department head.*
- 497. Internship in Emergency Management (3).** *Prerequisite: EM 301. Permission of instructor and internship coordinator.* Provides direct experience and application of principles, concepts and theories acquired in coursework in a supervised emergency management setting.

PUBLIC SAFETY TELECOMMUNICATIONS (PST) DESCRIPTION OF COURSES

- 110. Introduction to Public Safety Communications (3).** An introduction to telephone and radio communications skills, interpersonal communications, and basics of call handling, legal issues in public safety communications and technologies for the telecommunicator. This course will provide the information necessary to understand the job of a public safety telecommunicator and is the foundation to begin working in police, fire, EMS or combined service communications center.
- 115. Emergency Medical Dispatching (3).** Preparation needed to receive a call requesting assistance for emergency medical services (EMS) and allocate community resources in response to such request. Upon course completion, the individual should be qualified to provide pre-arrival medical instructions to the caller and post-dispatch information to the responding agencies.
- 220. Technologies in Public Safety Communications and 911 (3).** An overview of the rapidly advancing technology in public safety communications. Computer aided dispatch, radio and telephony advances, mapping and GPS technology, and information management technology keynote this course.
- 221. Role in Hostage Negotiations (3).** The principles required for critical thinking to deal with a hostage situation until a highly trained negotiator assumes control.
- 222. Handling of Hazardous Materials Event (3).** The knowledge necessary in handling events involving hazardous material(s). Upon course completion, the individual should have basic knowledge in communication management of special circumstances involving chemical, biological and radiological hazardous events.
- 226. Advanced Public Safety Communications (3).** An in-depth study of the operations of telecommunication centers.
- 311. Interpersonal Communications (3).** Introduction to the basic concepts of interpersonal communications and oral communications necessary for the public safety telecommunicator to interact with public safety personnel and citizens of the community. Techniques to overcoming barriers, achieving effective communications, handling difficult callers, listening effectively, and resolving conflicts will be addressed.
- 312. Legal Issues in Public Safety Communication (3).** An overview of legal issues impacting the public safety communication and telecommunication industry. The course will present a series of case studies which present a rational prospective of the liability exposure of the public safety telecommunicator. The course shall provide the legal principles and processes that, when adhered to, should guide toward minimizing liability exposure.
- 313. Introduction to Crisis Intervention (3).** The critical principles in support of crisis intervention and techniques for handling domestic violence, potential suicide, hostage, and civil unrest situations as a public safety communicator.
- 314. Introduction to Weapons of Mass Destruction (3).** The basic principles needed to respond to a Weapons of Mass Destruction (WMD) event. The course will present the role and responsibilities of the public safety telecommunicator in recognizing and dispatching assistance for aid while maintaining documentation of calls for assistance resulting from a WMD incident.
- 323. Human Resource Management in Public Safety Communications (3).** An overview of Human Resource Management issues, including principles of human resources, federal employee regulations, and Americans with Disabilities Act.
- 325. Management Principles in Public Safety Communications (3).** An overview of basic management principles, including organizational theory, operational models, supervision, evaluations, and steps for effective leadership.
- 327. Location Identification.** An in-depth examination of rapidly advancing technologies used today to determine the exact location of people contacting 9-1-1 telecommunicators for emergency assistance. Students will learn of the systems in use and how to apply them.
- 328. Technical Writing for Public Safety Communicators (3).** An introduction to the basic concepts for professional writing. Emphasis on writing skills necessary for the preparation of standard operating procedures, training documents, and related materials.

DEPARTMENT OF ENGLISH (EH)

215 STONE CENTER

Department Head: Robert Felgar

Professors: Davis, Di Biase, Felgar, Gates, Hug, Jones, Reed, Whitton

Associate Professors: Gray, Harding, Kostova, Porter

Instructors: Bailey, Bennett, Burns, Christopher, Cleveland, Dean, Foster,

Johnson, Maloney, Mecham, Moersch, Myer, Prickett, Richardson,

Rimpsey, Sasser, Sellers, Walker, K. Williams, L. Williams

The Bachelor of Arts in English requires 120 hours.

The major requires 36 hours of English courses, which must include the following:

Survey Courses (12 hours): EH 201, 202, 203, 204

Foundation Course (3 hours): EH 403 or 404

English Literature Courses (9 hours at 300/400 level): 3 hours of American literature and 6 hours of non-American literature

English Language Courses (6 hours): two of the following: EH 307, 321, 344, 415, 441

English Electives (6 hours): two courses chosen from any 300+ level course offered except EH 345, 348, 351, 352, and 360.

For the English major, a minimum of 12 of the 36 hours must be taken at the 300/400 level at JSU. The English major also requires 12 hours of a single foreign language (FL 101, 102, 201, 202). Students who plan careers in education should contact the Teacher Service Center in the College of Education, Ramona Wood Hall, Room 207, for information on certification and admission to education.

Minor in English: A minimum of 24 hours, which must include EH 101 or 103, 102 or 104, 141, 203, 204; one of the following: EH 201, 202, 219 or 220; and 6 hours of 300+ level electives. This minor is not available for students majoring in English. A minimum of 6 of the 24 hours must be taken at the 300/400 level at JSU. Electives may be chosen from any 300+ English courses offered except EH 345, 348, 351, 352, and 360.

Minor in Business and Technical Writing: A minimum of 24 hours, which must include EH 101 or 103, 102 or 104, 141, 201, 202, 322, 344, and 415. This minor is not available for students majoring in English.

Minor in Creative Writing: A minimum of 24 hours, which must include EH 101 or 103, 102 or 104, 141, 201, 202, 344, 351 or 352, and 415. This minor is not available for students majoring in English.

ENGLISH (EH) DESCRIPTION OF COURSES

NOTE: All entering students who have not successfully completed or been awarded credit for EH 101 are required to submit scores from the American College Test (ACT). Placement in entry-level English will be determined by the following:

Placement	ACT English Sub Test
LS 095	11 or below
LS 095 or EH 100 (following advisement)	12 - 13
EH 100	14 - 17
EH 101	18 or above
EH 103	25 or above

100. Basic English Skills (3). A study of basic English grammar and writing skills. Credit granted but not toward major. Not open to students who have completed EH 101 or 103. **Grades for EH 100: A, B, C, NC.**

101, 102. English Composition (3) (3). Two semesters. *Prerequisite to all other English courses except EH 141.* Spelling, grammar, punctuation, vocabulary, and the strategies of effective writing. Introduction to literature. In 102: a research paper. **Grades for EH 101 and 102: A, B, C, NC.** *EH 102 prerequisite: successful completion of EH 101 or 103.*

103, 104. Honors English Composition (3) (3). Two semesters. *Substitutes for EH 101, 102.* Advanced strategies of effective writing. Advanced introduction to literature. In 104: a research paper. Admission requirements: 103, see requirements above; 104, by recommendation of instructor. **Grades for EH 103 and 104: A, B, C, NC.** *EH 104 prerequisite: successful completion of EH 101 or EH 103 and recommendation of instructor.* (EH 103 offered Fall only; EH 104 offered Spring only.)

141. Oral Communication (3). Conversational English with emphasis on the process by which ideas are interchanged orally from one person to another or to a group. Consists of regular classroom presentations, formal speaking, and practice on individual problems with usage and articulation.

201, 202. American Literature (3) (3). Two semesters. *Prerequisite: EH 102 or 104.* The American tradition as presented in literature. 201: Franklin, Irving, Poe, Douglass, Emerson, Thoreau, Hawthorne, Melville, Whitman. 202: James, Twain and more recent American authors, such as Ann Beattie and Alice Walker.

203, 204. Survey of English Literature (3) (3). Two semesters. *Prerequisite: EH 102 or 104.* Representative English writers in the major periods of their nation's cultural development. 203: *Beowulf* to Neoclassical writers. 204: Romantics to modern writers.

- 219, 220. Honors Literature (3) (3).** Two semesters. *Prerequisites: EH 102 or 104 and permission of instructor.* A study of works of literature against the background of philosophy, history, and the arts. (Offered Fall and Spring only.)
- 231, 232. World Literature (3) (3).** Two semesters. *Prerequisite: EH 102 or 104.* The literature of Greece and Rome, the Medieval Period, the Renaissance, the Enlightenment, the Romantic Age, Realism and Symbolism, and our own times.
- 300. Independent Study (1).** Special project in English studies. Permission of department head. (Offered Fall and Spring only.)
- 303, 304. Survey of Black Literature (3) (3).** Two semesters. *Prerequisite: EH 102 or 104.* 303: A study of African-American writers from Colonial times through the Harlem Renaissance. 304: From the 1940s to the present.
- 305. Native American Literature (3).** *Prerequisite: EH 102 or 104.* A study of selected literature by Native Americans, including traditional oral genres (myths, folktales) and written genres (autobiography, fiction, poetry).
- 307. English Grammar (3).** *Prerequisite: EH 102 or 104 or permission of the English Department Head.* This course will explore all aspects of English grammar, including sentence structure, usage, and mechanics. Open to all students with appropriate prerequisites.
- 309. Film Noir, Classics, and Melodrama (3).** *Prerequisite: EH 102 or 104.* An exploration of three of the most important forms of visual culture in contemporary America. The course will concentrate on the social and cultural work performed by the films, and the focus will shift from one semester to the next from film noir to classics to melodrama. May be taken only once.
- 311. Romantic Poetry (3).** *Prerequisite: EH 102 or 104.* English poetry of the late eighteenth and early nineteenth centuries, featuring works of Blake, Dorothy and William Wordsworth, Byron, Mary and Percy Shelley, and Keats.
- 313. Twentieth-Century Poetry (3).** *Prerequisite: EH 102 or 104.* British and American poets of the 1900s. Hardy and Robinson through Robert Lowell and Adrienne Rich.
- 321. Advanced Grammar (3).** *Prerequisite: EH 102 or 104.* A thorough study of the parts of speech and syntax.
- 322. Technical Writing (3).** *Prerequisite: EH 102 or 104.* Practical writing, especially correspondence and reports, for students in business, scientific, and technical fields.
- 344. Advanced Composition (3).** *Prerequisite: EH 102 or 104.* Improving the skills and the knowledge of composition acquired in EH 101 and 102, deepening the student's understanding of grammar, diction, and usage, and introducing him/her, through active production, to the larger forms, particularly of an expository or argumentative nature.
- 345. Argumentation and Debate (3).** *Prerequisite: EH 141.* Basic principles and practice of argumentation and debate, with instruction in parliamentary procedure. No credit allowed toward English major or minor.
- 346. Advanced Oral Communication (3).** *Prerequisite: EH 141; by advisement.* Study and practice of techniques of public speech-making, argumentation and debate.
- 347. Theory of Speech (3).** *Prerequisite: EH 141; by advisement.* Study and practice in developing oral communication skills and auditory discrimination ability. Offered during fall semester.
- 348. Composition and Speech (3).** *Prerequisites: EH 102 or 104 and 141. Only for students majoring in EED, ECK, CLS, or ECE.* Emphasis on writing and on oral presentation skills. **Grades for EH 348: A, B, C, NC.** No credit allowed toward English major or minor.
- 349. The Literature of Young Adults (3).** *Prerequisite: EH 102 or 104.* A survey of the literature of young adults with particular attention to recent examples. Emphasis will be on the literary qualities of the reading. Restricted to English majors, minors, and Secondary Education/ELA majors.
- 351, 352. Creative Writing (3) (3).** *Prerequisites: EH 102 or 104 and permission of the instructor.* The first semester will concentrate on writing fiction, the second on poetry. No credit allowed toward the English major or minor.
- 360. Interpersonal Communication (3).** *Prerequisite: EH 141.* A course designed to give students study and practice in effective oral communication in different one-to-one relationships and situations. No credit allowed toward English major or minor.
- 370. The American Novel (3).** *Prerequisite: EH 102 or 104.* From its beginning to the present: Cooper, Hawthorne, Melville, and Twain through such moderns as Faulkner, Hemingway, Wolfe, Ellison, Bellow, and Morrison.
- 371. Contemporary Fiction (3).** *Prerequisite: EH 102 or 104.* The reading and analysis of recent novels and/or short stories selected by the instructor.
- 372. The Graphic Novel (3).** *Prerequisite: EH 102 or 104.* An overview of the development of the graphic novel, beginning with Maus and ending with contemporary works.
- 373. Twentieth-Century Drama (3).** *Prerequisite: EH 102 or 104.* The social, moral, and psychological interests of modern and contemporary continental, English, and American dramatists.
- 375. Southern Literature (3).** *Prerequisite: EH 102 or 104.* Selected works of poetry and prose by such major Southern writers as George Washington Cable, Alice Walker, William Faulkner, and Flannery O'Connor.
- 377. The Bible as Literature: Old Testament (3).** *Prerequisite: EH 102 or 104.* This survey course will serve as an introduction to the literary ideas, forms, and techniques found in English translations of the Old Testament. This

course fulfills the upper level, non-American literature requirements for English and Secondary English Language Arts majors.

378. **The Bible as Literature: New Testament (3).** *Prerequisite: EH 102 or 104.* This survey course will serve as an introduction to the literary ideas, forms, and techniques found in English translations of the New Testament. This course fulfills the upper level, non-American literature requirements for English and Secondary English Language Arts majors.
399. **Study Tour (3).** *Prerequisite: EH 102 or 104.* Topics, excursions and requirements determined by department. May be duplicated for credit; however, only three (3) credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum numbers. Advance deposit required.
401. **Chaucer (3).** *Prerequisite: EH 102 or 104.* The poet against the background of the Middle Ages.
402. **Special Studies in the English Renaissance (3).** *Prerequisite: EH 102 or 104.* Dedicated to selected writers, themes or genres.
- 403, 404. **Shakespeare (3) (3).** *Prerequisite: EH 102 or 104.* First semester: *Hamlet, Othello*, and selected histories and romantic comedies. Second semester: *King Lear, Macbeth*, and selected later comedies and tragedies.
405. **Shakespeare's England (3).** *Prerequisite: EH 102 or 104.* Program of study in Stratford-upon-Avon. Visits to places associated with Shakespeare and reading in social history of the period. (Offered infrequently.)
408. **Theory of Composition (3).** *Prerequisite: EH 102 or 104.* A study of current theory and practice in composition studies.
409. **The Art of the Film (3).** *Prerequisite: EH 102 or 104.* A consideration of the motion picture in its artistic, technical, and historical contexts. A number of films by major directors will be viewed.
410. **American Drama (3).** *Prerequisite: EH 102 or 104.* An examination of American drama both as theatre 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, Edward Albee, and others.
411. **Eighteenth-Century Literature (3).** *Prerequisite: EH 102 or 104.* A survey of eighteenth-century English writers, focusing on major satirists, such as Dryden, Pope, Swift, and Fielding; also including Johnson and his circle, some of the major novelists and dramatists; and ending with a survey of the "Pre-Romantics" (the "poets of sensibility").
412. **Victorian Poetry (3).** *Prerequisite: EH 102 or 104.* Tennyson, Elizabeth Barrett and Robert Browning, Arnold, Swinburne, and other poets of the Victorian Era.
413. **English Drama (3).** *Prerequisite: EH 102 or 104.* Medieval background of Elizabethan drama and the reading of representative plays of the Tudor and Stuart periods.
415. **Advanced Expository Writing (3).** *Prerequisite: EH 344.* Refining skills and knowledge acquired in EH 101 or 103, 102 or 104, 344, and requiring expository/argumentative essays representative of excellent rhetoric. (Offered Spring only.)
419. **Milton (3).** Poetry and prose of John Milton, with special attention to *Paradise Lost*.
420. **Women's Literature (3).** *Prerequisite: EH 102 or 104.* Six centuries of representative literature by women. Emphasis on recent British and American, including ethnic-American, authors. Discussion of women writers in relation to the traditional canon.
423. **Alabama Literature (3).** *Prerequisite: EH 102 or 104.* An introduction to Alabama writers from the frontier period to the present; fiction and nonfiction; short story, novel, poetry, essay.
431. **Non-Western Literature (3).** *Prerequisite: EH 102 or 104.* An introduction to literature of the non-Western world from ancient times to the twenty-first century. This course will examine different genres of literature originating in the following regions or cultures: Asia, the Middle East, Africa, South and Central America, as well as other cultures whose heritage is not primarily based on the Western tradition.
441. **The History of the English Language (3).** *Prerequisite: EH 102 or 104.* Study of the origins and development of the English language from Old English through Modern English, focusing on the historical, cultural, and linguistic forces affecting language change.
442. **Black Writers in America (3).** *Prerequisite: EH 102 or 104.* A study of major twentieth-century writers, including Wright, Ellison, Hughes, Baldwin, Toni Morrison, Alice Walker, and others.
452. **Literary Criticism (3).** *Prerequisite: EH 102 or 104.* Prominent themes and theories, various critical approaches, and outstanding examples of literary criticism from Plato to feminism and African-American literary theory.
453. **The English Novel (3).** *Prerequisite: EH 102 or 104.* A history of the British novel, with readings of, and reports on, novelists of the eighteenth, nineteenth, and twentieth centuries.
467. **Twentieth-Century English Fiction (3).** *Prerequisite: EH 102 or 104.* British fiction of the twentieth century, including short stories and novels by modern and post-modern authors.
484. **Current New York Theatre (3).** *Prerequisite: EH 102 or 104.* A study of the New York theatre available at the time the course is offered. In addition to attending four current Broadway productions, students visit Lincoln Center for

the Performing Arts and major art museums, such as the Metropolitan Museum of Art and the Museum of Modern Art.

- 491. Internship (3).** *Prerequisites: Completion of at least 12 hours of 300+ English classes and permission of the department head and sponsoring faculty member.* Provides direct experience and application of principles, concepts and theories acquired in coursework with an emphasis on writing in a professional organization while giving students the opportunity to gain work/career experience in service/learning or business/corporate settings. Pass/Fail grade only.

PLAN OF STUDY
BACHELOR OF ARTS
MAJOR: ENGLISH

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall	Spring
EH 101 or 1033	EH 102 or 1043
History sequence3	EH 1413
Natural Science sequence4	History sequence3
Social/Behavioral Science3	Natural Science sequence4
MS 110 or 112 or 2043	MS 108 or higher Math3
STU 101.....0	
16	16

SOPHOMORE YEAR

Fall	Spring
EH 2013	EH 2023
Fine Arts3	Social/Behavioral Science3
EH 2033	EH 2043
Foreign Language 1013	Foreign Language 1023
CS 2013	Elective1
15	13

JUNIOR YEAR

Fall	Spring
English Literature ¹3	English Language ²3
English Language ²3	Foreign Language 2023
Foreign Language 2013	EH 403/4043
Minor/ Electives6	Minor/ Electives 300+6
15	15

SENIOR YEAR

Fall	Spring
English Literature ¹3	English Literature ¹3
English Elective 300+3	English Elective 300+3
Minor/ Electives 300+9	Minor/ Electives 300+9
15	15

TOTAL HOURS: 120 HOURS; A MINIMUM OF 36 HOURS MUST BE 300+

¹English Literature Courses requirement: 9 hours at 300+ level, including one American and two non-American literature courses.

²English Language Courses requirement: 6 hours selected from the following: EH 307, 321, 344, 415, 441.

**DEPARTMENT OF HISTORY (HY) AND
FOREIGN LANGUAGES (FL)**

317 STONE CENTER

Department Head: Gordon E. Harvey

Professors: Cook, Gross, Harvey, Koerper, Lauderbaugh, Lemmons, Robinson, Wade

Associate Professors: Beezley, Koss, Levi, Pacheco, Prudlo

Assistant Professors: Martinez

Instructors: Burrows, Hudson, Stokesberry

History Major:

History majors may select from a wide variety of courses designed to broaden their horizons and widen their world view. The History major prepares students for careers in the public and private sector, from teaching to archival work, or to careers in business and commerce.

The 120-hour degree requires 33 hours of History courses. Students will take one survey sequence (HY 101-102 or HY 201-202) as part of the General Studies Curriculum. The remaining sequence will be taken as part of the requirements for the major.

History Major (33 hours):

27 hours must be at the 300/400 level.

Survey Courses (sequence not taken in General Studies Curriculum):

HY 101-102 or HY 201-202	6 hrs
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Courses numbered 300 or above:

U.S. History*	6 hrs
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European History*	6 hrs
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Non-U.S./Non-European History	6 hrs
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History Electives	9 hrs
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Total	33 hrs
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*Students must maintain a balance of early and modern classes in these sections.

Other Requirements:

Twelve (12) hours of foreign language courses are required. Majors should consult with advisors in selecting these courses. Students pursuing the Bachelor of Arts in history must have a minor as well as a major. A minor usually consists of eighteen to twenty-four semester hours in a single field of study (for example, English, Political Science, Geography).

History Minor:

Students wishing to minor in history must complete twenty-one semester hours in history. These courses must include HY 101-102 and HY 201-202 and nine hours numbered 300 or above.

Gender Studies Minor:

Students wishing to minor in gender studies must complete SY 368, Theories of Gender, and an additional 18 semester hours from the following list of gender studies courses: AN 345, AN 361, EH 420, HY 436, PSY 337, SY 310, SY 350, SY 367, SW 360, SW 365, and other relevant courses pending committee approval. Students must complete classes from at least three different programs. For Gender Studies minors, the respective departments have agreed to waive any normal prerequisites for the above-listed classes. For more information, please email the gender studies advisor at genderstudies@jsu.edu or call the History Department at 256-782-5632.

Students may also complete up to six hours of the required 18 hours in non-designated courses that have been approved by the gender studies committee on a by-contract basis. Students wishing to take non-designated courses for gender studies credit must submit to the gender studies committee a contract for each non-designated course signed by both the instructor of record and the student, detailing how the student will create a gendered curriculum within the established framework of the course and course assignments. Students wishing to submit a proposal for a by-contract course should contact the gender studies advisor for the required form and pertinent information.

Education Majors:

Students who plan careers in education should contact the Teacher Service Center in the College of Education, Ramona Wood Hall, Room 207, for information on certification and admission to Education.

**HISTORY (HY)
DESCRIPTION OF COURSES**

100. Current History (1). Students will do research on a current events topic which they select with the approval of the instructor. Consent of the department head is required.

- 101, 102. **Western Civilization (3) (3).** Two semesters. Civilization from earliest times to the present. Some training in the technique of historical research.
- 103, 104. **Honors Western Civilization (3) (3).** Two semesters. Advanced study in the history of western civilization from earliest time to the present. Includes training in the techniques of historical research, writing, and criticism.
- 201, 202. **American History (3) (3).** Two semesters. Beginning with the European background, this course deals with the establishment of the thirteen English colonies, separation from the mother country, growth and expansion, participation in world affairs.
- 203, 204. **Honors American History (3) (3).** Two semesters. Advanced study in American history, beginning with the European background and continuing up to the present. Includes training in the techniques of historical research, writing, and criticism.
301. **History of England to 1689 (3).** *Prerequisites: HY 101, 102.* The origins of the English people and nation, its early legal and constitutional development, the struggle between king and parliament, and the beginning of overseas expansion down to the Glorious Revolution. Recommended especially for pre-law students.
302. **History of Great Britain, 1689 to the Present (3).** *Prerequisites: HY 101, 102.* A continuation of HY 301. The consolidation to the constitutional evolution; the agricultural, social, industrial, and political revolutions of the eighteenth and nineteenth centuries; the merging of Great Britain into the Commonwealth of Nations.
304. **American Military History (3).** *Prerequisites: HY 201, 202.* The evolution of warfare and the military in America's past. (Offered every year.)
331. **The Far East in Modern Times (3).** *Prerequisites: HY 101, 102.* A survey of Far Eastern history with special emphasis upon China, Japan, and the impact of western influence in Modern Times.
332. **Russian History through the Revolutions of 1917 (3).** *Prerequisites: HY 101, 102.* The political, social, and intellectual developments of Russia from the early migrations and consolidation of Muscovy through the fall of the House of Romanov.
333. **Russian History from 1855 to the Present (3).** *Prerequisites: HY 101, 102.* Survey of the history of Russia focusing on the rise of radical activity that led to the Revolution of 1917, the creation, evolution and collapse of the Soviet Union and Russia after communism.
395. **Europe in the Middle Ages 476-1300 (3).** *Prerequisites: HY 101, 102.* Major political, intellectual, and cultural trends, with emphasis on ecclesiastical developments and the fathers of the church.
399. **Study Tour (3).** Topics, excursions, and requirements determined by department. May be duplicated for credit; however, only three (3) credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.
400. **Europe in the High Middle Ages: Renaissance and Reformation, 1300-1648 (3).** *Prerequisites: HY 101, 102.* European society as seen through its philosophy, religion, literature, and politics.
404. **The Age of the Cold War: Europe, 1945-Present (3).** *Prerequisites: HY 101, 102.* The Cold War and its impact on the internal reorganization of the European nations. (Offered every year.)
405. **Environmental History of the U.S. (3).** *No prerequisite.* A historical investigation of human interaction with the environment in the United States from the pre-colonial era to the present.
406. **Internship in Museum Studies (3).** *Prerequisite: permission of instructor.* Working with local historical museums under the supervision of faculty, students will be introduced to the problems and possibilities of museum curatorship.
408. **Ancient History (3).** *Prerequisites: HY 101, 102.* A survey of civilization in the Near East and Europe from the invention of writing to the fall of the Roman Empire.
409. **Modern France (3).** *Prerequisites: HY 101, 102.* A survey of the development of the French nation-state from Louis XIV to the present.
415. **The American Experience in War (1775-1898) (3).** *Prerequisites: HY 201, 202 or permission of instructor.* A military history of the American Revolution, War of 1812, Mexican War, Civil War, and Spanish American War. The course examines strategy, tactics, leadership, logistics, and civil military relations in America's first five conflicts.
433. **American Social and Cultural History to 1865 (3).** *Prerequisites: HY 201, 202.* American society through its literature, religion, philosophy, and arts. Emphasis upon immigration strains, European cultural transfer, and environmental adaptations which have formed the American character. Wide opportunities for reading offered in religion, philosophy, literature, and the arts.
434. **American Social and Cultural History Since 1865 (3).** *Prerequisite: HY 202 or permission of instructor.* This course will evaluate shifting immigration origins. Concentrated study will be given to the changing thought patterns which have resulted from Darwinism, the rise of Big Business, theories of the public interest, Pragmatism, and the emergence of the United States as a world power.
436. **History of American Women (3).** *Prerequisites: HY 201, 202.* A survey of the history of women from the colonial period to the present with emphasis upon social, economic, political, and educational developments.
437. **Black America (3).** *Prerequisites: HY 201, 202.* Blacks in the U.S. from colonial times to the present; events of the twentieth-century and the integral social relations between blacks and whites will be emphasized.

441. **The South Before 1860 (3).** *Prerequisites:* HY 201, 202. The colonization and the economic, political, social, and cultural development of the Old South and its part in building the nation.
442. **The South Since 1860 (3).** *Prerequisites:* HY 441 or permission of instructor. The issues which led to secession; the War Between the States; the economic, political, and social results; recent tendencies and developments.
443. **Introduction to Southern Culture (3).** *Prerequisites:* HY 201, 202. The study of the historic roots of regional culture that will integrate topics, such as the "Cult of the Lost Cause," religion, folk life, music, literature, and the transition from a rural/agricultural society to an urban/commercial/industrial one.
444. **History of Alabama (3).** *Prerequisites:* HY 201, 202. Alabama from the era of settlement to the present.
445. **North American Indians (3).** *Prerequisite:* HY 201. A survey of Native American history in what became the United States. Particular attention will be paid to Native-US government relations, the impact of the reservation and assimilation programs, and modern rights issues.
448. **The Westward Movement in American History (3).** *Prerequisites:* HY 201, 202. Significance of the frontier in American History; colonization of successive geographic areas; the West in relation to tariff, public lands, currency and banking; and crisis resulting from expansion.
451. **History of Early America to 1783 (3).** *Prerequisites:* HY 201, 202. European background to exploration; exploration and settlement; the Inter-Colonial Wars; the political, social, economic, and cultural developments within the colonies.
452. **The Age of Jefferson and Jackson, 1783 to 1850 (3).** *Prerequisites:* HY 201, 202. The development of the American Republic from the end of the American Revolution until the Compromise of 1850, with special emphasis on the influence that Jefferson and Jackson had on the evolution of democratic attitudes and institutions.
453. **Sectional Conflict, Civil War, and Reconstruction, 1850-1877 (3).** *Prerequisites:* HY 201, 202. The rise of opposition to slavery; the Decade of Crises; Civil War; political, social, economic, diplomatic, and military aspects of the conduct of the war. An examination of the various interpretations, regional and national, of the Reconstruction Period.
454. **The Beginning of Modern America, 1877-1914 (3).** *Prerequisites:* HY 201, 202. Description and evaluation of the shift of the United States from an agrarian to an industrial nation; the heritage of Civil War and Reconstruction; the rise of the Great Moguls; mass production and technological change; the rise of labor union movements and organized farm protests; the Spanish-American War; and American involvement in World War I.
455. **The 1920's and the Great Depression (3).** *Prerequisites:* HY 201, 202. A detailed study of American political, diplomatic, and cultural history from Presidents Woodrow Wilson through Franklin D. Roosevelt.
456. **Contemporary America, 1945-Present (3).** *Prerequisites:* HY 201, 202. A detailed study of American political, diplomatic, and cultural history since the end of the World War II. Part of this course will be devoted to the study of current events. (Offered every year.)
465. **The British Empire and Commonwealth (3).** *Prerequisites:* HY 101, 102. Growth and development of the British Empire, with emphasis on the factors leading to the Commonwealth of Nations.
468. **Constitutional History of England (3).** *Prerequisites:* HY 101, 102. Growth of common law, the court system, and the cabinet form of government from the earliest times to the present.
469. **Age of Churchill (3).** An examination of late Victorian-twentieth century British and World events through the career of Winston S. Churchill.
470. **American Diplomatic History to 1933 (3).** *Prerequisites:* HY 201, 202. History of United States foreign relations beginning with the American Revolutionary Period and continuing through the decade of the 1920's. A study of the historical changes in American foreign policy objectives which led to the increased size and importance of the United States.
471. **American Diplomatic History Since 1933 (3).** *Prerequisites:* HY 201, 202. A detailed study of United States' foreign relations beginning with Franklin D. Roosevelt and continuing to the present.
473. **Modern Middle East (3).** *Prerequisites:* HY 101, 102. This course centers around Israel's struggle for national independence and the tension this has produced in the Middle East.
480. **Colonial Latin America (3).** *Prerequisite:* HY 101 or 201 or permission of instructor. The interaction of Native American, European, and African people in the Spanish and Portuguese empires of the Americas, concluding with the wars for independence.
481. **Modern Latin America (3).** *Prerequisite:* HY 102 or 202 or permission of instructor. An 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.
483. **United States-Latin American Relations (3).** *Prerequisites:* HY 201, 202 or permission of instructor. A survey of the diplomatic, economic, and cultural relations between the United States and the Latin American Republics from 1810 to the present.
485. **History of Mexico (3).** *Prerequisites:* HY 201, 202 or permission of instructor. 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.

- 486. The Andean Nations (3).** *Prerequisites: HY 201, 202 or permission of instructor.* 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.
- 487. History of Brazil (3).** *Prerequisites: HY 201, 202 or permission of instructor.* 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 to present.

PLAN OF STUDY
BACHELOR OF ARTS
MAJOR: HISTORY

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall	Spring
EH 1013	EH 1023
HY 1013	HY 1023
PSC 1003	Social/Behavioral Science3
Natural Science sequence4	Natural Science sequence4
MS 108 or higher math3	MS 2043
STU 101.....0	
16	16

SOPHOMORE YEAR

Fall	Spring
Literature3	Literature3
HY 2013	HY 2023
Fine Arts elective3	CS 2013
EH 1413	Foreign language3
Foreign language3	Elective3
15	15

JUNIOR YEAR

Fall	Spring
HY 300+(by advisement)6	HY 300+ (by advisement)6
Foreign language3	Foreign language3
Minor/electives 300.....6	Minor/electives 300+6
15	15

SENIOR YEAR

Fall	Spring
HY 300+ (by advisement) 9	HY 300+(by advisement)6
Minor/electives 300+5	Minor/electives 300+8
14	14

TOTAL: 120 hours, at least 36 hours of which must be in courses numbered 300 or above.

DESCRIPTION OF FOREIGN LANGUAGES (FL)

The Department offers a Bachelor of Arts degree in Foreign Languages, with a concentration in either French or Spanish, as well as minors in the two languages, for students not seeking teaching certification (with a Bachelor of Science in Education degree). The Department also offers courses of study leading to teaching certification in the chosen language (see below).

In the 120-hour Bachelor of Arts degree in Foreign Languages, requirements for the major include the following: A minimum of 36 hours in the same language, which includes 101, 102, 201, 202, 303, 304, 310, 320, 321, 322, and at least

two 300/400 level courses. In addition, each student must complete a 12-hour core in the second language, consisting of 101, 102, 321, and 322. Students with native or near-native language ability must contact the Foreign Languages Head to determine their proper placement in language courses. Students with previous foreign language experience may be exempted from any or all of the lower-level courses based on their placement test performance; however, the total credit hour requirement (36 hours in the language of concentration) must be fulfilled with other courses in the chosen language. Additionally, courses 101, 102, 201, and 202 **must be taken in sequence** (unless the student is exempted by placement test or has instructor's permission).

Requirements for the minor: A minimum of 24 hours in the same language, which must include 101, 102, 201, 202, plus 4 additional 300/400 level courses. Again, students with prior language experience may test out of the lower-level courses, and unless exempted, must take 101, 102, 201, and 202 **in sequence**. The minor is not available to students seeking teaching certification, but students concentrating in one language may choose to minor in the other. A student may also choose a non-language minor.

For information concerning teaching certification, please consult the College of Education entries in this catalog or seek help from the College of Education Teacher Service Center, in room 207 Ramona Wood.

FRENCH (FH) DESCRIPTION OF COURSES

- 101. **Beginner's French I (3).** Beginning French grammar, pronunciation, conversation, culture, and supplementary work in the laboratory.
- 102. **Beginner's French II (3).** *Prerequisite: FH 101 or instructor's approval.* Continuation of Beginner's French I.
- 201. **Intermediate French I (3).** *Prerequisite: FH 102, or instructor's approval.* A review of French grammar and vocabulary, conversation, and discussion based on short literary selections. Writing short compositions, dialogs, etc. Laboratory required.
- 202. **Intermediate French II (3).** *Prerequisite: FH 201 or instructor's approval.* Continuation of Intermediate French I. Successful completion of 202 is prerequisite for **all courses** numbered 300 or higher, *except* 321 and 322.
- 303, 304. **Survey of Literature I and II (3) (3).** *Prerequisite: FH 202.* Two semesters. French literature from the Middle Ages to the Revolution (303) and from Romanticism to the present (304).
- 310. **Advanced Grammar and Composition (3).** *Prerequisite: FH 202.* A thorough study of syntax, structure, vocabulary, and structures that the advanced student should know. Writing expository, descriptive, argumentative, and critical compositions.
- 313. **Basic Business Communications (3).** *Prerequisite: FH 202.* Practice in written and spoken communications in all types of business situations for those specializing in areas where the language is French.
- 320. **French Conversation (3).** *Prerequisite: FH 202.* Intensive practice in conversation.
- 321. **French Civilization I (3).** *Offered in English, no prerequisites.* An extensive study of French culture in a historical context, covering prehistory through the French Revolution. Cultural aspects examined include art and architecture, music, literature, politics and government, and social trends.
- 322. **Francophone Culture (3).** *Offered in English, no prerequisites.* Introduction to and examination of the culture of various French-speaking countries and regions outside Europe.
- 325. **French Civilization II (3).** *Offered in English, no prerequisites.* An extensive study of French culture in a historical context, covering the Napoleonic Age through the present. Cultural aspects examined include art and architecture, music, literature, politics and government, and social trends.
- 416. **Seventeenth-Century French Literature (3).** *Prerequisite: FH 202.* Reading and analysis of representative plays by Corneille, Racine, and Moliere.
- 420. **Eighteenth-Century French Literature (3).** *Prerequisite: FH 202.* Literary, social and political trends of the Enlightenment as represented in the works of Montesquieu, Diderot, Voltaire, Rousseau and others.
- 430, 431. **Nineteenth-Century French Literature (3) (3).** *Prerequisite: FH 202.* Two semesters. Nineteenth-Century French Novel (430): reading and analysis of representative works by Stendhal, Hugo, Balzac, Flaubert, Maupassant, and Zola. Nineteenth-Century Poetry and Drama (431): reading and analysis of poetry and drama representing the major movements of the era, from Romanticism through Symbolism.
- 440, 441. **Twentieth-Century French Literature (3) (3).** *Prerequisite: FH 202.* Two semesters. Twentieth-Century Novel (440): reading and analysis of representative works by Gide, Proust, Mauriac, Sartre, Camus and Saint-Exupery. Twentieth-Century Poetry and Drama (441): reading and analysis of poetry and drama from the major movements, including Surrealism, Theater of the Absurd, Existentialism, etc.

SPANISH (SH) DESCRIPTION OF COURSES

- 101. **Beginner's Spanish I (3).** Beginning Spanish grammar, with emphasis on reading, writing, speaking, and understanding the language. Use of the language laboratory required.
- 102. **Beginner's Spanish II (3).** *Prerequisite: SH 101 or instructor's approval.* Continuation of Beginner's Spanish I.

201. **Intermediate Spanish I (3).** *Prerequisite: SH 102 or instructor's approval.* A review of Spanish grammar, conversation, and discussion based on short literary selections. Writing short compositions, dialogs, etc. Laboratory required.
202. **Intermediate Spanish II (3).** *Prerequisite: SH 201 or instructor's approval.* Continuation of Intermediate Spanish I. Successful completion of 202 is prerequisite for **all courses** numbered 300 or higher, *except* 321, 322, and 406.
- 303, 304. **Survey of Literature I and II (3) (3).** *Prerequisite: SH 202.* Representative Spanish writers in the major periods of their nation's cultural development. From the Middle Ages to the Golden Age (303), and from the 18th Century to the present (304).
310. **Advanced Grammar and Composition (3).** *Prerequisite: SH 202.* A thorough study of syntax, structure, vocabulary, and structures that the advanced student should know. Writing expository, descriptive, argumentative, and critical compositions.
313. **Basic Business Communications (3).** Practice in written and spoken communications in all types of business situations for those specializing in areas where the language is Spanish.
320. **Spanish Conversation (3).** *Prerequisite: SH 202.* Intensive practice in spoken Spanish using a variety of cultural activities (films, magazine articles, TV programs, etc.).
321. **Spanish Civilization (3).** *No prerequisites; offered in English.* Evolution of the culture, history, and geography of Spain.
322. **Latin American Civilization (3).** *No prerequisites; offered in English.* Evolution of the culture, history, and geography of Latin America.
405. **Golden Age Drama (3).** *Prerequisite: SH 202.* Reading and analysis of representative plays by Lope de Vega, Tirso de Molina, Alarcón, and Calderón de la Barca.
406. **Don Quixote (3).** *No prerequisite; offered in English.* Reading and analysis of the works of Cervantes, with special attention to *Don Quixote*. Research paper is required.
408. **The Generation of 1898 (3).** *Prerequisite: SH 202.* Reading of and reports on the major works of Azorín, Unamuno, Valle-Inclán, Antonio Machado, and Pío Baroja.
409. **Contemporary Spanish Literature (3).** *Prerequisite: SH 202.* Representative works of major writers from the Spanish Civil War to the present.
410. **Latin American Literature (3).** *Prerequisite: SH 202.* Representative Latin American writers in the major periods of their nation's cultural development from the Colonial period to the present.
411. **Nineteenth-Century Spanish Poetry (3).** *Prerequisite: SH 202.* Representative poets from the Neo-Classical period, through Romanticism, Realism, Modernism, to the present.
412. **Nineteenth-Century Spanish Drama (3).** *Prerequisite: SH 202.* Reading and analysis of outstanding plays with emphasis on those of Duque de Rivas, Zorrilla, Echegaray, García Gutiérrez, Hartzenbusch, and Tamayo y Baus.
413. **Nineteenth-Century Spanish Novel (3).** *Prerequisite: SH 202.* Major developments and trends in the novel of the 19th century, as reflected in the works of Galdós, Pardo Bazán, Palacio Valdés, Blasco Ibañez, Valera, and Pereda.

PLAN OF STUDY

CONCENTRATION: FRENCH OR SPANISH

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall	Spring
FL 101 (1st lang.)3	FL 102 (1st lang.)3
HY sequence3	HY sequence3
Natural Science sequence4	Natural Science sequence4
EH 1013	EH 1023
Social & Behavioral Science**3	EH 1413
STU 1010	
<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Fall	Spring
FL 201 (1st lang.)3	FL 202 (1st lang.)3
MS 1083	MS 110 or 2043
Social & Behavioral Science**3	EH Literature.....3
EH Literature3	Fine Arts Elective*3
FL 101 (2nd lang.).....3	FL 102 (2nd lang.)3
15	15

JUNIOR YEAR

Fall	Spring
FL 303, 304, 310 or 320 (1st lang.).....3	FL 303, 304, 310 or 320 (1st lang.)3
CS 2013	Minor/ Electives6
FL 321 or 322 (1st lang.)3	FL 321 or 322 (1st lang.)3
Minor / Electives6	FL Elective 300/400 level.....3
15	15

SENIOR YEAR

Fall	Spring
FL 303, 304, 310 or 320 (1st lang.).....3	FL 303, 304, 310, or 320 (1st lang.)3
FL 321 or 322 (2nd lang.)3	FL 321 or 322 (2nd lang.)3
FL Elective 300/400 Level..... 3	Minor/ Electives 6
Minor/ Electives6	Elective 1
15	13

TOTAL HOURS: 120 hours, at least 36 of which must be at the 300+ level.

*Select from ART 202, MU 233, DR 242

**Select from AN 224, GY 120, GY 220, PSY 201

DEPARTMENT OF LEARNING SKILLS

HOUSTON COLE LIBRARY BASEMENT

Department Head: Courtney Peppers-Owen
Instructors: Beckett, Gladen, Kirk, White

Learning Skills courses assist students in developing their basic academic skills and their reasoning and studying skills. General, elective academic credit is awarded for successful completion of Learning Skills courses, except LS 095 and 096, which carry institutional credit only.

LEARNING SKILLS (LS) DESCRIPTION OF COURSES

- 095. Reinforcing Communication Skills (3).** Individualized development of reading, writing, speaking, and thinking skills. Institutional credit only. **GRADES: A, B, C, NC.**
- 096. Writing Competency Skills (1).** A review of writing skills, especially in the areas of punctuation, syntax, and coherence in writing. Designed for students, especially international, who have experienced difficulty in passing the English Competency Exam. **GRADES: A, B, C, NC.**
- 103. Reinforcing Reading Skills (3).** Individualized development of reading and thinking skills.
- 104. Academic Success Skills (3).** Individualized freshman seminar providing supportive guidance in study skills, problem-solving, decision-making, and college adjustment. Open to freshmen only. Required for all conditionally admitted students. **GRADES: A, B, C, NC.**
- 106. Algebra Emporium (0).** Effective fall semester 2015, this zero-credit emporium is a mandatory laboratory for students who have received an "NC" in MS 100. The learning environment in the laboratory will be individualized and mastery-based to enable students to prepare for their first general education mathematics course. Prior to the beginning of the next semester or term after an "NC" in MS 100, students must register for LS 106 and remain in

the laboratory until they have mastered the objectives of MS 100, including, if necessary, subsequent semesters or terms until the objectives have been met.

130. **Critical Thinking Skills (3).** Individualized development of higher order thinking skills needed for academic study and career success.
- 301, 302, 303. **Academic Performance Management (1-3).** Realizing that fellow students can be effective teachers, the University offers academic credit to qualified students who serve as learning assistants in selected areas. Permission of instructor is required. Each section may be duplicated up to three times for a total of 3, 6, and 9 hours for each course respectively.

DEPARTMENT OF MATHEMATICAL, COMPUTING,
AND INFORMATION SCIENCES (MS) (CS)

Computer Science and Computer Information Systems Programs
Accredited by the Computing Accreditation Commission of ABET, Inc.

119 AYERS HALL

Department Head: TBA

Professors: Case, Dempsey, Dodd, Francia, J. Kim, Y. Kim,
Krishnaprasad, Leathrum, E. Smith, J. S. White

Associate Professors: Franklin, Garrett, K. Kim, Plotnick, Thornton, Trifas

Instructors: Alam, Chukwuemeka, Cochran, DaParma, Fathi, C. Jensen, J. Jensen,
McDivitt, D. Smith, Snellen, A. White

Three majors are available: 1) Mathematics with one of three concentrations—Theoretical, Applied, and General; 2) Computer Science with one of three concentrations—Information Assurance, Game Development, and General; and 3) Computer Information Systems with one of three concentrations—Information Assurance, Web Development, and General.

The **Mathematics (MS) major** consists of prescriptive common courses, prescriptive concentration courses, and elective courses. Concentrations available are: 1) **Theoretical**—emphasizes course work to prepare the student for graduate work in mathematics and a career in mathematics (39 hours); 2) **Applied**—emphasizes course work to prepare the student for graduate work in applied mathematics and a career supported by significant applied mathematics (39 hours); and 3) **General**—emphasizes course work designed to give the student sound fundamental skills and to integrate these fundamental skills into a broad knowledge of the content and methods of mathematics as a liberal art (39 hours).

Each concentration requires completion of the following **common courses** with a “C” or better: MS 125, 126, 227, 300, 344, 352, and 415.

Each concentration requires completion of the following **concentration courses** with a “C” or better: *Theoretical*: MS 416, 441, and any two of 442, 451, 480, or 484; *Applied*: MS 304, 309, 390, 416, and any one of 403, 404, 451, 480, 484, or 499; *General*: MS 302, 305 or 309, 323, 441, and 475.

Each concentration requires **elective courses** selected from the departmental list of approved mathematics electives as follows: *Theoretical*: at least one additional MS course numbered above 300, excluding 322; *General and Applied*: none required.

In addition to the common, concentration, and elective courses, each concentration requires the following **support courses**: CS 230 and 231, and the physics sequence PHS 211 and 212 with labs.

The **Mathematics minor** requires a minimum of 21 hours and consists of the calculus sequence and three mathematics courses numbered 300 or above.

The **Computer Science major** emphasizes the development of large software systems. It consists of prescriptive courses and elective courses. The **prescriptive courses** are CS 230, 231, 232, 234, 304, 310, 331, 333, 350, 450, 462, 488, and 491, and must be completed with a “C” or better. **Three concentrations** are available based on elective courses pursued that must be completed with a “C” or better: (1) **Information Assurance**: CS 307, 308, 425 or 461, and 470; (2) **Game Development**: CS 339, 439, and two of the following courses: 430, 432, 444; and (3) **General**: Four **elective courses** must be completed from the departmental list of approved computer science electives: two numbered 300 or above and two numbered 400 or above. Courses in the major may not be taken until all prerequisites are completed with a grade of “C” or better.

In addition to the major courses, **support courses** required are MS 125, 126, 227, 302, 352, one of the following natural science sequences: the physics sequence PHS 211 and 212 with the associated labs, the chemistry sequence CY 105 and 106 with the associated labs, or the biology sequence BY 101 and 102 with the associated labs and one additional science course with a lab component emphasizing the scientific method, either in physics, chemistry, or biology. Note that a minimum of twelve hours of natural science needs to be taken.

The **Computer Information Systems major** emphasizes the development and maintenance of business software systems. It consists of prescriptive courses and elective courses. The **prescriptive courses** are CS 230, 231, 232, 304, 309, 310, 311, 333, 350, 370, 450, 462, 488, and 491, and must be completed with a “C” or better. **Three concentrations** are available based on elective courses pursued that must be completed with a “C” or better: (1) **Information Assurance**: CS 307, 308, 412 or 425 or 461, and 470; (2) **Web Development**: CS 315, 325, 425, and 415; and (3) **General**: Four **elective courses** must be completed from the departmental list of approved computer information systems electives: two

numbered 300 or above and two numbered 400 or above. Courses in the major may not be taken until all prerequisites are completed with a grade of "C" or better.

In addition to the major courses, **support courses** required are ACC 200, EC 221, FIN 301, MGT 301, MKT 301, MS 120 or MS 125, and MS 302.

The **Computer Science minor** requires 21 hours consisting of CS 230, 231, 232, 310, 333, 350, and 488. The **Computer Information Systems minor** requires 21 hours consisting of CS 230, 231, 232, 310, 311, 370, and 488. The **Applied Information Processing minor** requires 21 hours consisting of CS 230 and six CS courses selected from CS 231, 300, 302, 305, 307, 309, 310, 315, 322, and 339. Courses in each of these minors must be completed with a "C" or better. Also, courses in these minors may not be taken until all prerequisites are completed with a grade of "C" or better.

To satisfy the general studies curriculum, general courses from the areas listed in the "Plan of Study" for each major and concentration must be completed. The "Plan of Study" is located after the "Description of Courses" for each major. All students, especially transfer students, must note the specific courses required in their "Plan of Study." For specific requirements in each major/minor see the department head or an advisor. Students may also use the Internet to obtain an outline of the specific courses required for their chosen major and concentration. The URL is <http://www.jsu.edu/mcis>.

MATHEMATICS (MS) DESCRIPTION OF COURSES

NOTE: Information regarding placement in an initial mathematics course may be found on the MCIS department web page. The placement criteria found on the web page are subject to change. Students will be placed based on the criteria current at the time of enrollment in their initial mathematics course.

- 100. Intermediate Algebra (3).** *Prerequisite: Satisfactory score on the departmental placement test.* Operations and properties of real numbers, rates and proportions, units and measurement, elementary plane geometry, linear equations and inequalities, exponents and polynomials, factoring algebraic expressions, graphing in the cartesian plane, systems of equations and inequalities, rational and radical expressions, and functions. (May not be repeated. Institutional credit only.) Grades: P, NC.
- 108. Exploring Mathematics (3).** *Prerequisite: Satisfactory score on the departmental placement test or satisfactory performance in MS 100 or LS 106.* This course is intended for liberal arts and other non-mathematics and non-science majors who plan to concentrate in fields which require no specialized mathematical knowledge. The purpose of the course is to cultivate an appreciation of the beauty and fascination of mathematics. Ideas discussed will be chosen for their intrinsic interest and accessibility to a wide audience. Applications will be chosen to demonstrate the role that mathematical thinking plays in the human quest for understanding.
- 110. Finite Mathematics (3).** *Prerequisite: Satisfactory score on the departmental placement test or satisfactory performance in MS 100 or LS 106.* Systems of equations and matrices, matrix applications, sets and counting, probability, probability distributions, and statistics.
- 111. Honors Finite Mathematics (3).** *Prerequisite: Satisfactory score on the departmental placement test or satisfactory performance in MS 100 or LS 106 or by advisement.* Advanced study of systems of equations and matrices, matrix applications, sets and counting, probability, probability distributions, and statistics with an emphasis on writing, projects, and technology.
- 112. Precalculus Algebra (3).** *Prerequisite: Satisfactory score on the departmental placement test or satisfactory performance in MS 100 or LS 106.* First and second degree equations and inequalities, linear and quadratic functions and graphs, polynomial and rational functions, exponential and logarithmic functions, conic sections, and systems of equations.
- 113. Precalculus Trigonometry (3).** *Prerequisite: MS 112 with a "C" or better or satisfaction of MCIS Department placement criteria (see the MCIS Department web site).* Trigonometric functions and inverses, applications, graphs, identities and equations, laws of sines and cosines, vectors and complex numbers.
- 115. Precalculus Algebra and Trigonometry (4).** *Prerequisite: MS 112 with a "C" or better or MS 113 with a "C" or better or satisfaction of MCIS Department placement criteria (see the MCIS Department web site).* The course is an algebra-trigonometry composite providing the student with a mathematical foundation required for calculus or other courses requiring a similar mathematical background.
- 117. Advanced Technical Mathematics I (2).** *Prerequisite: MS 112 with a "C" or better or satisfactory score on ACT/ SAT or departmental placement test.* Selected topics from: unit conversions, geometry, trigonometry, differential and integral calculus. Applications emphasize solving problems in technology. Open only to students in the Technology program, except by instructor permission. Student cannot receive credit for both this course and TEC 302. (Department credit not given for mathematics majors or minors.)
- 119. Advanced Technical Mathematics II (2)** *Prerequisite: MS 117 with a "C" or better.* Selected topics from: unit conversions, geometry, trigonometry, differential and integral calculus. Applications emphasize solving problems in technology. Open only to students in the Technology program, except by instructor permission. Student cannot receive credit for both this course and TEC 302. (Department credit not given for mathematics majors or minors.)
- 120. Calculus and Its Applications (3).** *Prerequisite: MS 112 with a "C" or better or satisfaction of MCIS Department placement criteria (see the MCIS Department web site).* Topics in differential and integral calculus with business

applications, functions of several variables, partial derivatives with business applications, Lagrange Multipliers, and multiple integration.

125. **Calculus I (4).** *Prerequisite:* MS 113 with a “C” or better or MS 115 with a “C” or better or satisfaction of MCIS Department placement criteria (see the MCIS Department web site). Introduction to analytic geometry, functions and limits, differentiation with applications, indeterminate forms, antiderivatives, definite integrals, numerical integration, calculus of transcendental functions.
126. **Calculus II (4).** *Prerequisite:* MS 125 with a “C” or better. Applications of integration, techniques of integration, improper integrals, infinite series, vectors in the plane and in 3-space.
133. **Mathematical Concepts I (3).** *Prerequisite:* MS 112. Preparation for implementation of standards set by the National Council of Teachers of Mathematics. Problem solving, set theory, number theory, real number operations, historical development and structure of number systems. (Not open to students with credit in MS 108.) (Enrollment by advisement only.) Two hours lecture and two hours lab.
134. **Mathematical Concepts II (3).** *Prerequisites:* MS 112 and 133. A thorough study of geometry, measurement, and statistics as recommended by the NCTM. Problem solving and application are emphasized. (Enrollment by advisement only.) Two hours lecture and two hours lab.
135. **Mathematical Concepts III (3).** *Prerequisites:* MS 112 and 133. Further study in NCTM recommended math content to include logic, probability, principles of counting, algebraic reasoning and representation. (Enrollment by advisement only.) Two hours lecture and two hours lab.
204. **Basic Statistics (3).** *Prerequisite:* Satisfactory score on the departmental placement test or satisfactory performance in MS 100 or LS 106. Numerical descriptive methods, axioms of probability, random variables, statistical inference, point and interval estimation of mean, and hypothesis testing.
227. **Calculus III (4).** *Prerequisite:* MS 126 with a “C” or better. Polar coordinates, parametric equations, vector-valued functions, multivariate functions, multiple integrals, vector analysis.
250. **Introduction to Linear Algebra (3).** *Prerequisite:* MS 113 or 115. Basic theory of linear equations, matrices, real vector spaces, bases, dimension, linear transformations, determinants, eigenvalues, eigenvectors, inner product spaces, and the diagonalization of symmetric matrices.
300. **Introduction to Advanced Mathematics (3).** *Prerequisite:* MS 126 with a “C” or better. Mathematical writing, including methods of proof, and fundamentals of sets and functions. May also include selected topics in algebra, analysis, number theory, or discrete mathematics. Students will be required to demonstrate mastery of selected precalculus material by independently completing a mastery-based tutorial and testing program with a satisfactory score.
302. **Applied Probability and Statistics (3).** *Prerequisite:* MS 120 with a “C” or better or MS 125 with a “C” or better. Provides a summary of introductory probability and statistics centered around data analysis examples and computer simulations. Includes discrete and continuous probability distributions, estimation, and hypothesis testing.
304. **Mathematical Statistics I (3).** *Prerequisite:* MS 126 with a “C” or better. Probability rules, discrete and continuous random variables and their probability distributions, expected value, variance, moment generating functions, multivariate probability distributions, and covariance.
305. **Number Theory (3).** *Prerequisite:* MS 126 with a “C” or better. An introduction to the principal topics of elementary number theory, including divisibility, linear Diophantine equations, distribution of primes, congruences, Fermat’s Theorem, and number theoretic functions.
309. **Combinatorics (3).** *Prerequisite:* MS 126 with a “C” or better. An introduction to counting techniques, such as permutations and combinations, the inclusion-exclusion principle, recurrence relations, and generating functions. May also include topics from graph theory, combinatorial design, and discrete probability.
322. **Selected Survey of Secondary School Mathematics (3).** *Prerequisites:* MS 112 and 113 or equivalents. For students pursuing certification in mathematics. Overview of secondary school mathematics for prospective and in-service teachers of mathematics. (Department credit not given for mathematics majors or minors.)
323. **College Geometry (3).** *Prerequisite:* MS 300. Euclidean geometry, including synthetic and analytic proofs, geometric constructions, properties of the triangle and circle; an introduction to non-Euclidean geometry.
331. **Peer Educator (1).** Academic credit given to advanced undergraduate students who provide tutorial assistance in the mathematics department. Students will work under the guidance of an experienced mathematics instructor. Permission of department head required. (Department credit not given for mathematics majors or minors. MS 331 and MS 332 may be repeated for credit up to a maximum combined total of six semester hours. Course graded Pass/Fail.)
332. **Peer Educator (2).** Academic credit given to advanced undergraduate students who provide tutorial assistance in the mathematics department. Students will work under the guidance of an experienced mathematics instructor. Permission of department head required. (Department credit not given for mathematics majors or minors. MS 331 and MS 332 may be repeated for credit up to a maximum combined total of six semester hours. Course graded Pass/Fail.)

- 344. Differential Equations (3).** *Prerequisite:* MS 126 with a “C” or better. The methods of solving differential equations of first or second order and higher order linear equations, including series solutions and selected applications.
- 352. Linear Algebra (3).** *Prerequisite:* MS 126 with a “C” or better. Matrices, linear systems, vector spaces with emphasis on algebraic structures.
- 390. Numerical Analysis (3).** *Prerequisites:* MS 352 and CS 231 with a “C” or better in both. Numerical analysis and computing with emphasis on methods adaptable to electronic computing machinery.
- 397. Directed Readings in Undergraduate Mathematics (1).** *Prerequisites:* Advanced standing and approval of instructor. This course may be repeated for credit up to a maximum of three hours.
- 399. Study Tour (3).** Topics, excursions, and requirements determined by department. May be duplicated for credit; however, only three (3) credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.
- 403. Vector Analysis (3).** *Prerequisite:* MS 227. The algebra and calculus of vectors; applications to geometry, electricity, harmonic functions, and potentials.
- 404. Mathematical Statistics II (3).** *Prerequisites:* MS 227 and 304. A continuation of MS 304. The Central Limit Theorem, order statistics, functions of random variables, properties of estimators, confidence intervals, hypothesis testing, and least squares regression models.
- 415. Advanced Calculus I (3).** *Prerequisites:* MS 227 and 300. Real number system, elementary point set theory, limits, theory of continuous functions, differentiable functions.
- 416. Advanced Calculus II (3).** *Prerequisite:* MS 415. Selected topics from advanced calculus, including differentiable functions, the Riemann integral, and sequences and series of functions.
- 423. A Survey of Geometries (3).** *Prerequisite:* MS 323. Selected topics from advanced Euclidean geometry, finite geometries, Non-Euclidean geometry, and other related topics.
- 441. Abstract Algebra I (3).** *Prerequisites:* MS 300 and 352. Algebraic structures, rings, and fields. The axiomatic approach.
- 442. Abstract Algebra II (3).** *Prerequisite:* MS 441. Introduction to group theory and related topics.
- 451. Functions of a Complex Variable (3).** *Prerequisites:* MS 227 and 300 and 415. Fundamental operations with complex numbers, differentiation and integration theorems, mappings, series, and residues.
- 475. Senior Seminar in Mathematics (3).** *Prerequisites or corequisites:* MS 415 or 441 or 451, and senior standing. A capstone course in advanced mathematics. Goals include examining deeply the fundamental ideas of mathematics and connections among various branches of mathematics, exploring the historical development of major concepts, and further developing the habits of mind that define mathematical approaches to problems.
- 480. Introductory Topology (3).** *Prerequisite:* MS 415. Basic topological concepts to include topological spaces, mapping, compactness, connectedness, and separation axioms.
- 484. Partial Differential Equations (3).** *Prerequisites:* MS 227 and 344. Standard methods of solution: separation of variables, Fourier Series, Laplace Transforms. Selected applications.
- 499. Undergraduate Research in Mathematics (3).** *Prerequisites:* MS 302 or 304 or 415 or 441, senior standing, and permission of instructor. A guided independent investigation of a topic outside the department’s normal course offerings, to culminate in a written paper and oral presentation to the faculty.

PLANS OF STUDY
BACHELOR OF SCIENCE
MAJOR: MATHEMATICS

NOTE: This schedule reflects the mathematics program beginning with Calculus I (MS 125). Freshman mathematics majors needing additional preparation before beginning calculus will be placed in the appropriate algebra or precalculus courses that provide this preparation. See advisor.

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall	Spring
MS 125, Calculus I4	MS 126, Calculus II4
CS 2303	CS 2313
EH 1013	EH 1023
HY 101/2013	HY 102/2023
Social/Behavioral Science 3	Social/Behavioral Science 3
STU 101.....0	
16	16

SOPHOMORE YEAR

Fall	Spring
MS 227, Calculus III4	MS 300, Advanced Math3
Literature3	MS 352, Linear Algebra3
PHS 211 & 2135	EH 1413
Fine Arts3	Literature3
	PHS 212 & 214 5
15	17

CONCENTRATION: THEORETICAL

JUNIOR YEAR

Fall	Spring
MS 344, Differential Equations3	MS 390, Numerical Analysis3
MS 403 or 404 or 451 or 480 or 484 or 499.....3	MS 415, Advanced Calculus I3
Minor/Electives10	Minor/Electives10
16	16

SENIOR YEAR

Fall	Spring
MS 304, Math Statistics I3	MS 309, Combinatorics3
MS 416, Advanced Calculus II3	Minor/Electives13
Minor/Electives 10	
16	16

TOTAL HOURS: 128

CONCENTRATION: APPLIED

JUNIOR YEAR

Fall	Spring
MS 344, Differential Equations3	MS 390, Numerical Analysis3
MS 403 or 404 or 451 or 480 or 484 or 499.....3	MS 415, Advanced Calculus I3
Minor/Electives 10	Minor/Electives 10
16	16

SENIOR YEAR

Fall	Spring
MS 304, Math Statistics I3	MS 309, Combinatorics3
MS 416, Advanced Calculus II3	Minor/Electives13
Minor/Electives10	
<hr/> 16	<hr/> 16
TOTAL HOURS: 128	

CONCENTRATION: GENERAL

JUNIOR YEAR

Fall	Spring
MS 323, College Geometry3	MS 305 or 309, Number Theory or Combinatorics3
MS 344, Differential Equations3	MS 441, Abstract Algebra I3
Minor/Electives10	Minor/Electives10
<hr/> 16	<hr/> 16

SENIOR YEAR

Fall	Spring
MS 302, Applied Prob and Stats3	MS 475, Senior Seminar in Math3
MS 415, Advanced Calculus I3	Minor/Electives13
Minor/Electives10	
<hr/> 16	<hr/> 16
TOTAL HOURS: 128	

COMPUTER SCIENCE (CS) DESCRIPTION OF COURSES

- 201. Introduction to Information Technology (3).** A brief exposure to theory and operations of information technology. Concepts presented include computer systems, hardware and software. Hands-on experience with selected productivity software packages. (Department credit not given for CS/CIS majors and/or minors.)
- 202. Honors Introduction to Information Technology (3).** *Prerequisite: ACT score of 24 or above or SAT of 520 or above and basic computer proficiency.* Advanced coverage of the theory and operations of information technology. Hands-on experience with selected popular software packages for Web and program design. (Department credit not given for CS/CIS majors or minors.)
- 230. Fundamentals of Computing (3).** Lecture/1 hour, Lab/2 hours. Sets, functions, propositional logic, number systems, data representation, binary arithmetic. Problem solving tools and techniques. Control structures. Data structures. Implementation using a high-level language. (Open to any major, but required for CS/CIS majors.)
- 231. Computer Programming I (3).** Lecture/2 hours, Lab/1 hour. *Prerequisites: CS 230 and overall GPA of 2.0 or higher and MS 112 or higher level mathematics (excluding MS 113) or satisfactory score on the departmental placement test.* Algorithmic problem solving. Modular programming. Strings, multi-dimensional arrays, records, dynamic linked lists. Documentation. Testing and debugging. Developing robust, user-friendly programs. Integral, scheduled laboratory.
- 232. Computer Programming II (3).** Lecture/2 hours, Lab/1 hour. *Prerequisite: CS 231.* Advanced problem solving. Efficiency and reuse. Abstract Data Types. Object-Oriented programming. Dynamic data structures: linked lists, queues, stacks. Recursive functions and procedures. Integral, scheduled laboratory.
- 234. Discrete Computational Structures (3).** *Prerequisites: CS 230 and MS 112 or higher.* Introduction to the concepts, terminology and manipulative skills associated with combinatorial structures and logic. Sets and functions, partially ordered sets, trees and graphs, algorithms and induction. Boolean algebra and introduction to symbolic logic.
- 300. Microcomputing (3).** *Prerequisite: CS 231.* Examination of micro-computers and their role in small to medium firms. Emphasis on applications, I/O operations and file handling in a laboratory environment.
- 302. Database Applications (3).** *Prerequisite: CS 231.* Introduction to database management systems using a current DBMS package; development of menu-driven database applications.

304. **Technical Writing for Computer Science (3).** *Prerequisites:* EH 102 and CS 230. Introduction to the writing tasks necessary of computer technology professionals. Covers skills necessary to prepare the technical reports, presentations, and documentation specific to the information technology environment.
305. **Spreadsheet Modeling (3).** *Prerequisites:* MS 112 or higher and CS 201. The use of spreadsheet software in modeling business problems. Extensive hands-on use of spreadsheets is required. (Department credit not given for CS/CIS majors or minors.)
307. **Management of Information Security and Forensics (3).** *Prerequisite:* CS 201. Study of information security and digital forensics using practical case studies. Emphasis is on developing security policies, security management and practices, utilization of digital forensic tools and techniques, risk management, security project management, and protection mechanisms. Major components of the course are hands-on projects on digital forensic investigation and security management case studies. (CS 307 is cross-listed with EM 325, but only one course can be counted for credit.)
308. **Embedded and Control Systems Security (3).** *Prerequisite:* CS 231. A study of embedded system architectures, security, and digital forensics; the role of hardware abstraction layers and middleware; real-time OS issues, such as concurrency, synchronization, and resource management; and the components and applications of industrial control systems. Laboratory activities include: ladder logic programming, embedded systems programming, and digital forensics for microcontrollers, mobile computing platforms, and industrial control systems.
309. **Introduction to E-Commerce (3).** *Prerequisite:* CS 201. This course focuses on a rich variety of models and strategies for connecting individuals, businesses, governments, and other organizations to each other. The topics covered in the course will span value and supply chain concepts, varying business relationship types, as well as obligations for protection of individual privacy and organizational security.
310. **Software Engineering I (3).** *Prerequisite:* CS 232. Introduction to the systems development life cycle, software development models, analysis and design techniques and tools, and validation and verification testing. Emphasis and experience will be on software engineering within a team environment.
311. **Management Information Systems (3).** *Prerequisite:* CS 309. Study of the systems concept and its relationship to information requirements for decision making and management in traditional and e-commerce environments.
312. **Software User Documentation (3).** *Prerequisites:* CS 310 and EH 102. Introduction to writing, analyzing, and evaluating effective software documentation. Exposure to proposal writing. Emphasis on writing software user manuals.
315. **Introduction to Web Design (3).** *Prerequisite:* CS 201. Step-by-step process of creating a well-designed website. Emphasizes web design techniques resulting in fast-loading and well-placed graphics, cohesive color and typography across platforms and browsers, clear navigational interface, and appropriate use of sound and video. Includes studio component where students analyze, design, and implement websites.
322. **Document Management (3).** *Prerequisite:* CS 304. Trains students to manage dynamic documents as well as apply document imaging technologies to achieve a paperless office environment. Students will learn about the technology of scanning, importing, transmitting, organizing, indexing, storing, protecting, locating, controlling, authenticating, retrieving, viewing, printing, and preserving documents for document imaging systems and digital libraries. This course has direct implications for project management and information assurance, among other topics that will be addressed.
325. **Web Scripting (3).** *Prerequisite:* CS 231 or 315. A practical hands-on introduction to web scripting for writing client-side scripts. Topics include fundamentals of scripting as a web programming language, scripting techniques and programming concepts, such as control structures, data structure, objects, event handling and functions. Multiple scripting languages will be used for the hands-on projects.
331. **Data Structures and Algorithms (3).** *Prerequisite:* CS 232. Design, analysis, and implementation of fundamental data structures: trees, heaps, and graphs. Basic algorithmic analysis and strategies. Basic computability and introduction to distributed algorithms.
333. **Computer Organization and Architecture (3).** *Prerequisite:* CS 232. Digital logic; instruction set architecture and computer organization; memory systems; functional organization; interfacing and communication; multiprocessing and alternative architectures.
339. **Game Design I (3).** *Prerequisites:* EH 102 and CS 201 or CS 230. Principles of game design. Covers analysis of genres; gameplay; conceptual design; story and character development; effects of art, lighting, and sound; interface design; level design; and the business of game development.
340. **Discovering Genomics and Bioinformatics (3).** *Prerequisite:* CS 230. The course provides a fundamental background in bioinformatics, both theoretical (bioinformatics algorithms) and practical (databases and web-based tools used to study problems in biology), to students in computer science or in biological sciences. Introduction to the biological problems addressed in this course will be provided, as well as a formal definition of the computational problems and a deep exploration of the algorithms for solving these problems. Practical use of topics introduced in class is demonstrated by laboratory exercises and homework problems. Students are grouped for class projects such that each group contains at least one life scientist and one computer scientist. (CS 340 is cross-listed with BY 340, but only one course may be taken for credit.)
350. **Fundamentals of Computer Operating Systems (3).** *Prerequisite:* CS 232. Overview of operating system concepts and structures. Study of process management, including synchronization techniques for cooperating processes,

main memory management, including virtual memory systems, system resource allocation and deadlocks, file system implementation, secondary storage management and input/output subsystems.

370. **COBOL for Information Systems (3).** Lecture/3 hours, Lab/1.5 hours. *Prerequisite:* CS 232. An introduction to solving business problems using structured programming techniques and methodology for both interactive and batch processing. Integral, scheduled laboratory.
399. **Study Tour (3).** Topics, excursions and requirements determined by department. May be duplicated for credit; however, only three (3) credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.
400. **Business Information Management (3).** *Prerequisite:* CS 201 or equivalent. Study of terminology and concepts of computer-based management information systems. Emphasis on applications for developing and managing World-Wide Web page information. (Department credit not given for CS/CIS majors and/or minors.)
412. **Disaster Response and Recovery (3).** *Prerequisite:* CS 201. How people, groups, organizations, communities, and governments manage disasters in the immediate aftermath and recover from their effects, including social, physical, business, and infrastructure problems as well as intra- and inter-organizational issues. (CS 412 is cross-listed with EM 411, but only one course can be counted for credit.)
415. **Dynamic Web Application (3).** *Prerequisite:* CS 488. The course will present dynamic web based application architecture, web scripting languages syntax, principles and techniques for developing database driven web applications using multiple web scripting languages. Students will gain experience in web scripting programming via the completion of a series of practical dynamic website projects.
420. **Algorithms Design/Analysis (3).** *Prerequisite:* CS 331. Survey of design and analysis of efficient algorithms. Introduces methods of describing algorithm time and space complexity and various problem-solving techniques.
425. **Web Application Development Using Web Services (3).** *Prerequisite:* CS 310. Introduction to technologies and tools for developing Web applications using Web Services, emphasizing organizational issues, challenges, and security concerns related to the effective deployment of those applications.
430. **Human-Computer Interaction (3).** *Prerequisite:* CS 232. Human-computer interface, human performance, diversity, and mental models, interaction devices, dialog styles, interface styles, error handling, documentation, and evaluation of software interface designs.
432. **Computer Graphics (3).** *Prerequisites:* CS 232 and MS 113 or equivalent. 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.
438. **Introduction to Business Intelligence and Data Mining (3).** *Prerequisite:* CS 488. Introduction to business intelligence and data mining methodologies and tools that enable users to analyze big data and develop insight for decision making. This course provides students thorough conceptual framework and practical experience in business intelligence and related topics. Topics covered include business intelligence, data mining methods, predictive analysis, information quality and data warehousing management. Hands-on assignments will apply the skills learned.
439. **Game Design II (3).** *Prerequisites:* CS 232 and CS 339. Principles of game development. Covers relevant game mathematics and data structures; selected artificial intelligence topics common to game development; programming and optimization techniques; game engines; and software engineering and project management for game development.
444. **Artificial Intelligence (3).** *Prerequisite:* CS 331 or 350 or permission of instructor. An introduction to the principles and methods used in artificial intelligence programs with a focus on autonomous agents. Offered every two years during fall semester.
450. **Computer Networking (3).** *Prerequisite:* CS 350. Study of computer interconnection and protocols with emphasis on network layers, error detection/correction, data compression, and topologies. Project approach utilized.
453. **Theory of Languages and Automata (3).** *Prerequisite:* CS 232. Formal representations for language syntax, semantics, and underlying language theory. Study of automata theory: finite automata, pushdown automata, and Turing machines.
461. **Critical Infrastructure (3).** *Prerequisite:* CS 201. Identifies what constitutes critical infrastructure, including cyber as well as physical infrastructure. Evaluation of strategies for promoting vulnerability assessments and risk reduction, and protection of critical infrastructures are examined. (CS 461 is cross-listed with EM 461, but only one course can be counted for credit.)
462. **Ethics and Legal Issues (3).** *Prerequisite:* CS 310 or permission of instructor. An overview of legal, ethical, global and professional issues in computing.
464. **Honors Ethics and Legal Issues (3).** *Prerequisite:* Completion of CS 310 (with "B" or above) or permission of the instructor. This course is an advanced (honors) course that provides an overview of the legal, ethical, global and professional issues in computing. This course will enable students to identify ethical issues in technology, perform ethical analyses using a variety of ethical theories, and to critically read professional literature in the field. Students will develop an awareness of ethical issues in technology, including, but not limited to, the internet (e.g.

freedom of expression on the internet), intellectual property rights, privacy, security, reliability, professional ethics, employment issues and technology, and plagiarism, and apply ethical theories to issues in those domains.

- 470. Computer Security (3).** *Prerequisite:* CS 350. Study of network security architectures and models, cryptography, authentication and authorization protocols, secure application and systems development, and federal regulations and compliance. Emphasis is on security professional certification.
- 488. Database Systems (3).** *Prerequisite:* CS 232. Concepts and terminology associated with data structure, file organization, access methods, packaged systems, database design and database systems.
- 491. Software Engineering II (3).** *Prerequisite:* CS 310. This course is a continuation of software engineering that emphasizes the entire software process, developing and using process and product metrics, and managing software projects. Both individual and team projects will develop student expertise.
- 499. Special Topics (1-6).** *Prerequisites:* Senior status and permission of department head. Exposes student to current or developing topics in computer science or computer information systems. Projects/topics are jointly selected by student and computer science instructor. This course can be taken multiple times of variable credit hours up to a total maximum of six credit hours.

PLANS OF STUDY

BACHELOR OF SCIENCE MAJORS: COMPUTER SCIENCE AND COMPUTER INFORMATION SYSTEMS

NOTE: This schedule reflects the computer science program beginning with Calculus I (MS 125) and the computer information systems program beginning with Calculus and Its Applications (MS 120) or Calculus I (MS 125). Freshman computer science majors needing additional preparation before beginning calculus will be placed in the appropriate algebra or precalculus courses that provide this preparation. See advisor.

COMPUTER SCIENCE

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall	Spring
CS 201, Information Technology3	CS 231, Computer Programming I.....3
CS 230, Fund. of Computing3	CS 234, Discrete Comp Structures.....3
EH 1013	EH 1023
Fine Arts3	EH 1413
Natural Science sequence 4-5	Natural Science sequence4-5
STU 101.....0	
<hr/>	<hr/>
16-17	16-17

SOPHOMORE YEAR

Fall	Spring
CS 232, Computer Programming II3	CS 331, Data Structures & Algorithms3
CS 304, Tech Writing for Comp Sc3	CS 333, Comp Org & Architecture3
MS 125, Calculus I4	MS 126, Calculus II4
HY 101/2013	HY 102/202.....3
CS Elective*3	CS 310, Software Engineering I3
<hr/>	<hr/>
16	16

JUNIOR YEAR

Fall	Spring
CS 488, Database Systems3	CS 350, Operating Systems.....3
MS 227, Calculus III4	CS 491, Software Engineering II3
CS Elective*3	Natural Science4
Literature3	Literature3
Social/Behavioral Science3	Social/Behavioral Science3
<hr/>	<hr/>
16	16

SENIOR YEAR

Fall	Spring
CS 450, Computer Networking3	CS 462, Ethics & Legal Issues3
CS Elective*3	CS Elective*3
MS 302, Applied Prob & Stats3	MS 352, Linear Algebra.....3
Minor/ Electives 6-8	Minor/ Electives6
<hr/> 15-17	<hr/> 15
TOTAL HOURS: 128	

*Refer to specific elective requirements for each concentration

COMPUTER INFORMATION SYSTEMS

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall	Spring
CS 201, Information Technology3	CS 231, Computer Programming I.....3
CS 230, Fund. of Computing3	CS 309, Intro to E-Commerce3
EH 1013	EH 1023
Fine Arts3	EH 1413
Natural Science sequence 4-5	Natural Science sequence4-5
STU 101.....0	
<hr/> 16-17	<hr/> 16-17

SOPHOMORE YEAR

Fall	Spring
CS 232, Computer Programming II 3	CS 311, MIS.....3
CS 304, Tech Writing for Comp Sc 3	CS 333, Comp Org & Architecture3
MS 120 or 125, Calc/ Apps or Calc I 3-4	EC 2213
ACC 200 3	HY 101/201.....3
CS Elective*3	CS 310, Software Engineering I 3
<hr/> 15-16	<hr/> 15

JUNIOR YEAR

Fall	Spring
CS 370, COBOL for Info Sys 3	CS 350, Operating Systems.....3
CS 488, Database Systems 3	CS 491, Software Engineering II3
CS Elective* 3	MGT 3013
Literature 3	HY 102/202.....3
Minor/ Electives 3	Literature3
Minor/ Electives3	
<hr/> 18	<hr/> 15

SENIOR YEAR

Fall	Spring
CS 450, Computer Networking 3	CS 462, Ethics & Legal Issues3
CS Elective* 3	CS Elective*3
MS 302, Applied Prob and Stats 3	FIN 3013
MKT 3013	PSY 2013
Minor/ Electives 3	Minor/ Electives3-6
<hr/> 15	<hr/> 15-18
TOTAL HOURS: 128	

DEPARTMENT OF MUSIC (MU)

201 MASON HALL

Accredited by the National Association of Schools of Music

Department Head: TBA

Professors: Baptiste, Collins, Corbin, Freeland, McCutchen, Steward

Associate Professors: Gordon, Logsdon, Wight

Assistant Professors: Benson, Lambert, Nevala, Probst, Woodward

Instructors: Brandon, Gillespie, Hosmer, Oft, Stovall, Stricklin

Mission

The mission of the Department is to develop musicians who are aware of the past, engaged in the present, embracing the future, and capable of leading and making musical contributions in whatever community or walk of life they choose. We offer professional training and promote scholarship among students in the discipline of music, sharing the expertise of our faculty in the training of music educators, scholars and performers. We recognize the interdependence among performance studies, music education and the theoretical and historical aspects of musical study, and we strive to instill excellence in each of these areas. We provide leadership for the region and serve the musical needs of the University, the general college student, campus cultural goals and the larger surrounding community through ensembles, solo performances and curricular offerings.

The Department of Music offers a Bachelor of Arts degree in Music with two concentrations. Concentration One in Music Education fulfills the requirements for the professional certificate to teach music in Alabama public schools on both the elementary and secondary levels. Concentration Two in General Music offers a program designed for the study of music within a liberal arts curriculum and requires a non-music minor.

Eligibility requirements: Students seeking to pursue a degree in Music must be determined as eligible for the program. Eligibility requirements include a formal audition in the student's primary performance medium (vocal or instrumental), theory and keyboard examinations and evaluation of the student's potential for success by a faculty committee. The procedures are in addition to University admission requirements. Music auditions and examinations may be arranged through the Music Office. A program assessment review will be accomplished at the end of the sophomore year to determine eligibility to advance to upper division level music studies.

Music Major

See "Plan of Study" for either Concentration One or Concentration Two located after the "Description of Courses" section. All students, but especially potential transfer students, should note the specific courses required for their selected "Plan of Study." Students may also obtain a Degree Worksheet showing the specific courses required for their chosen concentration at http://www.jsu.edu/music/student_resources.html.

Music Minor

Music 101, 102 (Music Theory)	6
Music 111, 112 (Aural Skills)	2
Primary Applied Music (3 consecutive semesters)	6
Music 236 (Honors Introduction to Music)	3
Music Elective 300+	4
Music 104 (Concerts and Recitals – 2 semesters)	0
Ensemble (3 semesters, 2 must be 300+)	3
Total	24

Music Electives for Non-music Majors

Introduction to Music (MU 233) and all ensembles are available to any student in the University and are designed to meet the needs of the general student who wishes to increase his or her appreciation and understanding of music.

APPLIED MUSIC DESCRIPTION OF COURSES

Courses in applied music include individual and class instruction in voice, piano, or band and orchestral instruments. The student may elect that area of individual instruction best adapted to his/her own individual needs. Class instruction is designed to cover all phases and activities of vocal and instrumental music to insure that the student receives a practical and broad musical experience.

Each student must take a placement examination for the first course attempted in any applied music area, and performance examinations are given at the end of each semester. **All Music majors must pass a piano proficiency**

examination (MU 299) before graduation. This test will be administered by the piano faculty and may be taken at any time during the student's undergraduate study.

All students majoring in Music will appear in recital performance. Specific degree requirements concerning recital performance may be obtained from the academic advisor. The academic advisor reserves the right to advise individual students to suit individual needs.

PERFORMANCE AND APPLIED MUSIC (MU) **DESCRIPTION OF COURSES**

Applied Music courses are available to all University enrolled students regardless of major or minor. Entrance to each of the courses, however, is determined by a placement test prior to the student's registration to determine ability to study at the undergraduate level and requires permission of the individual instructor. Students enrolled in Applied Music courses will meet public performance recital requirements and end of semester Music Jury performance examinations as specified by the instructor.

113 through 414. Secondary Applied Music (2 each semester). These courses are available so that students, upon the approval of the instructor and the department head, may broaden their performance skills in a secondary area in addition to the primary area. Students needing additional skill development on a particular instrument may enroll in Secondary Applied Music in preparation for taking courses at the Primary Applied level.

134 through 435. Primary Applied Music (2 each semester). *Prerequisite for MU 334 and above: MU 298.* For Music majors and minors, upon approval of instructor. Primary Applied Music includes mastery of etudes (studies), significant music literature and improvisation. Public performance is a required component of the course.

Individual Voice. Training the solo voice with emphasis on vocal technique, song interpretation, and repertoire. Materials are drawn from the rich heritage of song literature from Elizabethan song-writers and early Italian masters to 21st Century composers. Seminars in vocal repertoire and performance help students gain a fuller knowledge of and experience in the art of singing.

Individual Piano. The study of the piano involving scales (major, minor, and chromatic), arpeggios (major, minor, dominant sevenths, and diminished sevenths), transpositions, sight reading, and improvisations of melodies with accompaniment. Repertoire for piano, depending upon level, to be representative of all periods of musical history. Repertoire class is intended to increase the student's knowledge of piano literature and performance techniques.

Individual Organ. Before beginning the study of organ, the student should already have mastered fundamental piano technique. Basic repertoire includes works ranging from Baroque to contemporary composers.

Individual Flute. A graded selection of materials will be used to build technique and musicianship, including scales and arpeggio studies in various forms and etudes by Garibaldi, Andersen, Berginguier, Moyse, Bozza, and others. Repertoire of all periods will be studied, including works by Bach, Handel, Vivaldi, Chaminade, Hindemith, Poulenc, Debussy, Mozart, and others.

Individual Oboe. Studies by Frerling, Barret, Andraud, and others. Repertoire of all historical periods, including Handel Sonatas and Concerti Grossi Nos. 8, 9, and 10; Schumann Romances, Op. 94; Marcello Concerto in C minor; Hindemith Sonata; Nielsen Fantasy Pieces, Op. 2; and others. Excerpts from orchestral and band repertoire.

Individual Clarinet. A graded selection of materials will be used to build technique and musicianship, including scales and arpeggio studies in various forms and etudes by Rose, Thurston, Bozza, Polatschek, Gambaro, Capelle, and others. Repertoire of all periods will be studied, including works by Stamitz, Bozza, Marty, Von Weber, Mozart, Brahms, Hindemith, Debussy, and others.

Individual Saxophone. A graded selection of materials will be used to build technique and musicianship, including scales and arpeggio studies in various forms and studies by Teal, Mule, Samie, Berbiquier, Terschak, Soussman, Boehm, Ferling, and others. Repertoire of all periods will be studied.

Individual Bassoon. Studies by Weissenborn, Jancourt, Oubradous, and others. Repertoire from all periods, including Mozart Concerto; transcriptions of Bach Cello Suites; Weber Concerto in F, Op. 75; Hindemith Sonata; Saint-Saens Sonata, Op. 168; Dunhill Lyric Suite, Op. 196; and others. Excerpts from standard orchestral and band literature.

Individual Trumpet or Cornet. Discussion and mastery of basic tone production skills, such as breath support, embouchure formation and articulation. Development in these areas will use studies by Stamp, Arban, Clarke, Schlossberg and others. Musical and technical development will be accomplished by preparing lyrical and technical etudes of Arban, Brandt, Charlier and others. Preparation of solo and ensemble pieces as well as orchestral excerpts, including works by Hindemith, Haydn, Hummel, Bozza and others. Familiarity with and proficiency performing on various keyed trumpets, including C trumpet, D/Eb trumpet and piccolo trumpet. Performance for student peers in studio class.

Individual French Horn. Tone and technic study, such as Pares Daily Exercise, Pattag Selected Studies, Alphonse studies, etc. Solos representative of the repertoire, such as those by Mozart, Cohen, and Busser. Muting and transposition techniques.

Individual Euphonium. A comprehensive study of manuscript and published material dealing with breath support and control, embouchure formation and development, tone production, articulation, and intonation. Methods and studies will be used for the development of musicianship and technique. The study of alto, tenor, bass, and treble

clefs will be facilitated. Solo repertoire, both original and in transcription, of all periods will be studied. Excerpts from the standard band and orchestral literature will be studied as well.

Individual Trombone. A comprehensive study of manuscript and published material dealing with breath support and control, embouchure formation and development, tone production, articulation, and intonation. Methods and studies for the development of musicianship and technique, single and double-rotor skills, facility in reading tenor and alto clefs by Arban, Ostrander, Rochut, Blume, Blazhevich, Kopprasch, and others. Solo repertoire, both original and in transcription, of all periods, including works by J. S. Bach, Wagenseil, Saint-Saens, Hindemith, Martin, Bozza, and others. Individual and ensemble study of excerpts from the standard orchestral literature.

Individual Tuba. A comprehensive study of manuscript and published material dealing with breath support and control, embouchure formation and development, tone production, articulation, and intonation. Methods and studies will be used for the development of musicianship and technique. Solo repertoire, both original and in transcription, of all periods will be studied. Excerpts from the standard band orchestral literature will be studied as well.

Individual Percussion. A comprehensive study of manuscript and published material dealing with coordination and dexterity, sound quality, rhythmic accuracy, intonation, and grip formation. Methods and studies will be used for the development of musicianship and technique on snare, timpani, keyboard percussion, and drum set. Solo repertoire, chamber works, and excerpts from standard band orchestral repertoire will be studied.

300. Junior Recital (0). *Corequisite: MU 335.* Junior Recital is designed to be taken concurrently with the sixth semester of applied music during which the junior recital is presented.

400. Senior Recital (0). *Corequisite: MU 435.* Senior Recital is designed to be taken concurrently with the eighth semester of applied music during which the senior recital is presented.

MUSIC THEORY AND LITERATURE (MU) DESCRIPTION OF COURSES

Majors are required to complete six semesters of MU 104, Concerts and Recitals, and minors are required to complete two semesters of MU 104. Requirements for this course for transfer students are determined by the department head based upon a review of the transcript.

101. Music Theory (3). *Prerequisite: Ability to read music (base and treble clefs). Corequisite: MU 111.* Music fundamentals, including written skills, keys, scales, intervals, triads, and elementary harmonic movement.

102. Music Theory (3). *A continuation of MU 101, a prerequisite. Corequisite: MU 112.* Includes knowledge of figured bass, non-harmonic tones and dominant seventh chords.

104. Concerts and Recitals (0 each semester). Applied students must attend a specified number of department-sponsored or off-campus concerts, recitals, or approved performances each semester. This course may be repeated for a total of six (6) times.

111. Aural Skills (1). *Prerequisite: Ability to read music (base and treble clefs). Corequisite: MU 101.* The development of musicianship skills, particularly through singing and aural dictation.

112. Aural Skills (1). *Prerequisite: MU 111. Corequisite: MU 102.* The development of musicianship skills, particularly through singing and aural dictation.

201. Music Theory (3). *Prerequisite: MU 102. Corequisite: MU 211.* The study of voice leading, secondary dominants, modulation, and small forms.

202. Music Theory (3). *A continuation of MU 201, a prerequisite. Corequisite: MU 212.* The study of advanced chromatic harmony and large forms.

203. History of American Jazz (3). A comprehensive, formalized study of American Jazz Masterpieces from 1900 to the present.

211. Aural Skills (1). *Prerequisite: MU 112. Corequisite: MU 201.* The development of musicianship skills, particularly through singing and aural dictation.

212. Aural Skills (1). *Prerequisite: MU 211. Corequisite: MU 202.* The continued development of musicianship skills, particularly through singing and aural dictation.

233. Introduction to Music (3). Music fundamentals, literature, and appreciation. (Meets Area II General Studies Requirement for majors other than music. Music majors and minors must take MU 236.)

236. Honors Introduction to Music (3). *Prerequisites: Permission of instructor; ability to read musical notation. Substitutes for MU 233.* Advanced study in basic music literature from pre-Baroque to present stressing development of recognition of various styles, genres, and musical forms through individualized listening activities.

301. Music Theory (2). *Prerequisite: MU 202.* A study of the techniques and styles employed by art music composers since 1900. The course emphasizes learning how to listen to, appreciate, and interpret music written in the last hundred years.

302. Music Theory (2). *Prerequisite: MU 202.* The study of tonal counterpoint which pertains to the art of combining two or more independent musical lines to create a rhythmically and harmonically coherent musical fabric consistent with common practices of tonal composition.

332. **Pre-College Piano Literature (2).** *Prerequisite: MU 214 or 234 (Applied Piano).* Study of literature that forms the basis of piano instruction at the elementary through intermediate levels from all music style periods.
353. **Survey of Black Music (3).** An analytical examination of the works, careers, and performances of leading Afro-American musicians from the 18th century to the present.
399. **Study Tour (3).** Topics, excursions, and requirements determined by department. May be duplicated for credit; however, only three (3) credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.
404. **Music Theory: Composition (3).** An introduction to the art of composition through analysis and application of contemporary techniques.
405. **Theory and Composition of American Jazz (3).** *Prerequisite: MU 401.* A comprehensive formalized study of American Jazz Masterpieces from 1900 to the present. Ear training, harmonic analysis, formal and structural considerations, composition, arranging.
408. **Song Literature I (3).** *Prerequisite: Permission of instructor.* A survey course examining the major categories of solo vocal literature with a detailed study of selected songs.
409. **Opera Literature (3).** *Prerequisite: Permission of instructor.* A survey of the development of opera as a form with a detailed study of selected works.
410. **Song Literature II (3).** *Prerequisite: MU 408.* A survey course examining art song literature through the 21st century, with a detailed study of selected songs.
411. **Music History and Literature (3).** *Prerequisite: MU 236.* A survey course correlating the development of music literature with the historical development of world culture from the early beginning of music to the Baroque period.
412. **Music History and Literature (3).** *Prerequisite: MU 236.* A continuation of MU 411 from the Baroque period to the present.
428. **Piano Literature (3).** *Prerequisite: MU 236.* A survey of piano repertoire from the early Baroque era through the Contemporary period.
432. **Orchestral Music Literature (3).** *Prerequisite: MU 236.* A survey of stylistic development in the history of orchestral literature and detailed study of selected examples.
433. **Chamber Music Literature (3).** *Prerequisite: MU 236.* A survey of stylistic development in the history of instrumental chamber music and detailed study of selected examples.
438. **Percussion Literature (3).** A survey of percussion materials for the public school or college teacher. Literature for percussion and mallet instruments will be examined and discussed.
439. **Topics in Music Literature (3).** An in-depth survey of selected topics in music literature of various periods. Topics to be posted in the Department of Music. Course number may be duplicated for credit for four different topic selections (12 semester hours).
440. **Band Literature for Teachers (1).** A survey of current repertoire appropriate for various levels of developing instrumental groups.
441. **Choral Literature for Teachers (1).** A survey of choral repertoire from the Renaissance through the 21st Century, including music appropriate for elementary, middle school and high school choirs.

PROFESSIONAL PREPARATION (MU) DESCRIPTION OF COURSES

150. **Technology in Music (1).** An introduction to basic software programs used in music applications, including musical notation and aural skills, as well as those found in educational settings.
169. **Basic Piano Skills (1).** Designed for music majors with minimal keyboard ability who are unable, through placement exam, to enter Class Piano Skills I (MU 170).
- 170, 171. **Class Piano (1) (1).** *Prerequisite: Successful completion of MU 169 or the MU 169 Piano Diagnostic Exam.* A sequence of two courses leading to the acquisition of basic keyboard skills through laboratory instruction. Completion of the sequence prepares the student to successfully complete the MU 299 Piano Proficiency Exam.
- 180, 181. **Class Piano Repertoire I and II (1) (1).** *Prerequisite: MU 299 or permission of instructor.* Designed to broaden the knowledge of piano literature for pianists.
210. **Conducting (2).** *Prerequisites: MU 102 and 135 or equivalent.* Principles of interpretation and techniques of conducting are stressed through detailed study of selected compositions.
240. **Music Business Fundamentals (1).** An introduction to business fundamentals for music educators and commercial music practitioners.
244. **Introduction to Music Education (2).** An introduction to current issues in the teaching field of music, including a series of supervised in-school observational experiences. (To be taken after the first 32 hours.)

253. **Opera Workshop (1).** Operatic techniques for the singer/actor: the cultivation, through study and performance of free, expressive and significant movement on stage, and the development of musical, dramatic and muscular sensitivity as the basis of good operatic theater.
260. **Class Guitar (1).** A beginning class introducing basic skills on the guitar, such as tuning, reading easy music, development of strummed and finger style accompaniments to songs, as well as basic vocabulary of chord positions.
298. **Mid-degree Assessment Review (0).** An assessment of the student's progress and potential for successful completion of the degree requirements.
299. **Piano Proficiency (0).** An assessment tool to ensure acquisition of skills in the areas of keyboard technique, transposition, harmonization and repertoire. All music majors must pass a piano proficiency examination before graduation.
310. **Performance Anxiety (2).** Explores mental and physical aspects of performance anxiety and explores coping techniques and strategies. Musical performances in various settings are part of course requirements.
316. **Arranging and Orchestration (2).** *Prerequisite: MU 150 (Tech in Music).* A practical exploration of the techniques of writing and arranging music for instruments.
317. **Choral Arranging (2).** *Prerequisite: MU 150 (Tech in Music).* Arranging and writing choral music for a variety of choral combinations and sizes with emphasis on those found in school and community settings.
318. **Marching Band Techniques (2).** A study of various styles, including the formulation of drill and show writing for bands of varying sizes and abilities.
320. **Piano Pedagogy Fundamentals (2).** *Prerequisite: MU 214 or 234 (Applied Piano).* Fundamentals in forming a teaching philosophy, surveying methods for beginners, and organizing an independent studio (business and professional aspects).
350. **Advanced Technology (1).** An exploration of advanced music software programs, including digital audio workstations used in professional digital recording and MIDI realization studios, and an introduction to audio recording techniques and the fundamentals of building a personal home or professional studio.
360. **Class Voice I (1).** Introduces the art of singing, including breath control, pronunciation, use and care of the vocal instrument, and repertoire.
361. **Class Voice II (1).** *Prerequisite: MU 360.* Continues instruction in the art of singing, including breath control, pronunciation, use and care of the vocal instrument and repertoire.
363. **Class Voice Pedagogy (1).** A study of methods of vocal training with emphasis on vocal health and development for amateur and school-aged singers. *Course offered in even years only.*
365. **Diction I (1).** A study and practice of the phonetic sounds used in singing English and Italian languages. *Course offered in Fall semester only.*
366. **Diction II (1).** *Prerequisite: MU 365.* A study and practice of the phonetic sounds used in singing French and German languages. *Course offered in Spring semester only.*
367. **Diction III (1).** *Prerequisite: MU 366.* A performance application of phonetic articulation in English, French, Italian and German languages.
370. **Keyboard Harmony and Accompaniment (1).** *Prerequisite: MU 299.* A course designed to expand keyboard skills to include use of harmonic structures in accompaniments, sight reading, improvisation and simple repertoire.
371. **Keyboard Harmony and Accompaniment II (1).** *Prerequisite: MU 299.* A continuation of MU 370, designed to further keyboard skills and practical applications in accompaniments, sight reading, and repertoire.
378. **Instrumental Pedagogy Lab (1).** *Prerequisite: Permission of instructor.* Provides a laboratory experience for students to apply teaching concepts to practical situations. Normally taken in conjunction with either MU 380, 381 or 391.
379. **Vocal Pedagogy Lab (1).** *Prerequisite: Permission of instructor.* Provides a laboratory experience for students to apply teaching concepts to practical situations. Normally taken in conjunction with MU 363.
380. **Class Woodwinds (1).** Basic playing skills and teaching strategies of the flute, oboe, bassoon, clarinet and saxophone for the music educator.
381. **Class Brass (1).** Explores the rudiments of brass playing through practice on at least two different brass instruments. Basic concepts, such as breathing, embouchure and articulation, are discussed from a pedagogical standpoint, and students articulate their understanding of these concepts by conducting the class through exercise material.
384. **Beginning Band Foundations (1).** Instruction techniques for teaching beginning bands, including appropriate repertoire, methods, procedures, and scheduling.
385. **General Instrumental Techniques (1).** An introduction to basic performance skills in major instrumental families (brass, woodwind, percussion). Designed for music majors in vocal/choral concentration.
390. **Class Strings (1).** Gives a practical understanding of how to teach an orchestral string instrument, including the basic principles of tone production, bowing technique, and establishing good playing practices.

- 391. Class Percussion (1).** Introduces the fundamental techniques of percussion instruments for the music educator.
- 401. Improvisation and Arranging (1).** Involves the comprehension and application of improvisational skills for the beginning jazz instrumentalist. The class will consist of exploring the use of scales, modes, melodic patterns and common jazz motifs as well as the study of listening and performing.
- 402. Improvisation and Arranging (1).** *Prerequisite: MU 401.* A continuation of MU 401 focusing on the continued development of the improvisational skills.
- 403. Improvisation and Arranging (1).** *Prerequisite: MU 402.* A continuation of MU 402 focusing on the continued development of the improvisational skills.
- 415. Advanced Brass Methods and Literature (3).** *Prerequisite: Upper division undergraduate or graduate standing, with permission of instructor.* A survey of brass teaching materials for the public school or college teacher. Methods, etudes, and special studies of each instrument will be examined and discussed. Available records and corollary readings will supplement class discussion.
- 419. Advanced Woodwind Methods and Literature (3).** *Prerequisite: Upper division undergraduate or graduate standing, with permission of instructor.* A survey of woodwind teaching materials for the public school or college teacher. Methods, etudes, and special studies of each instrument will be examined and discussed. Available recordings and corollary readings will supplement class discussion.
- 421. Individual Study in Music Composition I (1).** Individual instruction in techniques of musical composition.
- 422. Individual Study in Music Composition II (1).** *Prerequisite: Satisfactory completion of MU 421 and permission of instructor.* Individual instruction in techniques of musical composition.
- 443. Instrumental Conducting (3).** *Prerequisite: MU 210.* Training and experience in the techniques of instrumental conducting through the study of representative instrumental literature. Discussion of score preparation and rehearsal procedures. *Course is offered in Spring semester only.*
- 444. Choral Conducting (3).** *Prerequisite: MU 210; Corequisite: MU 418.* Training and experience in the techniques of choral conducting through the study of representative choral literature. Discussion of score preparation and rehearsal procedures. *Course is offered in Fall semester only.*
- 453. Opera Workshop (1).** Operatic techniques for the singer/actor: the cultivation, through study and performance of free, expressive and significant movement on stage, and the development of musical, dramatic and muscular sensitivity as the basis of good operatic theater.
- 455. Practicum (2).** Directed and supervised experiences in observation and participation in music activities at various age levels. Allows student to observe and apply music teaching concepts to classroom situations.
- 471. Elementary Music Materials and Methods (3).** Methods, materials, and problems of teaching general music. Grades N-6. *Course is offered in Spring semester only.*
- 482. Secondary Instrumental Music Materials and Methods (3).** *Prerequisite: MU 471.* 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. *Course is offered in Fall semester only.*
- 483. Secondary Vocal Music Materials and Methods (3).** *Prerequisite: MU 471.* Professional preparation of teachers of vocal music, grades 7-12, with emphasis on theory, literature, teaching methods and organizational skills needed to teach in an effective public school choral program. *Course is offered in Fall semester only.*
- 487. Internship in Grades N-12 (9).** *Corequisite: MU 454.* Supervised classroom observation and student teaching in vocal and/or instrumental music in grades N-12. The education concentration candidate is required to take a minimum of 9 hours internship and should consult an academic advisor about scheduling.
- 489. Capstone in Music Education (3).** Designed to encourage the student to reflect upon the process of training in music education and to deepen his/her understanding of aspects of the profession of teaching in music.
- 499. Independent Study in Music (2).** *Permission of instructor required.* Provides the opportunity for an advanced student to pursue independent study and research on a specified topic in music under faculty direction. Course may be duplicated for credit for two (2) semesters for a total of four (4) semester hours.

MUSIC ENSEMBLES (MU) DESCRIPTION OF COURSES

Music majors must be enrolled in an ensemble approved by the major area every semester until minimum totals are reached; however, specific areas dictate or restrict which of these ensembles may be counted for credit toward the degree. Only one ensemble per semester will count toward the required minimum. Students should consult the music advisor for specific information regarding which ensembles count toward the minimum total. Students are urged to take no more than two ensembles per semester. No student may participate in any ensemble for which he or she is not duly and properly registered.

121, 321. Mallet Ensemble (1). Each number may be duplicated for credit for a total of four (4) semester hours.

132, 332. Orchestra (1). Each number may be duplicated for credit for a total of four (4) semester hours.

138, 338. **Gospel Choir (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

146, 346. **Chamber Music Ensemble (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

148, 348. **Wind Ensemble (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

162, 362. **Chamber Singers (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

168, 368. **Percussion Ensemble (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

182, 382. **Accompanying (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

188, 388. **Applied Ensemble (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

192, 392. **Marching Southerners (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

193, 393. **Chamber Winds (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

196, 396. **Chorus (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

198, 398. **Marching Ballerinas (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

207, 407. **Jazz Combo (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

218, 418. **A Cappella Choir (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

250, 450. **Symphonic Band (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

252, 452. **Lyric Theatre Workshop (1).** Each number may be duplicated for credit for a total of eight (8) semester hours.

279, 479. **Jazz Ensemble (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

295, 495. **Show Choir (1).** Each number may be duplicated for credit for a total of four (4) semester hours.

PLAN OF STUDY

BACHELOR OF ARTS MAJOR: MUSIC

CONCENTRATION: MUSIC EDUCATION – VOCAL

The approved educational program cycle is assigned based on the actual assessment date into the Teacher Education program. For information on Teacher Education program eligibility, please consult the Education Program Requirements section of this Catalog or the Teacher Service Center, Rm 207, Ramona Wood Hall.

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101, English Composition	3	EH 102, English Composition	3
MS 110 or 112	3	Social/Behavioral Science	3
MU 101, Music Theory	3	MU 102, Music Theory	3
MU 111, Aural Skills	1	MU 112, Aural Skills	1
MU 134, Primary Applied Music ¹	2	MU 135, Primary Applied Music ¹	2
MU 170 or 180, Class Piano Skills	1	MU 171 or 181, Class Piano Skills	1
Ensemble ²	1	Ensemble ²	1
Concerts and Recitals	0	Concerts and Recitals	0
MU 365, Diction I	1	MU 299, Piano Proficiency	0
STU 101	0	MU 366, Diction II	1
	<hr/> 15		<hr/> 15

MAY TERM

EH 141, Oral Communication 3

SOPHOMORE YEAR

Fall		Spring	
HY 101 or 201	3	HY 102 or 202	3
MU 201, Music Theory	3	MU 202, Music Theory	3
MU 211, Aural Skills	1	MU 212, Aural Skills	1
MU 234, Primary Applied Music ¹	2	MU 235, Primary Applied Music ¹	2
Concerts and Recitals	0	Concerts and Recitals	0
Ensemble ²	1	MU 150, Technology in Music	1
MU 236, Intro to Music Honors	3	Ensemble ²	1
ED 300, Intro to Teacher Ed	2	MU 244, Intro to Music Education	2
MU 370, Keyboard Harmony & Acc I.....	1	MU 371, Keyboard Harmony & Acc II.....	1
		MU 441, Choral Literature	1
		MU 298, Mid-degree Assessment.....	0
	<hr/> 16		<hr/> 15

MAY TERM

Literature 3

JUNIOR YEAR

Fall		Spring	
Natural Science	4	Natural Science	4
Music Theory Option ⁴	2	MU 471, Elem. Music Mat./Meth.	3
MU 210, Conducting	2	MU 412, Music History	3
MU 334, Primary Applied Music ¹	2	MU 335, Primary Applied Music ¹	2
Concerts and Recitals	0	MU 300, Junior Recital	0
Ensemble ²	1	Concerts and Recitals	0
SPE 300, Survey of Except. Child	3	MU 367, Diction III	1
MU 350, Adv Tech in Music.....	1	MU 385 General Inst Techniques	1
		MU 363, Class Voice Pedagogy	1
		Ensemble ²	1
	<hr/> 15		<hr/> 16

MAY TERM

Literature 3

SENIOR YEAR

Fall		Spring	
Social/Behavioral Science.....	3	MU 487, Internship	9
MU 483, Secondary Mat. & Meth.	3	MU 489, Capstone.....	3
MU 444, Choral Conducting	3		
MU 411, Music History	3		
MU 455, Practicum	2		
MU 379, Vocal Pedagogy Lab	1		
	<hr/> 15		<hr/> 12

TOTAL HOURS: 128

CONCENTRATION: MUSIC EDUCATION – INSTRUMENTAL

The approved educational program cycle is assigned based on the actual assessment date into the Teacher Education program. For information on Teacher Education program eligibility, please consult the Education Program Requirements section of this Catalog or the Teacher Service Center, Rm 207, Ramona Wood Hall.

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101, English Composition	3	EH 102, English Composition	3
MS 110 or 112	3	Social/Behavioral Science	3
MU 101, Music Theory	3	MU 102, Music Theory	3
MU 111, Aural Skills	1	MU 112, Aural Skills	1
MU 134, Primary Applied Music ¹	2	MU 135, Primary Applied Music ¹	2
MU 170 or 180, Class Piano Skills	1	MU 171 or 181, Class Piano Skills	1
Ensemble ²	1	Ensemble ²	1
Concerts and Recitals	0	Concerts and Recitals	0
Class Methods Applied ³	1	Class Methods Applied ³	1
STU 101	0	MU 299, Piano Proficiency	0
	15		15

MAY TERM

EH 141, Oral Communication 3

SOPHOMORE YEAR

Fall		Spring	
HY 101 or 201	3	HY 102 or 202	3
MU 201, Music Theory	3	MU 202, Music Theory	3
MU 211, Aural Skills	1	MU 212, Aural Skills	1
MU 234, Primary Applied Music ¹	2	MU 235, Primary Applied Music ¹	2
Concerts and Recitals	0	Concerts and Recitals	0
Ensemble ²	1	MU 150, Technology in Music	1
MU 236, Intro to Music Honors	3	Class Methods Applied ⁵	1
Class Methods Applied ⁵	1	Ensemble ²	1
ED 300, Intro to Teacher Ed	2	MU 244, Intro to Music Education	2
	16	MU 298, Mid-degree Assessment.....	0
			14

MAY TERM

Literature 3

JUNIOR YEAR

Fall		Spring	
Natural Science	4	Natural Science	4
Music Theory Option ⁴	2	MU 471, Elem. Music Mat./Meth.	3
MU 210, Conducting	2	MU 412, Music History	3
MU 334, Primary Applied Music ¹	2	MU 335, Primary Applied Music ¹	2
Concerts and Recitals	0	MU 300, Junior Recital	0
Ensemble ²	1	Concerts and Recitals	0
SPE 300, Survey of Except. Child	3	Class Methods Applied ⁵	1
MU 350, Adv Tech in Music.....	1	Ensemble ²	1
MU 440, Band Literature.....	1	MU 384, Beginning Band Foundations.....	1
	16		15

MAY TERM

Literature 3

SENIOR YEAR

Fall	Spring
Social/Behavioral Science.....3	MU 487, Internship9
MU 411, Music History3	MU 489, Capstone.....3
Class Methods Applied ⁵1	
MU 482, Secondary Mat & Methods3	
MU 443, Band Conducting3	
MU 455, Practicum2	
MU 378, Instrumental Pedagogy Lab1	
<hr/> 16	<hr/> 12

TOTAL HOURS: 128

CONCENTRATION: GENERAL MUSIC

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall	Spring
EH 101, English Composition3	EH 102, English Composition3
MU 101, Music Theory3	MU 102, Music Theory3
MU 111, Aural Skills1	MU 112, Aural Skills1
MU 134, Primary Applied Music ¹2	MU 135, Primary Applied Music ¹2
Concerts and Recitals0	Concerts and Recitals0
Ensemble ³1	Ensemble ³1
STU 1010	Math Elective.....3
MS 110 or 112.....3	MU 171 or 181, Class Piano Skills1
MU 170 or 180, Class Piano Skills.....1	MU 299, Piano Proficiency0
<hr/> 14	<hr/> 14

MAY TERM

EH 141, Oral Communication 3

SOPHOMORE YEAR

Fall	Spring
Natural Science.....4	Natural Science4
Foreign Language3	Foreign Language3
MU 201, Music Theory3	MU 202, Music Theory3
MU 211, Aural Skills1	MU 212, Aural Skills1
MU 234, Primary Applied Music ¹2	MU 235, Primary Applied Music ¹2
Concerts and Recitals0	Concerts and Recitals0
Elective ⁶3	Ensemble ³1
Ensemble ³1	MU 298, Mid-degree Assessment.....0
<hr/> 17	<hr/> 14

MAY TERM

Literature 3

JUNIOR YEAR

Fall		Spring	
HY 101 or 201.....	3	HY 102 or 202	3
MU 301, Music Theory	2	MU 412, Music History	3
MU 236, Intro to Music Honors	3	MU 302, Music Theory	2
Ensemble ³	1	MU 335, Primary Applied Music ¹	2
MU 210, Conducting	2	MU 300, Junior Recital	0
MU 334, Primary Applied Music ¹	2	Elective ⁶	6
Concerts and Recitals	0	Ensemble ³	1
Elective ⁶	3	Concerts and Recitals	0
	16		17

MAY TERM

Literature	3
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SENIOR YEAR

Fall		Spring	
Social/Behavioral Science.....	3	Social/Behavioral Science	3
MU 411, Music History	3	Elective ⁶	9
Elective ⁶	4	Ensemble ³	1
CS 201, Computer Science	3		
Ensemble ³	1		
	14		13

TOTAL HOURS: 128

¹Individual applied music must be studied each semester for a total of six semesters. In the sixth and final semester of study, each student will present a public recital. To aid the student in preparing for this final project, the Department of Music offers a special seminar under the guidance of the applied music instructor. Normally, all six semesters should be taken in the same applied instrument (voice, piano, clarinet, etc.). In exceptional cases a change from one instrument to another may be permitted in the major area with the approval of the instructors involved and the department head, but in such cases the student will be expected to declare clearly what subject his/her major instrument is and to pass the junior seminar work in that instrument.

²Every Music Education student is encouraged to participate in as many ensembles as possible, each for one credit hour, since practical experience of this kind will prove invaluable to the student in future teaching careers. Each student is required to participate in a large ensemble representing his/her certification area (instrumental or vocal/choral). Students must participate in 6 required ensembles: 4 large and 2 small. Large Vocal Ensembles are: MU 418 & 396. Large Instrumental Ensembles are (choose from at least two of the following): MU 392, 348, 393, 450, 479 & 332 (strings only). Small Vocal Ensembles are: MU 495, 452 & 362. Small Instrumental Ensembles are: MU 407, 346, 321, 382 (pianists only), & 368. Pianists are encouraged to choose large ensembles from both vocal and instrumental categories. Deviations in the selection of required ensembles must receive the written approval of the department head.

³Every General Music student is encouraged to participate in as many ensembles as possible, each for one credit hour, since practical experience of this kind will prove invaluable to the student in advancing one's ability on the primary instrument and overall musical development. Students must participate in 8 semesters of ensembles: 5 large and 3 small. Large Vocal Ensembles are: MU 418 & 396. Large Instrumental Ensembles are (choose from at least two of the following): MU 392, 348, 393, 450, 479 & 332 (strings only). Small Vocal Ensembles are: MU 495, 452 & 362. Small Instrumental Ensembles are: MU 407, 346, 321, 382 (pianists only), & 368. Pianists are encouraged to choose large ensembles from both vocal and instrumental categories. Deviations in the selection of required ensembles must receive the written approval of the department head.

⁴Students may choose from MU 301, 302, 316, 317, 318 or PHS 350 to fulfill this requirement.

⁵For Instrumental Music Education: MU 360, 380, 381, 390, 391. Choose one additional course from: MU 260, 370, or 363.

⁶A non-music minor must be included in the 25 hours listed as electives.

Specific requirements, qualifications and procedures for assessment into the Teacher Education program leading to Alabama teacher licensure may be found under the Education Program Requirements section of the College of Education and Professional Studies in this Catalog.

DEPARTMENT OF PHYSICAL AND EARTH SCIENCES

206 MARTIN HALL

Department Head: TBA

**Professors: Gregg, Gryko, Hill, Holstein,
Nichols, Sewastynowicz, Steffy, Zettili**

**Associate Professors: Helms, Morgan, Mwebi, Weinkauff
Assistant Professors: Perygin, Tsikalas**

Within this department listing you will find information on the following programs: Anthropology (AN), Chemistry (CY), Environmental Science (ESC), Geography (GY), Geology (GL), Marine Science, and Physics (PHS).

General studies courses for Chemistry and Geography majors in the Physical and Earth Sciences Department are included in the Plan of Study for each major located after the Description of Courses for each major. All students, but

especially potential transfer students, should note the specific courses required for their selected Plan of Study. For additional information, consult our home page at <http://www.jsu.edu/pes/>.

ANTHROPOLOGY (AN)

Anthropology is a broad-based field of study. Its subject matter ranges from the analysis of primitive and modern cultures throughout the world (cultural anthropology) to the examination of ancient peoples and civilizations (archaeology) to the study of human biological evolution derived from the fossil record of Africa, Europe, and Asia (physical anthropology). Students may study anthropology to develop expertise leading to careers in archaeology or applied cultural research or to supplement a liberal arts education.

ANTHROPOLOGY MINOR. A minor in Anthropology requires a minimum of 18 semester hours, which must include AN 224, 225, 345, 350, and 6 hours of anthropology electives.

DESCRIPTION OF COURSES

- 224. Introduction to Anthropology (3).** Surveys the field of anthropology, including cultural anthropology, archaeology, and physical anthropology.
- 225. Introduction to Archaeology (3).** A study of the history, methodology, problems, and theory of archaeology, including an outline of prehistoric cultural development in both the New and Old Worlds.
- 299. Archaeology Field Techniques (3).** Introduction to techniques and theory of conducting archaeological excavation. Four days per week field experience.
- 344. Principles of Archaeology (3).** An examination of the ways in which the archaeologist recovers archaeological data. Methods, theory, actual field work, and field trips to archaeological sites will be included in this course.
- 345. Cultural Anthropology (3).** A global survey of the dynamics of cultural systems, including subsistence, kinship, marriage, sex and gender, politics, and religion. Covers both modern and primitive societies.
- 347. Current Social Issues (3).** An examination of how anthropology offers insight into national and international problems and events. Topics include environmental issues, poverty, crime, warfare, gender, and racism.
- 348. North American Indians (3).** Uses archaeological and ethnographic data to describe the diversity and ingenuity of traditional North American Indian societies and their contributions to contemporary American culture.
- 349. Middle American Indians (3).** Surveys the growth and development of Indian cultures in Mexico and Central America from prehistoric times to the present.
- 350. Physical Anthropology (3).** An examination of human origins covering evolutionary theory, the fossil record of human ancestry, primatology, genetics, and other pertinent topics.
- 361. Anthropology of Sexual Behavior (3).** A cross-cultural survey of sexual behavior, gender roles, and male-female relations among the world's societies, including biological and cultural influences on sexual phenomena.
- 399. Anthropology Study Tour (3).** *Prerequisite:* AN 224 or permission of instructor. Topics, excursions, and requirements determined by department. May be duplicated for credit; however, only 3 credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.
- 410. Archaeological Field School (3).** This course is designed to provide the student field experience in methodology and techniques of archaeological data recovery. May be duplicated for credit for a total of 6 semester hours.
- 412. Lab Techniques in Archaeology (3).** Instruction and experience in the techniques of artifact preparation, analysis, cataloging, and storage.
- 490. Advanced Seminar in Anthropology (3).** *Prerequisite:* AN 224. An examination of current issues in anthropology. The content of this course will vary each semester. Students seeking admission must have advanced standing and secure approval of instructor. May be duplicated for credit for a total of 9 semester hours.
- 493. Independent Study (1).** An opportunity for students with advanced standing to engage in special research projects in anthropology. Approval of instructor and department head required. Pass/fail grade only. May be duplicated for credit for a total of 3 semester hours.

CHEMISTRY (CY)

A Bachelor of Science in Chemistry prepares students for a diversity of careers. All program majors complete a general education and chemistry core curricula. Students seeking careers as chemists or admission to graduate programs in chemistry follow the Professional plan of study below. This plan adheres to certification guidelines of the American Chemical Society (ACS). Students pursuing the Professional plan complete the program's core curricula and then select one of the following concentrations to complete the major: Professional Chemistry, Biochemistry, or Environmental Chemistry.

Students seeking careers that require a basic understanding of chemistry follow the General Chemistry plan of study below. Such careers include medicine, dentistry, veterinary science, pharmacy, education, forensics, patent or environmental law, technical writing, art conservation, sales, marketing or management in a chemical-related industry. The plan below consists of the program's core curricula and 18 semester hours of 300/400 level courses, including a year of mathematics and a year of physics by advisement.

The Bachelor of Science in Chemistry requires a minimum of 128 semester hours, comprised of the following sub-requirements: 41 semester hours of state-articulated general studies courses; 23 hours of support courses; 23-24 semester hours in chemistry at the 300/400 level, including 12 semester hours minimum at the 300/400 level at Jacksonville State University; a minor, including 6 semester hours minimum at the 300/400 level at Jacksonville State University, or a second major. A minimum of thirty-six (36) semester hours of 300/400 level courses, which include those required in the major or minor, are required to complete the program. Any hours remaining to meet the 128 semester hour program or the 36 semester hours of 300/400 level requirements will be classified as electives. Students must earn a minimum "C" or better in each of their major or minor courses. Students entering Teacher Education must confer with the department head concerning the program of study.

CHEMISTRY MAJOR CORE REQUIREMENTS (21 semester hours)

CY 105, 107 - General Chemistry I	4
CY 106, 108 - General Chemistry II	4
CY 231 - Organic Chemistry I	4
CY 232 - Organic Chemistry II	4
CY 321 - Quantitative Analysis	5

Professional Plan (ACS) Select one from Professional Chemistry, Biochemistry, or Environmental Chemistry:

A. Professional Chemistry

CY 341 - Physical Chemistry I	4
CY 342 - Physical Chemistry II	4
CY 362 - Biochemistry or CY 411 - Inorganic Chemistry	4
CY 421 - Instrumental Analysis	5
CY 490 - Internship or CY 497 - Senior Research	1
In this concentration, the math requirement is MS 125 and MS 126; the Physics requirement is PHS 211 and PHS 212 with labs.	
Total this option	39

B. Biochemistry

CY 341 - Physical Chemistry I	4
CY 342 - Physical Chemistry II	4
CY 362 - Biochemistry I	4
CY 363 - Biochemistry II	4
Cy 490 - Internship (1) AND CY 492 - Biochemical Research (1)	
or	
CY 492 - (1) (1)	2
In this concentration, the math requirement is MS 125 and MS 126; the Physics requirement is PHS 211 and PHS 212 with labs.	
Total this option	39

C. Environmental Chemistry (Students are strongly encouraged to minor in ESC.)

CY 341 - Physical Chemistry I	4
CY 342 - Physical Chemistry II	4
CY 430 - Environmental Chemistry	3
CY 433 - Sampling and Analysis	4
CY 490 - Internship (1) AND CY 493 - Envirochem Research (1)	
or	
CY 493 - (1) (1)	2
In this concentration, the math requirement is MS 125 and MS 126; the Physics requirement is PHS 211 and PHS 212 with labs.	
Total this option	38

D. General Chemistry (Pre-medical, Pre-dental, etc.)

CY 347- Concepts of Physical Chemistry	4
300/400 CY electives by advisement	15
In this concentration, the math requirement is MS 112 and MS 113; the Physics requirement is PHS 201 and PHS 202 with labs.	
Total this option	40

CHEMISTRY MINOR. A minor in Chemistry consists of a minimum of 24 hours of Chemistry courses, including CY 105, 106, 107, 108, 231, 232 and an additional 8 hours of 300/400 level chemistry electives.

CHEMISTRY (CY)
DESCRIPTION OF COURSES

101. **Fundamentals of Chemistry (3).** Lecture/3 hours. Designed to prepare students with weak backgrounds in chemistry and mathematics for CY 105. Fundamentals of chemical problem solving are stressed. Elective credit only; cannot be used to satisfy science requirements or a major or minor in Chemistry.
105. **General Chemistry I (3).** Lecture/3 hours. *Prerequisite: Appropriate ACT/SAT score for MS 112. Concurrent enrollment in CY 107 is required.* Part I of a two-semester sequence. General chemistry for science majors, including basic principles and laws of chemistry. Topics include measurements, dimensional analysis, reaction and stoichiometry, periodicity, atomic structure, bonding and molecular structure, and an introduction to organic chemistry.
106. **General Chemistry II (3).** Lecture/3 hours. *Prerequisite: CY 105. Concurrent enrollment in CY 108 is required.* Part II of a two-semester sequence. Continuation of CY 105. Topics include states of matter, solutions, kinetics, equilibrium, acid-base theory, thermodynamics, and electrochemistry.
107. **General Chemistry Laboratory I (1).** Lab/3 hours. *Concurrent enrollment in CY 105 is required.* Basic principles of matter will be explored. Topics of experimentation include obtaining accurate measurements, identifying unknown substances from their physical and chemical properties, purifying matter, exploring gas laws, and performing an acid-base titration.
108. **General Chemistry Laboratory II (1).** Lab/3 hours. *Concurrent enrollment in CY 106 is required.* Topics of experimentation include qualitative analysis, exploring reaction rates, ionic equilibria, and synthesis.
109. **Elementary Organic Chemistry (4).** Lecture/3 hours. Lab/3 hours. *Not open to students for credit toward a major or minor in Chemistry. Prerequisites: CY 105 and 107.* Principles of organic chemistry with emphasis on compounds of biological importance.
115. **Concepts of General Chemistry I (4).** Lecture/3 hours. Lab/3 hours. *Prerequisite: Appropriate ACT/SAT score for MS 112.* Part I of a two-semester sequence. General chemistry for students who are not planning to take any higher level courses in chemistry. This course in the basic principles and laws of chemistry is designed to cover a broad range of topics. Topics include measurements, the periodic table, ionic and covalent compounds, chemical reactions, energy changes, gases, liquids and solids, acids and bases and nuclear chemistry.
116. **Concepts of General Chemistry II (4).** Lecture/3 hours. Lab/3 hours. *Prerequisite: CY 115.* Part II of a two-semester sequence. General chemistry for students who are not planning to take any higher level courses in chemistry. This course is the second semester in the basic principles and laws of chemistry. Topics include organic molecules, functional groups, molecular configurations, aldehydes and ketones, carboxylic acids and derivatives, neurotransmitters, and metabolism.
164. **Physiological Chemistry (4).** Lecture/3 hours. Lab/3 hours. *Prerequisite: CY 105.* Not open to students for credit toward a major or minor in Chemistry. A brief review of organic chemistry followed by a study of the chemistry and metabolism of proteins, carbohydrates, and lipids.
231. **Organic Chemistry I (4).** Lecture/3 hours. Lab/3 hours. *Prerequisite: CY 106.* Part I of a two-semester sequence. Structure and properties of aliphatic hydrocarbons and their halo derivatives, emphasizing nomenclature, isomerism, synthesis, reactions, mechanisms and applications.
232. **Organic Chemistry II (4).** Lecture/3 hours. Lab/3 hours. *Prerequisite: CY 231.* Part II of a two-semester sequence. Structure and properties of aromatic compounds, halides, carbonyl compounds, alcohols, ethers and amines, their nomenclature, synthesis, reactions, mechanisms, spectroscopy and applications.
321. **Quantitative Analysis (5).** Lecture/3 hours. Lab/6 hours. *Prerequisites: CY 106 and 108.* Theory and practice of gravimetric, volumetric, potentiometric, and colormetric methods of analysis.
341. **Physical Chemistry I (4).** Lecture/3 hours. Lab/3 hours. *Prerequisites: CY 106, MS 125, PHS 211 and 212 are required.* Chemical thermodynamics with emphasis on understanding physical properties of pure substances and mixtures. The course covers fundamentals of classical thermodynamics with applications to phase transitions, colligative properties, and chemical equilibria.
342. **Physical Chemistry II (4).** Lecture/3 hours. Lab/3 hours. *Prerequisites: CY 106, CY 341, MS 126, PHS 211 and 212 are required.* Fundamentals of quantum chemistry and spectroscopy. The course concentrates on fundamentals of quantum mechanics with applications to chemistry. The course also covers theoretical basis of spectroscopy, focusing on infrared, Raman, visible, and nuclear magnetic resonance techniques.
347. **Concepts of Physical Chemistry (4).** Lecture/3 hours. Lab/3 hours. *Prerequisites: MS 113, PHS 202, CY 106.* This algebra-based course covers fundamentals of chemical thermodynamics and molecular structure with emphasis on life-science applications.
362. **Biochemistry I (4).** Lecture/3 hours. Lab/3 hours. *Prerequisite: CY 231.* Biochemical evolution, protein structure and function, flow of genetic information, enzymes, and enzyme kinetics.
363. **Biochemistry II (4).** Lecture/3 hours. Lab/3 hours. *Prerequisite: CY 232 and CY 362.* Metabolism, signal transduction, glycolysis and gluconeogenesis, citric acid cycle, oxidative phosphorylation, photosynthesis, glycogen and fatty acid metabolism.

- 411. Intermediate Inorganic Chemistry (5).** Lecture/3 hours. Lab/6 hours. *Prerequisites:* CY 106, 232, PHS 202. Fundamental topics in inorganic chemistry, including atomic structure, chemical bonding, periodic relationships, acid-base theories, non-aqueous solvents, and reaction mechanisms.
- 421. Instrumental Analysis (5).** Lecture/3 hours. Lab/6 hours. *Prerequisites:* CY 106, 321, PHS 202 or PHS 212. The operating principles and techniques involving the use of analytical instruments.
- 430. Environmental Chemistry (4).** Lecture/3 hours. Lab/3 hours. *Prerequisites:* CY 232 and 321. Introduction to water, air, and soil quality and their measurements. Introduction to the problems, regulations, treatment, and ultimate disposal of hazardous and toxic waste materials. Spill clean-up, groundwater transport, land disposal, incineration, and treatment technologies are discussed.
- 433. Environmental Sampling and Analysis (4).** Three hours lecture, three hours field and laboratory work per week. *Prerequisites:* CY 231, 232, 321, and ESC 300. This course will emphasize proper environmental sampling techniques (including QA/QC) and the EPA mandated analysis of various parameters, including soil, water, and air. Students will be expected to provide their own waders, hard hats, and rain suits.
- 435. Advanced Topics in Chemistry (3).** *Prerequisite:* CY 232. Advanced study of various topics in chemistry and chemistry related fields. This course is intended to be offered once per year, and topic selections will vary from year to year. See instructor. May be duplicated for credit for a total of 12 semester hours.
- 471. Toxicological Chemistry (3).** Lecture/3 hours. *Prerequisite:* CY 232. A study of the principles of toxicology, including identification of, characterization of, and risk from environmental exposures to toxic substances.
- 484. Laboratory Practicum (1).** One laboratory period per week. *Prerequisites:* Consent of instructor and completion of CY 321 or 341 or 347 or 362. Students will be involved in chemical pedagogy. This may involve chemical demonstrations, tutoring, grading or development of laboratory experiments. May be duplicated for credit for a total of 3 semester hours. Pass/Fail grade only.
- 490. Internship (1).** *Prerequisite:* Consent of instructor and availability of placement. Student will gain on-the-job experience with a firm or government agency. Student is expected to devote a minimum of 20 hours/week to this course. Pass/Fail grade only.
- 492. Biochemical Research (1).** *Prerequisites:* CY 231, 232, 362, 363. An introduction to biochemical research. Students will be involved in an ongoing research project, learning laboratory techniques pertinent to biochemical research, how to conduct literature searches, and how to critically evaluate their own and others' data. A minimum of 10 hours involvement per week will be expected. May be duplicated for credit for a total of 3 semester hours. Pass/Fail grade only.
- 493. Environmental Chemistry Research (1).** *Prerequisites:* CY 430 and 433. The student will complete an environmental research project which will involve monitoring, sampling, and chemical analysis. A detailed paper will be required outlining the student's findings and conclusions. A minimum of 10 hours involvement per week will be expected. May be duplicated for credit for a total of 3 semester hours. Pass/Fail grade only.
- 497. Senior Research (1).** *Prerequisite:* Permission of instructor. The student is assigned a simple piece of fundamental research. May be duplicated for credit for a total of 3 semester hours. Pass/Fail grade only.

PLAN OF STUDY

BACHELOR OF SCIENCE MAJOR: CHEMISTRY WITH PROFESSIONAL CONCENTRATION AND PHYSICS MINOR

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101	3	EH 102	3
HY Sequence ¹	3	EH 141	3
Fine Arts ²	3	HY Sequence ¹	3
MS 125, Calc I	4	MS 126, Calc II	4
CY 105, Gen Chem	3	CY 106, Gen Chem	3
CY 107, Chem Lab	1	CY 108, Chem Lab	1
STU 101	0		

17

17

SOPHOMORE YEAR

Fall		Spring	
Literature ³	3	Literature ³	3
CY 231, Organic Chemistry	4	Social/Behavioral Sci. ⁴	3
PHS 211	4	CY 232, Organic Chemistry.	4
PHS 213	1	PHS 212	4
CS 201 or higher	3	PHS 214	1
	15		15

JUNIOR YEAR

Fall		Spring	
CY 341	4	CY 342	4
Social/Behavioral Sci. ⁴	3	Elective	3
CY 321, Quant. Analysis	5	PHS 300+	3
PHS 301	3	General elective 300+	3
General elective 100+	3	General elective 100+	3
	18		16

SENIOR YEAR

Fall		Spring	
CY 362	4	General electives 300+	6
PHS 300+	3	PHS 300+	3
General electives 300+	8	CY 421	5
	15	CY 490	1
			15

TOTAL HOURS: 128

PLAN OF STUDY

BACHELOR OF SCIENCE

MAJOR: CHEMISTRY WITH GENERAL CONCENTRATION FOR PRE-HEALTH PROFESSIONAL AND BIOLOGY MINOR

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101	3	EH 102	3
BY 101	3	BY 102	3
BY 103	1	BY 104	1
MS 112	3	MS 113	3
CY 105, General Chemistry	3	CY 106, General Chemistry	3
CY 107, Chemistry Lab	1	CY 108, Chemistry Lab	1
STU 101	0	EH 141	3
	14		17

SOPHOMORE YEAR

Fall		Spring	
CY 231, Organic Chemistry	4	CY 232, Organic Chemistry	4
BY 373	4	BY 322	4
PHS 201	3	PHS 202	3
PHS 203	1	PHS 204	1
HY sequence ¹	3	HY sequence ¹	3
	15	Elective	2
			17

JUNIOR YEAR

Fall	Spring
BY 3324	BY elective 300+4
EH Literature ¹3	EH Literature ¹3
CY 321, Quant. Analysis5	Fine Arts ²3
CY 362 & Lab4	CS 201 or higher3
	CY 363 & Lab4
16	17

SENIOR YEAR

Fall	Spring
Social/Behavioral Science ⁴3	General electives 300+6
General elective 100+3	CY 300+3
CY 300+ elective4	CY 347..... 4
General electives 300+6	Social/Behavioral Science ⁴3
16	16

TOTAL HOURS: 128

¹ Choose either HY 101, 102 or HY 201, 202.

² Choose from ART 202, DR 242, MU 233, or FL 101.

³ Choose from EH 201, 202, 203, 204, 219, 220, 231, 232.

⁴ Choose from AN 224, EC 221, 222, GY 120, 220, PSC 100, PSY 201, 222, SY 221.

ENVIRONMENTAL SCIENCE (ESC)

The minor in Environmental Science (ESC) will be of value to majors seeking jobs involving environmental planning, safety, compliance, or oversight functions. Prior to enrolling in any of the ESC courses, a student must have completed a two-semester sequence of coursework in two of the following disciplines: BY, CY, GL, GY, or PHS.

The ESC minor consists of the following core of required courses: 15 hours

ESC 300 - Intro to Environmental Science	3
ESC 310 - Environmental Laws and Regulations	3
ESC 321 - Environmental Systems	3
ESC 460 - Quality Assurance/Quality Control	3
ESC 490 - Environmental Auditing	3

Students complete the minor by completing three of the following electives: 9-10 hours

BY 303 – Biological Conservation	3
CY 471 – Toxicological Chemistry.....	3
ESC 330 - Principles of Hazardous Materials Mgt	3
BY 332 – Ecology	4
ESC 495 – Risk Analysis	3
PHS 327 - Elementary Radiation Physics	3

Total Hours24/25

DESCRIPTION OF COURSES

- 300. Introduction to Environmental Science (3).** An overview of environmental science principles, environmental and health effects of pollutants, and a discussion of possible solutions that can be implemented to minimize or eliminate damage to Earth.
- 310. Environmental Laws and Regulations (3).** *Prerequisite:* ESC 300. In-depth study of selected environmental regulations relating to hazardous substances and wastes, clean air and clean water, and origins in statutory law.
- 321. Environmental Systems (3).** *Prerequisite:* ESC 300. An introduction to the engineering systems and equipment used to protect our air, water, and soils. This non-mathematical course is designed to prepare individuals from various disciplines to understand the selection, basic design, application, and effectiveness of environmental engineering systems.
- 330. Principles of Hazardous Materials Management (3).** *Prerequisites:* CY 105 and 106. An introduction to the identification and management of hazardous materials encountered in the workplace, school, or home. This course

will focus on management approaches, including education and training, engineering systems, task performance practices, administrative procedures, emergency response plan preparation, and first responder actions that can be used to minimize exposures and consequent health and environmental effects.

- 402. Practicum in Environmental Science (3).** *Prerequisite: Approval of instructor.* This course provides opportunity to gain on-the-job experience with a firm or government agency. May be duplicated for credit for a total of six semester hours. Grades: Pass/Fail.
- 403. Independent Study (1).** *Prerequisite: Approval of instructor required.* This course gives the advanced student opportunity to pursue directed research. May be duplicated for credit for a total of three semester hours. Grades: Pass/Fail.
- 460. Quality Assurance/Quality Control (3).** *Prerequisite: Permission of instructor.* This course is designed to equip the student with a firm understanding of QA/QC techniques in the environmental field. This will be accomplished through the use of simple statistical methods and a study of the EPA requirements for sampling and analysis of environmental parameters.
- 480. Environmental Impact Statements (3).** *Prerequisites: ESC 300, 310, 321, 330, and 400.* The National Environmental Policy requires that potential environmental impacts of proposed projects be evaluated and presented in the form of an Environmental Impact Statement (EIS). This course reviews the EIS format and the collaborative procedures used to produce an EIS.
- 490. Environmental Auditing (3).** Overview of systematic auditing techniques with a focus on regulatory compliance, liability, environmental awareness and ethics. This course will also cover process mapping as a tool of auditing, the new international standards (ISO 14000) and their implications on future industrial activities.
- 493. Special Topics in Environmental Science (3).** Advanced study of various topics in environmental science and related fields. May be duplicated for credit for a total of 12 semester hours.
- 495. Risk Analysis (3).** An in-depth study of methodologies for human and environmental risk analysis, with a focus on hazardous chemical releases. Case studies will illustrate current field techniques.
- 496. Watershed Management (3).** *Prerequisites: GY 307 and ESC 300.* This course will cover 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. Cases studies of watershed management techniques will be used to illustrate problems confronting our nation's waters. Applications of GIS-based techniques will be covered as a tool available for managers.

GEOGRAPHY (GY)

Geography serves as a bridge between the physical and social sciences. Emphasis is on the nature and distribution of environmental systems, human activities, relations between them, and their variation from place to place. Geography's uniqueness is not derived from the subject matter studied, but from the discipline's technical and methodological approach to the locational analysis of phenomena.

The Bachelor of Science in Geography degree offered by the Department of Physical and Earth Sciences requires an overall minimum of 120 semester hours comprised of the following sub-requirements: 32 hours of Geography, including 18 hours of 300/400 level courses at JSU (this must include GY 307); a minor, including 6 hours of 300/400 level courses at JSU; 41 hours of state articulated general studies courses; 23 hours of support courses; and 36 hours of 300/400 level courses, which include those required in the major and minor. Any hours remaining to meet the 120 hour minimum or the 36 hour minimum of 300/400 level will be classified as electives. Students must earn a minimum "C" or better in each of the major and minor courses.

Geography Major. Students should work closely with an advisor in selecting electives appropriate to their goals.

GY 208 - Map Reading	3
GY 220 - Human Geography	3
GY 250 and 251 - Physical Geography and labs (252, 253) OR	
GL 241 and 242 - Physical & Historical Geology	
and labs (243, 244)	8
GY 307 - Geographic Information Systems	3
GY 300/400 level electives	15
Total hours	32

Geography Minor. A minor in Geography requires a minimum of twenty-three (23) semester hours and must include the following courses:

GY 120 or 220	3
GY 250/252 and 251/253 or GL 241/243 and 242/244	8
GY 208	3
GY Electives - 300/400 level	9

DESCRIPTION OF COURSES

120. **World Regional Geography (3).** This course examines major world regions, each the unique result of interaction between an environmental setting and human social and economic activity.
208. **Map Reading (3).** An introduction to basic map reading and analysis involving symbol identification, coordinate location, and direction and distance measurement. Emphasis is upon using the topographic map.
210. **Earth and Space Science (3).** The study of earth systems, including weather, climate, the lithosphere, soils and biomes.
220. **Human Geography (3).** The study of social and cultural patterns, emphasizing the arrangement and diversity of economic, social, political, religious, and demographic culture traits.
250. **Physical Geography I: Atmospheric Patterns and Processes (3).** *GY 252 is required but not concurrently.* Study of the function and distribution of the interrelated processes that shape Earth's weather and the classification and distribution of Earth's climates.
251. **Physical Geography II: Landscape Patterns and Processes (3).** *GY 253 is required but not concurrently.* Study of Earth's soils, biomes and physiographic regions with emphasis on the processes that formed them and their global patterns.
252. **Physical Geography Laboratory I (1).** *GY 250 is required but not concurrently.* One two-hour lab per week. Experiments focus on weather, energy and moisture budgets, and climatic classification.
253. **Physical Geography Laboratory II (1).** *GY 251 is required but not concurrently.* One two-hour lab per week. Exercises focus on study of the physical properties of soils, the analysis of biomes, the use of topographic maps to identify land surface features and the identification of physiographic regions.
302. **Principles of Remote Sensing (3).** *Prerequisite: GY 208.* An introduction to the electromagnetic spectrum, aerial photography and aerial photo interpretation and mapping.
307. **Geographic Information Systems (3).** *Prerequisite: GY 208.* Introduction to the cartographic acquisition, processing, management, manipulation, analysis, and generation of spatial digital data in a Geographic Information System.
308. **Cartography: Map Design (3).** *Prerequisite: GY 208 or permission of instructor.* Two hours of lecture, two hours of lab. Introduction to computer-assisted map making, emphasizing principles of map design.
312. **Public Service Mapping (3).** Examines the tools and methods provided by geographic information science for planning and maintaining public service. Consideration includes crime analysis and mapping, emergency and disaster response, environmental management, geographic distribution of health problems and facilities, parcel and infrastructure maintenance and mapping, analysis of networks, and predictive modeling.
315. **Research Methods I (3).** *Prerequisites: EH 101 and 102, GY 250 and 252 or 251 and 253 or GL 241 and 243, and GY 220.* Design and preparation of a geographic research proposal, with emphasis on problem identification, methodology design and literature review. Fall semester only.
316. **Research Methods II (3).** *Prerequisite: GY 315.* Design and preparation of the graphics and statistical analysis portions of a geographic research proposal. Spring semester only.
320. **Political Geography (3).** A study of the spatial aspects of political phenomena from the international to the local scale. Suggested background: GY 220.
331. **Climatology (3).** A study of climates, how they are classified, and their effect upon human activity.
333. **Meteorology (3).** *Recommended: GY 250.* The study of weather types and their causes, weather instrumentation, the construction and interpretation of weather maps, analog and synoptic forecasting, and weather modification.
341. **Economic Geography (3).** A survey of the factors which influence the location of economic activities with emphasis on the application of various elementary techniques designed to determine the relative economic potential of any place.
351. **Advanced Regional Study (3).** Examination of the interrelations among various physical and cultural elements that make regions of the world distinctive. Regional focus varies. See instructor. May be duplicated for credit for a total of 12 semester hours.
361. **Geography of the Arab World (3).** This course employs a macro geographical (regional and systematic) approach that introduces the students to the process of social and political change in the Arab World. The focus will be on the political, social, environmental and economic positions and interaction of the major players within the region. We look at the complexity of the region and its historical-cultural specifics. From a geopolitical perspective we survey recent socioeconomic and political exchanges and look at events that have begun to transform the contemporary Arab World, most notably the "Arab Spring" and the uprisings of Summer and Fall of 2012, and how these events are precursors to continued change.
398. **National Parks Interpretation (3).** Students will receive intensive training preparing them to work as student interns at Little River Canyon National Preserve. Several days of travel to Little River Canyon will be required.
399. **Geography Study Tour (3).** *Permission of instructor required.* Topics, excursions, and requirements determined by department. May be duplicated for credit; however, only 3 credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.

401. **Practicum in Geography (3).** *Permission of instructor required.* This course provides opportunity to gain on-the-job experience with a firm or government agency. May be duplicated for credit for a total of 6 semester hours. Pass/Fail grade only.
403. **Independent Study (1).** *Permission of instructor required.* This course gives the advanced student opportunity to pursue directed research. May be duplicated for credit for a total of 3 semester hours. Pass/Fail grade only.
406. **Digital Image Analysis (3).** *Prerequisite: GY 302.* Advanced instruction in multi-spectral, thermal and microwave sensing of the geographic environment. Emphasis on analysis of digital imagery.
422. **Geographic Views of History (3).** Use of the geographic perspective to examine facets of World, United States, and Alabama history.
431. **Topics in Physical Geography (3).** Advanced geographic study of various facets of the natural environment. Topic selection varies. See instructor. May be duplicated for credit for a total of 12 semester hours.
444. **Topics in Environmental Conservation (3).** In-depth examination of various conservation issues. Topic selection varies; see instructor. May be duplicated for credit for a total of nine semester hours.
451. **Advanced GIS (3).** *Prerequisites: GY 307 and permission of instructor required.* Advanced training in selected geographic techniques. Topic selection varies. See instructor. May be duplicated for credit for a total of 15 semester hours.
453. **Analyzing Spatial Networks (3).** *Prerequisite: GY 307.* 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 organization entities.
454. **Site Location Analysis (3).** *Prerequisite: GY 307.* Emphasis on evaluating existing site location efficiencies, determining of appropriate point site and area site locations for organizational entities, and analyzing environmental impact analyses using GIS.
455. **Organization and Management of Spatial Systems (3).** *Prerequisite: GY 307.* 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.
456. **Spatial Data Layout and Display (3).** *Prerequisite: GY 307.* 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.
459. **Spatial Data Collection and Management (3).** *Prerequisite: GY 307.* 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.
466. **Topics in Cultural Geography (3).** Advanced geographic study of various facets of human culture. Topic selection varies. May be duplicated for credit for a total of 12 semester hours.
475. **Natural Hazards (3).** *Prerequisites: GY 250 and GY 251 or GL 241.* An introduction to natural hazards, their causes, distribution and impacts. Focus on human perception, vulnerability and risk analysis.
480. **Geography Laboratory Practicum (1).** *Prerequisite: Permission of instructor.* Four hours of laboratory per week. Students learn to utilize pieces of equipment and demonstration techniques while assisting an instructor to prepare and conduct lab sessions. May be duplicated for credit for a total of 2 semester hours. Pass/Fail grade only.
490. **Colloquium (1).** *Prerequisite: A completed piece of research must be submitted prior to enrollment in this course.* Results of a basic research project in geography are presented in a conference setting using PowerPoint or equivalent software. Permission of instructor required. Pass/Fail grade only.

PLAN OF STUDY
BACHELOR OF SCIENCE
MAJOR: GEOGRAPHY

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall	Spring
EH 1013	EH 1023
HY Sequence ¹3	EH 1413
MS 110/1123	HY Sequence ¹3
GY 250, Physical GY I3	MS 204, Basic Stat3
GY 252, Geography Lab I1	GY 251, Physical GY II.3
AN 224, Intro to Anth3	GY 253, Geography Lab II1
STU 101.....0	
16	16

SOPHOMORE YEAR

Fall	Spring
Literature ¹3	Literature ¹3
Fine Arts elective ²3	GY 220, Human GY3
GY 120, World Regional GY3	CS 2013
GY 208, Map Reading3	Minor6
Science elective w/lab ³4	
16	15

JUNIOR YEAR

Fall	Spring
GY 307, GIS3	GY electives 300/4006
Minor6	Minor/Gen electives 300/4009
General elective/300+ Elective4	
13	15

SENIOR YEAR

Fall	Spring
GY electives 300/400+6	General electives 300+13
General electives/300+ Elective7	GY elect 300/400+3
13	16

TOTAL HOURS: 120

¹Choose either HY 101, 102 or HY 201, 202.

²Choose from ART 202, DR 242, MU 233, or FL 101.

³Choose from EH 201, 202, 203, 204, 219, 220, 231, 232.

⁴Choose from BY 101 and 103, CY 105 and 107, GL 242 and 244, PHS 201 and 203.

GEOLOGY (GL)

A two-semester sequence of geology is offered which can be used to meet the University general studies natural science requirement. Students interested in earth science are encouraged to consider a major/minor in Geography.

DESCRIPTION OF COURSES

- 241. Physical Geology (3).** *GL 243 is required but not concurrently.* Modern concepts of the Earth's physical composition, crustal structures, and the internal/external forces acting on them.
- 242. Historical Geology (3).** *GL 244 is required but not concurrently.* Study of the Earth's evolution, including changes in its crust, surface features, atmosphere, and life forms.

- 243. Physical Geology Lab (1).** *GL 241 is required but not concurrently.* One two-hour lab per week. Emphasis on rock/mineral identification and the study of landforms through topographic and geologic map interpretation.
- 244. Historical Geology Lab (1).** *GL 242 is required but not concurrently.* One two-hour lab per week. Study of Earth history using geologic maps and the fossil record of plant and animal development.
- 483. Geology Lab Practicum (1).** *Prerequisite: Permission of instructor.* Students learn how to use various pieces of equipment and lab demonstration techniques while assisting an instructor to prepare and conduct lab sessions. May be duplicated for credit for a total of 2 semester hours. Pass/Fail grade only.

MARINE SCIENCE (GL)

Courses taken in Marine Science are offered only at the Sea Lab of the Marine Environmental Sciences Consortium on Dauphin Island. Courses taken at the Sea Lab may be used for elective credit toward graduation, but will not count toward any major or minor offered by the department. For course description of other courses taught at the Sea Lab, see listing in the Biology Department. Students requiring further information about Sea Lab programs should consult with the program advisor in the Biology Department.

DESCRIPTION OF COURSES

- 329. Coastal Climatology (2).** Introduction to physical factors resulting in climatic conditions of coastal regions, emphasis on the northern Gulf of Mexico.
- 390. Marine Geology (4).** *Prerequisite: GL 241 or permission of instructor.* A study of the geology of the ocean basins, with special emphasis on the continental shelves, their sediments, and the sedimentary processes at work there.

PHYSICS (PHS)

Jacksonville State University offers a minor in Physics. Students in the sciences, mathematics and computer science will find this program a valuable complement to their majors.

PHYSICS MINOR. Requirements for a minor in Physics include PHS 211, 213, 212, 214, 301 and nine hours in Physics 300+. These courses will be selected in conference with a Physics program advisor.

DESCRIPTION OF COURSES

COURSES WITH NO PHYSICS OR MATH PREREQUISITES

- 327. Elementary Radiation Physics (3).** This course is intended for any student interested in radiation safety and specifically for students in Physics, Chemistry, Pre-medicine, Pre-dentistry, Nursing, Biology, and Archaeology. The course objective is to provide individuals with the knowledge and procedures necessary to minimize exposures to ionizing and non-ionizing radiation and to understand the physiological and environmental effects of radiation. Instruction will include lectures, discussions, demonstration, and laboratory exercises.
- 350. Physics in Music (3).** This course will explore the physics involved in music. A variety of questions with sound and music will be explored. What physical properties can be used to describe sound? How do musical instruments produce sound? What are the physical reasons that instruments playing the same note sound different? How does sound travel through space? Why does your voice sound so different on a recording? Students will be encouraged to generate and explore their own questions. Some class periods will be devoted to a hands-on look at ideas. This course is designed to be descriptive in nature rather than highly mathematical. No math or physics prerequisites.
- 371. Astronomy (4).** 3 hours lecture/3 hours lab per week. A survey of the structure and evolution of the universe, from planets to stars and galaxies. Questions about the nature of science, limits to current knowledge, and the influence of space science will be addressed. The course culminates in individual in-depth explorations of particular aspects of astronomy.

INTRODUCTORY PHYSICS COURSES AND THEIR MATH PREREQUISITES

- 201. College Physics I (3).** *Prerequisite: MS 113 or MS 117. Concurrent enrollment in PHS 203 is required.* This course is the first half of a two-semester sequence that introduces basic concepts in physics. Beginning with mechanics and motion, we develop methods for mathematically describing the way objects move and predicting their future movement. The course proceeds to study wave motion with springs, strings, water, sound, and light. Does not count toward the Physics minor. Credit will not be granted for both 201 and 211.
- 202. College Physics II (3).** *Prerequisite: PHS 201 and either MS 113 or MS 119. Concurrent enrollment in PHS 204 is required.* The second half of this sequence of courses begins by studying electricity and basic circuits, followed by magnetism. A section on light, including lenses and mirrors, follows. The behavior of light waves, such as rainbows and soap bubbles, will also be explored. Finally, topics from quantum mechanics and special relativity are introduced to give students a flavor of the revolutionary nature of these topics in their original scientific setting. Does not count toward the Physics minor. Credit will not be granted for both 202 and 212.
- 203. College Physics Lab I (1).** *Concurrent enrollment in PHS 201 is required.* Two laboratory hours each week. Concepts of physics developed in the associated courses will be studied through the use of hands-on activities. Students will work in groups to explore topics in motion, mechanics, waves, and sound. Does not count toward the Physics minor.

- 204. College Physics Lab II (1).** *Concurrent enrollment in PHS 202 is required.* Two laboratory hours each week. Concepts of physics developed in the associated courses will be studied through the use of hands-on activities. Students will work in groups to explore topics in electricity, magnetism, optics, and modern physics. Does not count toward the Physics minor.
- 211. Physics for Scientists and Engineers I (4).** *Prerequisite: MS 125. Concurrent enrollment in PHS 213 is required.* This course is the first of two semesters designed to introduce the basic concepts of physics. The first semester will concentrate on the area of physics called Newtonian mechanics that is used to work with macroscopic (ordinary-sized) objects. Beginning with mechanics and motion, we develop methods for mathematically describing the way objects move and predicting their future movement. The course proceeds to study wave motion with springs, strings, water, sound, and light. We will take advantage of the power of calculus to depict movement by weaving its structure into our physical laws and theories. Since the development of both calculus and Newtonian mechanics by Sir Isaac Newton, calculus and physics have been intertwined, and students in this course will see these close connections. Credit will not be granted for both 201 and 211.
- 212. Physics for Scientists and Engineers II (4).** *Prerequisites: PHS 211, MS 126. Concurrent enrollment in PHS 214 is required.* The second semester of this sequence begins by studying electricity and basic circuits, followed by magnetism. A section on light, including lenses and mirrors, follows. The behavior of light waves, such as rainbows and soap bubbles, will also be explored. Finally, topics from quantum mechanics and special relativity are introduced to give students a flavor of the revolutionary nature of these topics in their original scientific setting. Once again, calculus will be used throughout the course. Credit will not be granted for both 202 and 212.
- 213. Elementary Laboratory Techniques I (1).** *Concurrent enrollment in PHS 211 is required.* Two laboratory hours each week. Concepts of physics developed in the associated courses will be studied through the use of hands-on activities. Students will work in groups to explore topics in motion, mechanics, waves, and sound.
- 214. Elementary Laboratory Techniques II (1).** *Concurrent enrollment in PHS 212 is required.* Two laboratory hours each week. Concepts of physics developed in the associated courses will be studied through the use of hands-on activities. Students will work in groups to explore topics in electricity, magnetism, optics, and modern physics.

COURSES FOR WHICH PHS 202 OR 212 ARE PREREQUISITES

- 383. Special Topics (3).** This course will explore a topic of current interest in the field of physics. May be taken twice for a total of 6 semester hours.
- 411. Laboratory Practicum (1).** Four hours of laboratory per week. Students learn to utilize pieces of equipment and demonstration techniques while assisting an instructor to prepare and conduct lab sessions. This course may be repeated for a maximum of four semesters for a total of 4 semester hours. Not for credit toward a minor.

COURSES FOR WHICH PHS 211, 213, 212, 214 ARE PREREQUISITES

- 301. Modern Physics (3).** Explore the two 20th century revolutions in physics: quantum mechanics and special relativity. We will study the evidence that led to the acceptance of each of these theories and some of the implications of these theories. Both quantum mechanics and relativity have become part of the popular culture. This course offers the opportunity to understand their ideas in their original context and see how popular culture usage differs from scientific usage.
- 303. Classical Mechanics (3).** This course investigates various aspects of classical mechanics, including kinematics and dynamics of motion, rigid bodies, oscillatory motion, central forces and gravitation, and Lagrangian and Hamiltonian formulations of classical mechanics.
- 343. Electromagnetism I (3).** *Prerequisite: MS 227.* Electric and magnetic fields will be studied. What are their origins? What features of nature affect the nature and strength of the fields? What are some of their effects? Maxwell's equations uniting all of electricity and magnetism will be seen in their full glory.
- 443. Electromagnetism II (3).** *Prerequisite: PHS 343.* Continuing the study begun in PHS 343, changing electromagnetic fields are investigated. These changing fields form electromagnetic waves in free space and matter that exhibit all of the standard behaviors of waves. Thus, topics will include reflection and refraction of electromagnetic waves, guided waves, and the field of a moving charge.
- 491. Quantum Mechanics I (3).** *Prerequisites: PHS 301, MS 344.* This course extends 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, such as a particle in a box, a linear harmonic oscillator, the hydrogen atom, and a one-dimensional crystal.
- 492. Quantum Mechanics II (3).** *Prerequisite: PHS 491.* This course deals with a number of topics pertaining to non-relativistic quantum mechanics, including addition of angular momentum, identical particles and multi-electron atoms, time-independent approximation method and applications, time-dependent perturbation theory and scattering theory.

DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC ADMINISTRATION (PSC)

220 BREWER HALL

Department Head: TBA

Professors: Barnett, Lester, Owens

Associate Professors: Hathaway, Krejci, Saeki

Assistant Professors: Dial, Russell

The Department of Political Science and Public Administration offers a variety of courses for students in the liberal arts, pre-law, and professional education curricula. A wide range of courses is available for those preparing for careers in law, government, politics, international affairs, business, communications, and many other fields.

The Political Science major requires thirty hours of political science, including Political Science 100, 102, and at least six hours from each of the three fields (Theory and Methodology, American Government, and Global Studies) listed below, plus six hours of political science electives. In addition to the thirty hours of political science, Criminal Justice 101 is required. The Political Science minor requires twenty-one semester hours, including Political Science 100, 102, and at least three hours from each of the three fields listed below, plus six hours of political science electives.

Fields of Political Science

Theory and Methodology: PSC 301, 451, 452, 454, and 455. (It is strongly recommended that majors considering graduate study take PSC 301.)

American Government: PSC 101, 203, 230, 342, 352, 402, 412, 443, 444, 445, 447, 450, 482, 493, 498, and 499.

Global Studies: PSC 375, 377, 421, 423, 430, 431, 432, 433, and 435.

Pre-Law

There is no specific major in pre-law; however, a large percentage of students planning to attend law school select Political Science as a major. Beyond the requirements of the major, it is recommended that pre-law students take courses in logic, economics, accounting, real estate, and advanced composition. Students should meet with Dr. Owens regarding advisement for pre-law. Regardless of major, pre-law students must take PSC 203, Introduction to Law, during the freshman or sophomore year. All upper division pre-law students must take PSC 443, Constitutional Law I, or PSC 444, Constitutional Law II.

The Political Science Department sponsors the Pre-law Society, maintains relations with regional law schools, and provides application and informational materials for the Law School Admissions Test (LSAT).

Minor in International Studies

Students whose interest and/or career plans have an international orientation may wish to pursue a minor in International Studies. While the International Studies minor is administered by the Political Science Department, any major offered by the University (including Political Science) is acceptable. Twenty-four semester hours, distributed as follows, are required for the International Studies minor.

Political Science: (twelve hours*)

PSC 100* (Political Science majors must take an additional course from the Global Studies field.)

PSC 421 or 423

PSC 432

Three hours selected from PSC 305, 375, 377, 421, 430, 433, and 435.

Geography: (six hours*)

GY 320, 341, or 466

Three hours selected from GY 351, AN 345, and 347**

Electives: (six hours*)

Two courses selected from any of the following:

Foreign Languages—by advisement**

History—HY 302, 332, 333, 404, 409, 410, 411, 465, 468, 469, 470, 471, 473, 480, 481, 483, and 485**

Sociology—SY 366

College of Commerce and Business Administration—EC 305, 450; FIN 434; MGT 496

In addition to the above, students minoring in International Studies must take History 101 and 102 and must take Geography 120 and 220. The history courses and geography courses may also count toward the general studies curriculum history and social/behavioral science requirements.

* Courses counted toward the major may not also be counted toward the International Studies minor.

** Where possible, all area-specific courses should focus on the same area: Western Europe, the former Soviet Union and Eastern Europe, Far East, Latin America, the Middle East, and so on.

POLITICAL SCIENCE (PSC)
DESCRIPTION OF COURSES

100. **Introduction to American Government (3).** Structure and organization of the American national government. Evolution of the United States Constitution and the federal system, civil rights, voting and elections, Congress, the President, and the federal courts.
101. **Introduction to Political Science (3).** Nature and scope of political science, basic concepts and terminology, nature of the state and government, types of political systems, comparative political institutions.
102. **Introduction to State and Local Government (3).** A study of the organization, functions, and powers of state, county, and municipal governments in the United States.
103. **Honors Introduction to American Government (3).** Structure and organization of the American national government. Evolution of the United States Constitution and the federal system, civil rights, voting and elections, Congress, the President, and the federal courts.
203. **Introduction to the Law (3).** An examination of the American legal system, court procedures, appeals procedures, and the use of legal reference materials with selected cases.
230. **Politics and Film (3).** Current impact and historical influence of film upon American politics and policy. Includes scholarship about the movie industry and civic values. Students view political films.
301. **Political Science Methods (3).** The scope and approaches to political science with considerable attention to research methods, techniques, and current research problems.
342. **Political Parties (3).** Composition, organization, and function of American political parties on the national, state, and local levels.
352. **The Legislative Process (3).** American legislative bodies with emphasis upon recruitment, composition, structure, procedures, functions, role of parties and pressure groups, and problems of legislative reform.
375. **Governments of Latin America (3).** Political organization and structure of the principal Latin-American countries with emphasis on constitutional development and present-day issues.
377. **Governments of the Middle East (3).** The government and politics of the Middle East with attention to present developments and the role of these countries in world affairs.
402. **Introduction to Public Policy (3).** *Prerequisite: PSC 100.* 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.
410. **Religion, Politics and Policy (3).** Explores the historical and constitutional foundations of religious freedom in America. Probes First Amendment jurisprudence. Examines current debates about free exercise, public interest religion, policy making, and religion in global affairs.
412. **Inter-governmental Relations (3).** *Prerequisite: PSC 100.* 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.
423. **American Foreign Policy (3).** Traces main streams of American foreign policy from the twentieth-century to the present. Major American foreign policy decisions are used in the analytical development of American foreign policy processes. The various influences upon foreign policy decision-making are identified and evaluated.
430. **Governments of Asia (3).** Examines the political systems and political cultures of Asian countries from Afghanistan to Southeast Asia, with major emphasis on India, China, and Japan.
431. **Comparative Politics (3).** An examination of the government and politics of a variety of different national states that includes the concepts, ideas, and analytical tools necessary to understand the structures and processes of different types of political systems. Covers western and non-western, developed and less developed, communist and post-communist, and newly industrializing countries. The impact of globalization is also examined.
432. **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.
433. **Governments of Europe (3).** *Prerequisite: PSC 100.* Examines the political systems and political cultures of Europe with major emphasis on Great Britain, France, Germany, and Russia.
443. **Constitutional Law I (3).** Fundamental principles of the United States Constitution and its development. Topics include powers of President and Congress, federalism, interstate commerce, and others. Textbook and case methods.
444. **Constitutional Law II (3).** Relationship between the individual and government as revealed through constitutional law cases. Major emphasis will be on civil liberties based on the interpretation of the Bill of Rights and the Fourteenth Amendment. Textbook and case methods.
445. **Southern Politics (3).** An examination of the party system of the Southern states in terms of its origin, nature, distribution of power, and impact on national politics.

- 447. Politics and Public Opinion (3).** Forces affecting politics, public opinion, and elections in the United States. Examines the election structure, as well as individual and group political participation.
- 450. The American Executive (3).** The role and behavior of the American executive at the national, state, and local levels in the U.S. political system with emphasis upon the American Presidency.
- 451. Ancient and Medieval Political Theory (3).** Examines political thought from ancient Greece to the late Middle Ages in Europe. An emphasis is placed on the historical-cultural context in which these theories developed and their influence on modern concepts.
- 452. 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.
- 454. American Political Thought (3).** Principal ideas of leading political thinkers in America from the colonial period to the present.
- 455. Introduction to Political Psychology (3).** This course is an overview of the interdisciplinary connection between political and psychological processes. The incorporation of political science and psychology may help in the understanding of why leaders behave as they do and why citizens support or oppose political leaders. The course will include social cognition and decision making, personality and identity, and environmental factors that affect individual political ideologies. (PSC 455 is cross-listed with PSY 446, but only one course may be taken for credit.)
- 482. Grantwriting (3).** Practical course instructing the steps involved in the grantwriting process. This course includes strategic planning, research, finding appropriate grant sources and writing the grant.
- 484, 485. Individual Study (3) (3).** *Prerequisites: Must be major or minor with advanced standing and have permission of instructor.* Involves extensive study/research upon specific topics under close supervision by instructor. Letter grades are assigned for these courses.
- 493. The Judicial Process (3).** *Prerequisite: PSC 100.* A study of the judicial process through actual attendance at court trials. Meetings and discussions are held with judges, lawyers, prosecutors, and others.
- 498, 499. Internship (3) (3).** *Prerequisite: 15 hours of Political Science.* Involves supervised assignment of student either to the U.S. Congress or Alabama State Legislature or to an area public agency, such as the East Alabama Regional Planning Commission, City of Anniston, Calhoun County District Attorney's Office, Alabama Seventh Judicial Circuit offices, or a lawyer's office. Pass/Fail grade only.

**PLAN OF STUDY
BACHELOR OF ARTS
MAJOR: POLITICAL SCIENCE**

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101	3	EH 102	3
HY 101 or 201	3	EH 141	3
PSC 100	3	HY 102 or 202 (to complete seq)	3
Fine Arts	3	PSC 102	3
MS 110 or higher	3	MS higher than 110 (MS 204 recommended).....	3
STU 101.....	0		
	15		15

SOPHOMORE YEAR

Fall		Spring	
Literature	3	Literature	3
Natural Science sequence	4	Natural Science sequence	4
Social/Behavioral Science	3	Social/Behavioral Science	3
CS 201	3	Wellness	3
CJ 101	3	Minor/general electives	5
	16		18

JUNIOR YEAR

Fall	Spring
PSC Amer. Govt. elec.3	PSC Amer. Govt. elec.3
PSC Global Studies elec.3	PSC Global Studies elec.3
Minor/general elec.12	Minor/general elec.10
<hr/> 18	<hr/> 16

SENIOR YEAR

Fall	Spring
PSC Theory & Method. elective3	PSC Theory & Method. elective3
PSC 300+3	PSC 300+3
Minor/electives9	Minor/general electives9
<hr/> 15	<hr/> 15

TOTAL HOURS: 128

PLAN OF STUDY

BACHELOR OF ARTS MAJOR: POLITICAL SCIENCE/PRE-LAW

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall	Spring
EH 1013	EH 1023
HY 101 or 2013	EH 1413
PSC 1003	HY 102 or 202 (to complete seq)3
Fine Arts3	PSC 1023
MS 110 or higher3	MS higher than 110 (MS 204 recommended).....3
STU 101.....0	
<hr/> 15	<hr/> 15

SOPHOMORE YEAR

Fall	Spring
Literature3	Literature3
Natural Science sequence4	Natural Science sequence.4
Social/Behavioral Science3	EC 222*3
CS 2013	Wellness3
CJ 1013	ACC 200*3
PSC 203**3	
<hr/> 19	<hr/> 16

JUNIOR YEAR

Fall	Spring
PSC Amer. Govt. elective3	PSC Amer. Govt. elective3
PSC Global Studies elective3	PSC Global Studies elective3
EH 344*3	FIN 341*3
Minor/general electives9	Social/Behavioral Science3
<hr/> 18	Minor/general electives3
	<hr/> 15

SENIOR YEAR

Fall	Spring
PSC Theory & Method. elective3	PSC 444***3
PSC 443***3	PSC Theory & Method. elective3
Minor/general electives9	Minor/general electives9
<hr/> 15	<hr/> 15
TOTAL HOURS: 128	

*These courses are suggested electives and should be taken only after advisement by the pre-law advisor.

**PSC 203 is required for pre-law students.

***PSC 443 or PSC 444 required for pre-law students.

DEPARTMENT OF PSYCHOLOGY (PSY)

211 AYERS HALL

Department Head: Paige McKerchar

Professor: Palya

Associate Professors: Dempsey, P. McKerchar, T. McKerchar, Robertson

Assistant Professors: Bayles, Bruzek

Instructors: Conroy, Cothran

The Psychology Department's mission is to develop a thoroughgoing, science-based psychology curriculum for understanding behavior; to establish student learning outcomes related to basic psychological principles, research methods, critical thinking, and professional skills; and to support student participation in research programs and community service projects. These experiences are designed to allow students the opportunity to practice discussing major psychological principles and research findings; to apply psychological principles and procedures to real-life settings; and to eventually pursue careers in an array of human-service industries or admission to various graduate programs.

Psychology Major (B.S.). The course requirements for a major in Psychology total **120 semester hours**, including **General Studies requirements (60 semester hours):** *Area I. Written Composition (6 hours) – EH 101/103 and EH 102/104; Area II. Humanities and Fine Arts (12 hours) – EH 141, two literature courses (EH 201, 202, 203, 204, 219, 220, 231, or 232), and one fine arts course (FH 101, 102, 201, 202; SH 101, 102, 201, 202; ART 202, DR 242, or MU 233); Area III. Natural Sciences and Mathematics (11 hours) – MS 108 or higher and one science sequence (BY 101/103 and BY 102/104; CY 105/107 and CY 106/108; GL 241/243 and GL 242/244; GY 250/252 and GY 251/253; or PHS 201/203 and PHS 202/204); Area IV. History, Social, and Behavioral Sciences (12 hours) – one history sequence (HY 101 and 102 or HY 201 and 202) and two social science courses (AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, or SY 221); and Area V. Pre-professional, Major, and Elective Courses (19 hours) – CS 201 or higher; MS 204 or MS 302; PSY 201 and PSY 205; 9 elective hours (minor courses may be used to meet elective requirements);* **thirty-six (36) semester hours in psychology:** *Core courses (12 hours) – PSY 220, 221, 301, and 450; and elective courses (24 hours) – select from courses listed 300 or above (excluding required courses), but only 6 hours from courses numbered 460-499 can count toward this requirement; and a minor in another academic discipline.* A suggested "Plan of Study" is located after the "Description of Courses" below.

Psychology Minor. The requirements for a minor are **twenty (20) semester hours**, including PSY 220, 221, and 301 (PSY 201 is a prerequisite for these courses); and **12 hours of electives** numbered 300 or higher (excluding PSY 301). Students may only count 3 hours of courses numbered 460-499 toward their psychology minor.

PSYCHOLOGY (PSY) DESCRIPTION OF COURSES

- 201. Principles of Psychology (3).** An introduction to basic methodology, principles, and terms of contemporary psychology. Stresses a scientific analysis of behavior. Direct experience with research psychology or its equivalent may be required.
- 202. Honors Principles of Psychology (3).** An introduction to the methodology, principles and terms of contemporary psychology, with emphasis on the scientific investigation of behavior. Direct experience with research psychology or its equivalent may be required.
- 205. Orientation to Psychology (1).** An introduction to what psychologists do, what jobs are available in psychology, and how students should proceed through a major in psychology. For students considering a psychology major or who have declared a psychology major. (*Grade of Pass/Fail*)
- 220. Principles of Behavior Analysis (3).** *Prerequisite: "C" or better in PSY 201 or 202. Suggested corequisite: PSY 221.* An introduction to principles of behavior analysis stressing experimental design, observing and recording techniques, and the basic principles of operant conditioning, including schedules of reinforcement.

221. **Behavior Analysis Lab (1).** *Prerequisite: "C" or better in PSY 201 or 202. Corequisite or prerequisite: PSY 220.* Stresses the skills involved in specifying, observing, and consequenting behavior, and teaches the standard techniques of behavioral laboratories.
222. **Human Development (3).** Study of mental, physical, social, and emotional life of the individual throughout the life span. Special attention given to the first two decades of life. Note: PSY 222 counts as an Area V elective for PSY majors and minors.
301. **Research Methods and Statistics (4).** *Prerequisite: "C" or better in PSY 201 or 202. Prerequisites or corequisites: MS 204 or MS 302, PSY 220, PSY 221.* Introduction to scientific research methodology and statistics as applied to psychological research.
323. **Adult Development and Aging (3).** *Prerequisite: "C" or better in PSY 201 or 202.* Introduction to methodological, empirical, and theoretical perspectives of psychological development during adulthood. Topics include physical and cognitive development, personality, social development, and the role of work.
327. **Child and Adolescent Development (3).** *Prerequisite: PSY 221.* The study of human development from prenatal development to adolescence. Topics include psychological theories of physical and motor development, cognitive development, social development, and emotional development, as well as the application of these theories to everyday life.
330. **Abnormal Psychology (3).** *Prerequisite: "C" or better in PSY 201 or 202.* Examines the major forms of and theoretical explanations for behavior patterns which have been culturally defined as deviant or psychologically abnormal.
331. **Abnormal Child Psychology (3).** *Prerequisite: "C" or better in PSY 201 or 202.* Integration of theory and empirical research on a wide range of child and adolescent disorders. The course provides a comprehensive coverage of the biological, psychological, and social-contextual determinants of childhood problems. Specific disorders will be presented, describing their characteristics, developmental course, and epidemiology; outlining current diagnostic and classification schemes; identifying risk and protective factors; and discussing implications for prevention and treatment. (Not open to students with credit for PSY 412.)
336. **Personality and Individual Differences (3).** *Prerequisite: PSY 301.* Overview of the major theories, approaches to measuring personality variables, research findings, and applications in the scientific study of personality. (Not open to students with credit for PSY 335.)
337. **Psychology of Gender (3).** Studies of the origin of sex differences within three theoretical models: biological, psychological, and sociological. Examination of the nature of these differences emphasizing current research in areas such as androgyny, sex typing, sexuality, employment, tokenism, and marriage.
350. **Social Psychology (3).** *Prerequisite: PSY 301.* The study of how others influence an individual's behaviors, thoughts, and emotions. Topics include social influence, persuasion, attitude-behavior consistency, prosocial behavior, aggression, causal attribution, and affiliation.
352. **Human Sexuality (3).** Study of the psychological, physiological, social, and behavioral aspects of human sexuality. Topics include sexual orientation, sexual anatomy, contraception, sexually transmitted diseases, pregnancy/birth, and sexuality through the life cycle.
354. **Introduction to Applied Behavior Analysis (3).** *Prerequisites: PSY 220 and 221.* The application of behavioral principles and behavior assessment, including the measurement of human behavior, experimental design, and data analysis and interpretation. (Not open to students with credit for PSY 362.)
355. **Positive Psychology (3).** *Prerequisite: "C" or better in PSY 201 or 202.* Overview of diverse topics, such as happiness, relationships, spirituality, aesthetic appreciation, work satisfaction, self-control, integrity/ethics. Self-assessment and critical thinking are emphasized.
364. **Behavior-Change Procedures in Applied Behavior Analysis (3).** *Prerequisite: PSY 354.* Discussion of fundamental elements of behavior change and specific behavior change procedures, including those used to teach and maintain appropriate behaviors, eliminate inappropriate behaviors, and develop comprehensive behavioral intervention programs.
366. **Cognitive Psychology (3).** *Prerequisite: PSY 301.* This course reviews processes, such as memory, concept formation, reasoning, critical thinking, problem solving, and applications of cognitive science. (Not open to students with credit for PSY 415.)
383. **Biological Psychology (3).** *Prerequisite: PSY 301.* Study of the physiological structures and mechanisms that mediate between environmental events and behavior. (Not open to students with credit for PSY 400.)
384. **Introduction to Sensation and Perception (3).** *Prerequisite: PSY 301.* The course provides an up-to-date review of sensory and perceptual processes integrating basic physiology with psychology. (Not open to students with credit for PSY 423.)
399. **Study Tour (3).** *Prerequisite: Permission of instructor.* Topics, excursions, and requirements determined by department. May be duplicated for credit; however, only three (3) credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.
401. **Professional Development (3).** *Prerequisite: "C" or better in PSY 201 or 202.* How to choose a career or graduate program in psychology or related field, evaluate and improve your credentials, and prepare to apply. Recommended for junior-level students. (Not open to students with credit for PSY 305.)

- 403. Psychological Testing (3).** *Prerequisite: PSY 301.* Introduction to the basic concepts, principles, and methods of psychological assessment centered on historical foundations, test construction, and evaluation (psychometrics), and ethical issues pertaining to the use of psychological tests. The application of commonly used types of intelligence, personality, scholastic, clinical, and vocational tests are also considered.
- 404. Data-Based Decision Making in Applied Behavior Analysis (3).** *Prerequisite: PSY 354.* Examination of single-subject experimental design and professional skills pertinent to research and practice in applied behavior analysis.
- 411. Topics in Social Psychology (3).** *Prerequisite: PSY 301.* Intensively explores one or two topics within social psychology. Sample topics include emotion, empathy and altruism, happiness, judgment and decision-making, social psychology in film, social influence, and prejudice and stereotyping.
- 425. Health Psychology (3).** *Prerequisite: PSY 301.* The use of psychological techniques within medical settings for problems such as hypertension, pain, asthma, eating disorders, and smoking.
- 433. Cultural Psychology (3).** *Prerequisite: PSY 301.* Beginning with an examination of theoretical definitions of culture, the course covers a broad range of theories and research findings regarding cultural influences on human behavior and cognitive processes.
- 436. Drugs, Society, and Human Behavior (3).** *Prerequisite: "C" or better in PSY 201 or 202.* Provides an overview of current drug-related issues, including societal trends, basic pharmacology of drug action, legislation, treatment, and prevention.
- 444. Conditioning and Learning (3).** *Prerequisite: "C" or better in PSY 220, PSY 221.* A review of research, investigating the basic parameters of conditioning and its theoretical implications. Topics covered will include operant and respondent conditioning.
- 446. Introduction to Political Psychology (3).** *Prerequisite: "C" or better in PSY 201 or 202.* This course is an overview of the interdisciplinary connection between political and psychological processes. The incorporation of political science and psychology may help in the understanding of why leaders behave as they do and why citizens support or oppose political leaders. The course will include social cognition and decision making, personality and identity, and environmental factors that affect individual political ideologies. (*PSY 446 is cross-listed with PSC 455, but only one course may be taken for credit.*)
- 447, 448. Psychology Seminar (3) (3).** *Prerequisite: Permission of instructor.* Examines relevant research and conceptual issues related to varying topics in psychology, such as self-control, family violence, and evolutionary psychology. When offered, a more detailed description will be available on the department website.
- 450. History and Systems of Psychology (4).** *Prerequisites: "C" or better in PSY 301 and senior standing.* Examines the historical evolution of modern psychology and the conceptual systems that have been developed. This course serves as the psychology capstone course, and the Major Field Test in Psychology is required.
- 460, 461. Instructional Practicum (3) (3).** *Prerequisite: Permission of instructor.* Practice of behavioral techniques in an instructional setting. Only students with exceptional performance in psychology classes will be considered for this practicum.
- 480, 481. Community Practicum (3) (3).** *Prerequisite: Permission of instructor.* Practice of psychological techniques in community organizations, such as mental health clinics, juvenile detention centers, etc. (*Grade of Pass/Fail*)
- 485, 486. Applied Behavior Analysis Practicum (3) (3).** *Prerequisites: PSY 220, PSY 221, and permission of instructor.* Practice of behavior analysis principles in applied settings, such as developmental centers and organizations.
- 490, 491. Individual Research (3) (3).** *Prerequisites: PSY 301 and permission of instructor.* Students will conduct supervised research projects chosen in coordination with their supervisor.
- 498, 499. Honors Thesis (3) (3).** *Prerequisites: PSY 301, permission of thesis supervisor, and senior standing.* Completion of an original research project developed in conjunction with a psychology faculty member.

PLAN OF STUDY
BACHELOR OF SCIENCE
MAJOR: PSYCHOLOGY

Note: This is only a suggested plan of study. Variations may occur due to individual circumstances.

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall	Spring
EH 1013	EH 1023
EH 1413	Social/ Behavioral Science3
HY 101 or 201.....3	History Sequence3
PSY 201/202, Principles of Psychology3	MS 108 or higher3
PSY 205, Orientation to Psychology1	PSY 220, Prin. Beh. Analysis3
STU 101.....0	PSY 221, Beh. Analysis Lab1
(MS 100, if required)	
13	16

SOPHOMORE YEAR

Fall	Spring
EH Literature3	EH Literature3
Natural Science sequence4	Natural Science sequence4
MS 2043	PSY 301, Research Methods & Stats.....4
Social/ Behavioral Science.....3	Minor/ electives.....3
CS 201 or higher3	
16	14

JUNIOR YEAR

Fall	Spring
Fine Arts3	PSY electives 300+6
PSY electives 300+6	Minor/ electives9
Minor/ electives6	
15	15

SENIOR YEAR

Fall	Spring
PSY electives 300+9	PSY 450, History & Systems of PSY4
Minor/ electives6	PSY elective 300+3
	Minor/ electives..... 9
15	16

TOTAL HOURS: 120

DEPARTMENT OF SOCIOLOGY (SY)
AND SOCIAL WORK (SW)

The BSW Program is accredited by the Council on Social Work Education.

307 BREWER HALL

Department Head, BSW Program Director: Maureen Newton

Professors: Deshotels, Newton, Stewart

Associate Professor: Rider

Assistant Professors: Donley, Lockett, Rider, Ross, Trask

Instructors: Adams, Barclift, Snider, Whorton

The goals of Social Work are to provide knowledge of human behavior, the values and ethics of the social work profession, and the problem-solving and interpersonal skills necessary for generalist social work practice in a variety of settings. The goals of Sociology are to acquaint the student with the nature of social behavior, social relations, culture, the structure of society, and the tensions and conflicts produced by changes, expanding technologies, and knowledge.

BACHELOR OF SOCIAL WORK (B.S.W.). Students completing the BSW degree will be prepared for entry-level generalist social work practice. The BSW degree requires 128 hours. The GENERAL STUDIES REQUIREMENTS FOR THE BSW DEGREE total 64 hours: **Area I. Written Composition**—EH 101 and EH 102 = 6 hours. **Area II. Humanities and Fine Arts**—2 literature courses (EH 201, 202, 203, 204, 219, 220, 231 or 232); EH 141; and one course from the arts (ART 202, MU 233, FL 101, or DR 242) = 12 hours. **Area III. Natural Sciences and Mathematics**—BY 101, 102, 103, and 104, and MS 108, 110 or 112 = 11 hours. **Area IV. History, Social, and Behavioral Sciences**—HY 101 and HY 102 or HY 201 and HY 202; PSY 201; and SY 221 = 12 hours. **Area V. Pre-professional, Major, and Elective Courses**—EC 221 or 222; PSC 100; MS 204; CS 201; one course from the following (FCS 215, HPE 212, MSC 115, or HPE 109); and 8 hours of general electives = 23 hours.

The requirements for a Bachelor of Social Work degree include 54 semester hours of social work courses. The following 39 hours of social work courses are required: SW 330, 332, 350, 360, 380, 381, 390, 391, 448, 449, and 450. Introduction to Social Work (SW 330) is a prerequisite for all social work classes except SW 370 and 371. Students will get their remaining 15 hours in social work by taking five social work elective courses from among the following: SW 333, 334, 335, 336, 338, 339, 340, 343, 365, 370, 371, 392, 395, 399, 441, 442, and 443. Students working on a BSW degree are not required to have a minor in another academic discipline. Social Work majors must earn a minimum of “C” or better in each of the social work courses.

Admission to the BSW Program requires passage of at least 30 semester hours (including MS 108, 110 or 112 and MS 204), a 2.25 overall GPA, a grade of “C” or better in SW 330 (Introduction to Social Work), successful completion of SW 390, and a passing score on the English Competency Exam. *Applications for admission to the Bachelor of Social Work Degree Program* are distributed to students enrolled in SW 390. This application should be submitted to the Program secretary upon completion of SW 390. **(No student can take SW 391 without admission to the BSW Program.)** Students denied admission are encouraged to complete the application as soon as they meet the requirements and return it to the secretary for the BSW Program in Room 309 Brewer Hall. **Students must have been formally accepted to the Social Work Program before taking SW 391, 448, 449, and 450.** Students must maintain a 2.25 GPA in Social Work and a 2.25 GPA overall in order to graduate. See the BSW Program Web Page at <http://www.jsu.edu/socialwork/index.html> for complete information about the BSW Program.

MAJOR IN SOCIOLOGY (B.A. or B.S.). The requirements for a major in Sociology are a total of 120 semester hours, which includes meeting all University and program general education requirements, including 30 semester hours of Sociology coursework, and either a second major or minor. Of the 30 hours required for the Sociology degree, 15 hours are dictated by the program, while the additional 15 hours are Sociology electives. The 15 hours of required Sociology courses include: SY 221 or 222, 301, 313, 427 or 428, and 499. The additional 15 hours will be selected from only Sociology courses and must be at the 300 or higher level. Mathematic requirements include MS 108 or higher and MS 204. Sociology Majors must earn a minimum of “C” or better in each of the major and minor courses.

Introduction to Sociology (SY 221 or SY 222) is a prerequisite for all Sociology courses. SY 427, 428, and 499 have additional prerequisites. Sociological Methods (SY 301) and Basic Statistics (MS 204) should be taken prior to Sociology 300+ electives. Students are urged to consult with their academic advisor who will be helpful in choosing electives. Students should balance breadth and depth as best suits their own needs and future plans.

SOCIOLOGY MINOR. The requirements for a minor in Sociology are a minimum of 18 semester hours which must include SY 221 or 222 and 301. The remaining 12 hours are electives which must be chosen from courses in the Sociology listing.

GERONTOLOGY MINOR. This minor provides an interdisciplinary approach to the study of aging in America. It prepares students to understand the problems, prospects, and policy issues involved in aging. The requirements for a minor in Gerontology are 18 semester hours which must include SY 370 or SW 370 and SY 340 or SW 371. The remaining 12 hours are electives which must be chosen from the following courses—SY 360, SY 364, SY 366, SY 441, SY 442, SY 443, SY 452, SY 495, SW 334, SW 335, SW 380, SW 441, HPE 420, REC 311, and PSY 323. There are no prerequisites for Gerontology minors.

SOCIAL WORK (SW)
DESCRIPTION OF COURSES

300. **Interpersonal Skills and Human Relations (3).** This course examines interpersonal skills and helping relationships. The course is designed to help students better understand themselves and their personal and professional relationships. Critical thinking skills, problem-solving techniques and conflict resolution tactics are emphasized.
330. **Introduction to Social Work (3).** Designed to assist the student who is considering social work as a career. Fundamental concepts of social work, client systems, fields of practice, history, and the current status of social work are presented. Students are required to complete 30 hours of volunteer work in fulfilling course requirements.
332. **Social Policy and Services (3).** *Prerequisites: SW 330, SW 380, and SW 390.* Current social policies and programs are presented and analyzed. Information on influencing policy formulation in the administrative, legislative, and judicial arenas is emphasized.
333. **Family and Child Welfare Services I (3).** *Prerequisite: SW 330.* An exploration of the history of child welfare service in this country, as well as current trends in this field of social work. Foster care, adoption, and protective services will be viewed in a historical perspective, ending with an evaluation of current policy and future implications for social work practice in child welfare areas.
334. **Service Learning (3).** *Prerequisite: SW 330.* Current trends and the historical development of service learning in social services are discussed. Developing, managing, and evaluating service learning programs are reviewed. Students are required to complete 40 volunteer hours in a social service organization.
335. **Social Work in Health Care (3).** *Prerequisite: SW 330.* This course explores social work practice in various health care settings, such as hospitals, health maintenance organizations, long-term care facilities, and home health care agencies. The psychosocial aspects of working with clients (patients) and the range of intervention strategies available to social work practitioners will be discussed.
336. **Crisis Intervention (3).** *Prerequisite: SW 330.* This course provides content in crisis theory and intervention strategies. May be used as an elective in social work.
338. **Social Work and Mental Health (3).** *Prerequisite: SW 330.* This course is designed to teach the identification, symptomology, and current trends in the treatment of mental illness. Emphasis will be placed on the diagnosis and treatment of dysfunctional cognitive, emotive, and behavioral disorders.
339. **Communication in Social Work Practice (3).** *Prerequisite: SW 330.* An exploration of the historical development and current trends in both verbal and written forms of social work communication. Students will gain understanding in the development of effective presentations, psychosocial assessments, memorandums, proposals, progress notes, agendas, minutes, and other types of communication needed to be effective social work practitioners.
340. **Social Work and Substance Abuse (3).** *Prerequisite: SW 330.* This course presents the current trends related to the use, abuse, and addiction of alcohol and drugs. Treatment options and legal ramifications will be explored.
343. **Family and Child Welfare Services II (3).** *Prerequisite: SW 330.* This course examines contemporary theory, practices, and services in the field of child welfare and social services for children and families. Emphasis is placed on supportive, supplementary, and substitute care services in child welfare, including skills and knowledge most helpful in case management with children and families.
350. **Social Work Research (3).** *Prerequisites: SW 330 and CS 201.* This course will focus on the application of theories and skills of social research to social work practice with individuals, groups, organizations, and communities. It is recommended this course be taken soon after SW 330. Students can use the skills and knowledge developed in this course to better complete the research assignments in the advanced social work courses. **(Social Work Majors only.)**
360. **Cultural Diversity and Social Justice (3).** *Prerequisite: SW 330.* Content is presented that promotes understanding, affirmation, and respect for people from diverse backgrounds. Content focuses on how prejudice, discrimination, and exclusion affect the experiences of members of diverse groups.
365. **Perspectives on Poverty (3).** This course explores the heritage of poverty in the United States and the implications of the myths, facts, and social policies that influence and affect individuals, families, and communities. The course emphasizes the complex causes and prevalence of poverty and explores poverty research and models to eradicate or prevent poverty.
370. **Aging and Human Development (3).** An examination of aging in the United States. Primarily a sociological perspective, but deals with the psychological and biological aspects of aging, as well as contemporary demographic, economic, and political trends. **(SW 370 is cross-listed with SY 370, but only one course can be counted for credit.)**
371. **Perspectives on Death and Dying (3).** An examination of the attitudes of differing cultures and subcultures toward death, which encourages students to supplement relevant readings by discussing personal attitudes toward death and dying. Current research in this topic will be explored by lectures, films, and reading. By better understanding death and dying, students can explore in this course opportunities for growth and for improving the quality of life. **(SW 371 is cross-listed with SY 340, but only one course can be counted for credit.)**

380. **Human Behavior and Social Environment I (3).** *Prerequisites:* BY 101, 102, 103 and 104. Information about the stages of the human life cycle from birth through old age is presented. Attention is given to the biological and social factors of human development. SW 380 may be taken concurrently with SW 330. **(Social Work Majors only.)**
381. **Human Behavior and Social Environment II (3).** *Prerequisites:* SW 330 and SW 380. The focus is on the following social systems: family, group, organization, community, culture, and society. Human behavior within these systems and the behavior of these systems as entities are studied. **(Social Work Majors only.)**
390. **Social Work Practice I (3).** *Prerequisite:* SW 330. Generalist social work practice, ethics and values of the social work profession, and basic helping skills will be studied. Students will begin to acquire generalist social work practice skills and an identity with the social work profession. **(Social Work Majors only.)**
391. **Social Work Practice II (3).** *Prerequisites:* SW 330 and SW 390, and admission to the BSW Program. Generalist practice skills will be developed for work with families and groups. Family assessments and interventions and group practice issues will be reviewed.
392. **Cognitive Theories in Social Work Practice (3).** *Prerequisite:* SW 330. The process of how emotions work and how humans can learn to behave more rationally in dealing with anger, anxiety, and depression will be reviewed.
395. **Case Management (3).** *Prerequisite:* SW 330. This course will assist students to develop skills in assessment, consulting, teaching, modeling, and advocacy to enhance the optimum social functioning of clients. Attention will be paid to the ways in which social workers can utilize practice models to pursue policies, services, and resources in a variety of social service settings.
399. **Study Tour (3).** Topics, excursions, and requirements determined by department. May be duplicated for credit; however, only three (3) credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.
- 441, 442, 443. **Independent Study (3) (3) (3).** *Prerequisites:* Approval of instructor and department head required. Students with advanced standing explore areas of special interest with individualized instruction from a faculty member. **(Social Work Majors only.)**
- 445, 446, 447. **Special Topics in Social Work (1) (1) (1).** *Prerequisites:* SW 330 and permission from instructor and department head. This course focuses upon a selected area of social work practice and/or education. The course capitalizes on a timely topic, research activity, or experimental alternative to existing courses, etc. Directed study. **(Social Work majors only)**
448. **Social Work Practice III (3).** *Prerequisites:* All other courses for the BSW degree (except SW 449 and SW 450) and admission to Field Instruction Placement. Generalist practice knowledge, values, and skills will be studied and developed for work with and in organizations, communities, and large social systems. Must be taken concurrently with SW 449 and SW 450.
449. **Field Instruction Placement (9).** *Prerequisites:* All other courses for the BSW degree (except SW 448 and SW 450) and admission to Field Instruction Placement. Internship in a social service agency for 450 hours of supervised practice. Must be taken concurrently with SW 448 and SW 450.
450. **Field Instruction Seminar (3).** *Prerequisites:* All other courses for the BSW degree (except SW 448 and SW 449) and admission to Field Instruction Placement. Class meets once a week. Must be taken concurrently with SW 448 and SW 449.

PLAN OF STUDY

BACHELOR OF SOCIAL WORK DEGREE (BSW)

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101	3	EH 102	3
HY 101 or HY 201 (choose a sequence).....	3	EH 141, Oral Communication.....	3
BY 101	3	HY 102 or HY 202 (complete sequence)	3
BY 103	1	BY 102	3
ART 202, MU 233, FL 101 or DR 242 (choose one) ..	3	BY 104	1
SY 221, Intro to Sociology	3	PSY 201, Principles of Psychology	3
STU 101.....	0		
	<hr/> 16		<hr/> 16

SOPHOMORE YEAR

Fall	Spring
Literature3	Literature3
MS 108, 110 or 112 (choose one)3	MS 204, Basic Statistics.....3
CS 201, Introduction to Information Technology ...3	General Electives5
PSC 100, Introduction to American Government ...3	EC 221 or 222, Micro or Macroeconomics (choose one).....3
FCS 215, HPE 212, MSC 115, or HPE 109 (choose one)3	SW 330, Introduction to Social Work.....3
15	17

JUNIOR YEAR

Fall	Spring
SW Elective 3	SW 381, HBSE II.....3
SW 360, Cultural Diversity3	SW 390, Pract. I.....3
SW 380, HBSE I 3	SW Electives6
General Electives4	General Elective6
SW 350, Research3	
16	18

SENIOR YEAR

Fall	Spring
SW 332, Social Policy 3	Final Semester
SW 391, Practice II 3	SW 448, Practice III3
SW Electives..... 6	SW 449, Field Placement9
General Elective 3	SW 450, Field Seminar3
15	15

TOTAL HOURS: 128 for the BSW Degree

SOCIOLOGY (SY) DESCRIPTION OF COURSES

- 221. Introduction to Sociology (3).** Basic concepts, principles, and methods of sociological analysis are examined. Subject areas include culture, socialization, groups, communities, institutions, social inequality, and social change.
- 222. Honors Introduction to Sociology (3).** Basic concepts, principles, and methods of sociological analysis are examined. Writing intensive, the primary goal is to teach students how to critically evaluate the world around them and their place in it using the sociological imagination.
- 223. Social Problems (3).** *Prerequisite: SY 221 or 222.* American culture and society, including analytical treatment of problems of crime, urban living, mass media, mental illness, education, race, population, civil liberties, and others.
- 301. Sociological Methods (3).** *Prerequisite: SY 221 or 222.* An introduction to the theory, design, collection, and analysis of data in sociology with particular focus given to various techniques by which sociological data are examined.
- 303. Computers and Data Analysis (3).** *Prerequisite: SY 301 or MS 204 or CS 201.* Computers are used in the analysis of survey data. Commonly used software packages, such as SPSS, are employed.
- 304. Social Statistics (3).** *Prerequisite: MS 100 or higher.* An introduction to the use of statistics in the social sciences, with an examination of measures of association and dispersion, scaling, probability, and tests of significance.
- 308. American Society and Culture (3).** *Prerequisite: SY 221 or 222.* A sociological analysis of American society and culture, this course will examine the basic institutions in American society, such as family, education, religion, politics, and economy. It analyzes the roll of organizations in society and discusses the origin of American culture and the nature of popular culture.
- 309. Sociology of Disability (3).** *Prerequisite: SY 221 or 222.* This course addresses the human responses to and facilitation of the concept of disability. The emphasis will be to connect the relationship among theory, epistemology, power relationships, and the social construction of disability. When the course is over students have a deeper understanding of social theory, the history of disabilities, and also how the concept of disabilities impacts lives today.
- 310. Marriage and the Family (3).** *Prerequisite: SY 221 or 222.* Family structures; functions and dysfunctions of the family; intimate relationships; sexual behaviors and attitudes; the differences between the sexes; dating, courting, and mate selection; endogamy and exogamy; family life; children; and alternatives to traditional marriage.

313. **Social Psychology (3).** *Prerequisite: SY 221 or 222.* A survey of traditional and contemporary theories in social psychology regarding their applicability to everyday life, including such approaches as cognitive theory, reinforcement theory, symbolic interaction, and humanistic theories.
315. **Deviant Behavior (3).** *Prerequisite: SY 221 or 222.* Introduction to the social and cultural factors related to human deviance. Special attention is given to the study of various theories of deviant behavior.
320. **Criminology (3).** *Prerequisite: SY 221 or 222.* This course is an introduction to the study of criminology. Its focus is on the nature of crime, the nature and development of law, the criminal justice system, and theories of crime.
322. **Juvenile Delinquency (3).** *Prerequisite: SY 221 or 222.* Popular misconceptions; delinquency trends; police and juveniles; programs of prevention; detention centers; juvenile courts, probation; theories of causation; corrections.
324. **Social Stratification (3).** *Prerequisite: SY 221 or 222.* Causes, characteristics, and consequences of inequality are examined. Differences in wealth, power, and prestige are considered in the community, society, and between societies.
325. **Sociology of Organizations (3).** *Prerequisite: SY 221 or 222.* Simple and complex organizations are examined regarding their structures, functions, conflicts, and changes. Major theories are presented along with empirical studies of organizational behavior.
326. **Sociology of Education (3).** *Prerequisite: SY 221 or 222.* The school is examined as a major social institution and socializing agent in American society. The formal and informal structure of the school, its influence upon the responses to the wider community institutions, and primary functions of the school system are examined. Teacher-student relationships, the classroom as a social system, and equality of educational opportunity will be considered.
340. **Perspectives on Death and Dying (3).** *Prerequisite: SY 221 or 222.* An examination of the attitudes of differing cultures and subcultures toward death, which encourages students to supplement relevant readings by discussing personal attitudes toward death and dying. Current research in this topic will be explored by lectures, films, and readings. By better understanding death and dying, students can explore in this course opportunities for growth and for improving the quality of life. **(SY 340 is cross-listed with SW 371, but only one course can be counted for credit.)**
350. **Sociology of Disasters (3).** *Prerequisite: SY 221 or 222.* This course applies a sociological perspective to trace the study of disasters, emphasizing how social inequalities constitute varying degrees of risk and destruction throughout the pre, impact, and post disaster stages. This course examines social structure and social process as they interact with disaster conditions.
356. **Collective Behavior and Social Movements (3).** *Prerequisite: SY 221 or 222.* Crowds, mass behavior, fashions and fads, reform movements and revolutions are examined. Current examples are used to illustrate models and theories.
360. **Ethnic and Minority Group Relations (3).** *Prerequisite: SY 221 or 222.* This course focuses on relations between majorities and minorities, the conditions of minority life, and the structural, cultural, and interpersonal barriers that affect minorities.
362. **Global Immigration Patterns and Trends (3).** *Prerequisite: SY 221 or 222.* This course examines structural and individual immigration patterns and trends between country of origins and destination countries. The course examines how economic, political, and social forces lead to push and pull factors in both voluntary and forced migration routes. Course topics include illegal immigration, brain drain, refugees/asylum seekers, transnational migrants, etc.
364. **Medicine and Society (3).** *Prerequisite: SY 221 or 222.* This course is designed to provide a brief introduction to the major themes of and current trends concerning the social causes and consequences of health and illness. Topics of interest include exploration of the social facets of health and disease; the social functions of health organizations; and the social behaviors of health personnel and consumers.
365. **Drugs and Society (3).** *Prerequisite: SY 221 or 222.* This course presents a sociological framework for studying the ways in which societies both encourage and restrict the use of psychoactive drugs. The course will investigate the ways we think about alcohol, tobacco, prescription, and illegal drugs.
366. **Sociology of Religion (3).** *Prerequisite: SY 221 or 222.* The study of religion in its social and cultural contexts. Comparatively examines how religious beliefs, rituals, and practices exist in close relation to other aspects of society and culture, giving to human existence coherence and purpose.
367. **Sociology of Sexualities (3).** *Prerequisite: SY 221 or 222.* A study of how sexuality is perceived, defined, and experienced in the context of society. Topics include social norms, attitudes and beliefs about sexuality, public and private policies, as well as practices surrounding sexuality, and how sexuality is related to social institutions.
368. **Theories of Gender (3).** *Prerequisite: SY 221 or 222.* The course will examine gender theories about why women and men are unequal. It will also explore gender politics, the activities and strategies for remedying gender inequality. The course builds on and makes links to SY 324 (Social Stratification), SY 360 (Ethnic and Minority Group Relations), and SY 427 (Sociological Theory).
370. **Aging and Human Development (3).** An examination of aging in the United States. Primarily a sociological perspective but deals with the psychological and biological aspects of aging, as well as contemporary demographic, economic, and political trends. **(SY 370 is cross-listed with SW 370, but only one course can be counted for credit.)**

- 399. Study Tour (3).** Topics, excursions, and requirements determined by department. May be duplicated for credit; however, only three (3) credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.
- 410. Sociology of Science (3).** *Prerequisite: SY 221 or 222.* This course examines the social institutions that support and constitute scientific activities, how people construct scientific knowledge through social interactions, and the nature and consequences of the relationships between science and industry, politics, religion and gender.
- 427. Classical Social Theory (3).** *Prerequisites: SY 221 or 222, plus 12 additional hours of sociology courses, or permission of instructor.* An examination of the major trends in social thought up to WWII. (It is recommended that both SY 427 and SY 428 be taken for those interested in attending graduate school in sociology.)
- 428. Contemporary Social Theory (3).** *Prerequisites: SY 221 or 222, plus 12 additional hours of sociology courses, or permission of instructor.* An examination of the major trends in social thought after WWII. (It is recommended that both SY 427 and SY 428 be taken for those interested in attending graduate school in sociology.)
- 441, 442, 443. Independent Study (3) (3) (3).** *Prerequisites: Students seeking admission must have advanced standing and secure approval of instructor and head of department.* An opportunity for the student with advanced standing to explore areas of special interest.
- 452. Aging Practicum (3).** *Prerequisite: SY 370.* Field observation and experiences in agencies or organizations engaged in planning or administering programs for older people or providing direct services to older people. Seminar analysis of these experiences.
- 460. Sociology Internship (3).** *Prerequisites: Minimum cumulative GPA of 3.0; a minimum completion of 12 hours of sociology course work at Jacksonville State University; and instructor approval required.* This course provides students the opportunity to gain work/career experience in service/learning or business/corporate settings.
- 480, 481, 482. Advanced Seminar in Sociology (3) (3) (3).** *Prerequisites: SY 221 or 222, advanced standing, and instructor approval required.* An examination of current issues in sociology. The content of the course will vary each semester.
- 495. Advanced Seminar in Aging (3).** *Prerequisites: SY 370, advanced standing, and instructor approval required.* An examination of current issues in aging.
- 499. Senior Sociology Seminar (3).** *Prerequisites: SY 301, 427, senior status, and Sociology major.* A summary and reintegration of fundamental concepts in sociology. Career paths are also discussed.

PLAN OF STUDY

REQUIREMENTS FOR BACHELOR OF ARTS/BACHELOR OF SCIENCE MAJOR: SOCIOLOGY

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall	Spring
EH Comp 1013	EH Comp 1023
HY 101 or 201*3	EH 141, Oral Communication.....3
Natural Science**4	HY 102 or 202*3
Fine Arts3	Natural Science**4
SY 221 or 222, Intro to Sociology3	SY 223, Social Problems3
STU 101.....0	
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SOPHOMORE YEAR

Fall	Spring
EH 201-204, or 219, 220, 231, 2323	EH 201-204, or 219, 220, 231, 2323
MS 108 or higher3	MS 204, Basic Statistics3
Social/Behavioral Science3	CS 2013
GY 2203	300+ Electives3
SY 300+ Elective3	SY 301, Sociological Methods3
<hr/> 15	<hr/> 15

JUNIOR YEAR

Fall		Spring	
SY 300+ Electives	6	SY 300+ Elective	3
300+ Electives	3	Minor/ Electives 300+	6
AN 224	3	Minor/ Electives 300+	6
PSC 100	3		
	<hr/>		<hr/>
	15		15

SENIOR YEAR

Fall		Spring	
SY 300+ Elective	3	SY 499, Senior Seminar	3
SY 427 or 428, Social Theory	3	SY Elective 300+	3
Minor/ Electives 300+	9	Minor/ Electives 300+	7
	<hr/>		<hr/>
	15		13

TOTAL HOURS: 120

* A sequence of either HY 101 and 102 or HY 201 and 202 must be taken.

** See advisor.

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

Dean: William T. Fielding

Accredited by AACSB International

The Association to Advance Collegiate Schools of Business

MISSION STATEMENT

The mission of the College of Commerce and Business Administration (CCBA) is to educate a diverse undergraduate and graduate student body for successful employment and managerial careers in a dynamic global environment, to be productive and ethical citizens, and to be prepared for advanced studies, as well as lifelong learning.

The CCBA carries out its mission through its commitment to the following four core values:

Teaching

We seek to provide our students with a learning-centered environment through which they become literate, articulate, and broadly educated individuals, who are knowledgeable in fundamental economic principles, the business disciplines, and the impact of global forces on domestic affairs. The curricula prepare baccalaureate and MBA graduates to be literate with information technology, ethically and globally aware, as well as analytical decision-makers who possess fully developed oral, written, and interpersonal communication skills. Graduates should be able to adapt to rapidly changing technologies, and to adapt to a diverse work-place environment. The faculty seek to be recognized as excellent teachers and scholars, dedicated first and foremost to the development of students, through quality teaching, advising, and mentoring.

Intellectual Contributions

The CCBA values basic research, applied research, and instructional development activities of the faculty, with primary focus on applied scholarship (contribution to practice) and instructional development (learning and pedagogical research). The faculty believe that teaching and scholarly activity are interdependent and that research enhances faculty effectiveness in the classroom and provides students with state-of-the-art business knowledge.

External Interaction

The CCBA seeks to take a leadership role in the economic development of the State of Alabama, specifically its Northeast region. The CCBA promotes excellence in service activities consistent with academic and professional strengths of faculty and staff. Faculty and staff are expected to be a resource for the economic development of the State and region by extending their knowledge, skills, and values to society. Interaction with external constituents is fostered through a variety of efforts to include the Center for Economic Development, the Center for Business and Free Enterprise Education, guest speakers, executives-in-residence, and advising groups.

Continuous Improvement

The College strives to provide quality undergraduate and graduate management education through traditional as well as distance delivery. The faculty, staff, and administration of the CCBA are committed to continuously improving the quality of our academic programs, our student support activities, and our service to the local and regional community.

From these **core values**, the College has derived the following guiding principles:

GUIDING PRINCIPLES

- Emphasizing effective teaching;
- Instilling ethical development, integrity, and social responsibility in students;
- Recognizing the contribution of others through intellectual and external interactions, collaboration, freedom of thought, and freedom of expression; and
- Continuously improving academic programs, student support activities, and service to the community.

VISION STATEMENT

The College aspires to be recognized as one of the premier public regional undergraduate schools of business in the Southeast.

PROGRAMS OF STUDY

This College offers the 120 hour Bachelor of Science degree with majors in the following areas of study: Accounting, Business Economics, Finance, Management (concentrations are available in Human Resource Management and Information Management/E-Commerce), and Marketing. Also, a 120-hour Bachelor of Arts degree with a major in Economics and approved minor which, among others, may include Urban Economics/Real Estate Development is an option. A major in Economics with a concentration in International Business is also available. The CCBA offers minors in accounting, business economics, finance, business administration, information management/ecommerce, international business, management, marketing, and urban economics/real estate development.

UPPER DIVISION ASSESSMENT POLICY

In addition to meeting the general admission requirements of the University, students wishing to pursue a degree from the College of Commerce and Business Administration must adhere to the following:

1. All Bachelor of Science students enrolling in the College will list their major as Undecided-MGMT until the completion of all lower division (Freshman and Sophomore) courses. Upon completion of these 60-hours with a GPA of 2.0 or higher, students will be reclassified to one of the five business degree majors (accounting, business economics, finance, management, or marketing).
2. While taking lower division courses, all students should schedule English composition and math courses each semester until such courses requirements are completed.
3. CCBA students who complete the 60 hours of lower division courses without attaining a 2.0 GPA will be required to repeat courses in order to bring the GPA up to the required 2.0. For the purposes of calculating the lower division GPA, only the highest grade for repeated courses will be included. Students not meeting the conditions to be reclassified will have one semester to bring the GPA up to the required 2.0. During this one semester, students will be allowed to continue in only nine (9) hours of CCBA core courses selected from the following upper division courses: FIN 301; EC 303, 321, or 322; MKT 301; MGT 301; CBA 350, 396, and IME 375 (all prerequisites must be adhered to). Students who attempt to enroll in classes without appropriate prerequisites will be dropped from these classes.
4. Students who begin their program at JSU will follow the program of study outlined in the JSU Catalog that is current at the time they initially enroll. However, if at some later date, a student wishes to change to a more recent Catalog, this is permissible. Students electing to change to a more recent Catalog will need to satisfy all requirements of the selected Catalog. See appropriate section of the University Catalog for Catalog Requirements and Time Limits.
5. Students transferring from any two-year college or other four-year institution must abide by all rules and regulations as specified in the appropriate JSU Catalog relative to their admission, both into the University as well as into the College of Commerce and Business Administration. Transfer students also have the right to move to a more current Catalog, if desired.
6. Students planning to transfer from other junior or senior level colleges should consult with the Student Support Services Coordinator in the College of Commerce and Business Administration for information relative to degree requirements.

ADVISING POLICY

The College of Commerce and Business Administration maintains an Advising Center in which all Freshman and Sophomore students are advised. In addition, all first-time transfer students are advised in the Center. Juniors and Seniors who have completed all lower division courses with the appropriate GPA and have been reclassified into one of the College's five majors are advised by a faculty member from that major. Advisor assignments are made at the time of reclassification into the major.

COURSE TRANSFER POLICY

Students transferring to JSU from other accredited institutions must satisfy specified course and GPA requirements prior to eligibility for upper division courses. Also, students may transfer into JSU from another institution no more than 50 percent of the business credit hours required for the business degree (CCBA Core plus major requirements). Transfer credits for 300/400 level business courses will be accepted only from AACSB-International accredited schools. This applies only to courses that are approved for transfer once a student has enrolled as a business student at Jacksonville State University and not to credits that have been completed at another institution prior to enrolling in JSU's business program. See appropriate section of the University Catalog for Transfer Student Admissions.

CCBA CORE REQUIREMENTS

The following courses are included in the CCBA Core: CBA 115, 350, 390, 396, 469; ACC 200, 210; CS 201; ST 260, 261; FIN 292, 301; EC 221, 222, 303 or 321 or 322; MKT 301; MGT 301, 305; and IME 375. A student must earn a minimum "C" average (2.00 GPA) in CCBA core subjects and CCBA core subjects taken in residence.

GRADE REQUIREMENTS FOR MAJOR AND MINOR COURSES

The student must earn a grade of at least a "C" in all major and minor courses required for degree completion.

CCBA GRADUATION REQUIREMENTS

In addition to successfully completing all course requirements for the major, students graduating with a degree from the College of Commerce and Business Administration must meet all requirements listed below for graduation:

1. Attain an overall GPA of 2.0 or higher on all courses attempted.
2. Attain a GPA of 2.0 or higher on all courses attempted at JSU.
3. Attain a GPA of 2.0 or higher on all CCBA core courses (See CCBA Core Requirements above).
4. Attain a GPA of 2.0 or higher on all CCBA core courses at JSU.
5. Earn a passing score on the English Competency Exam (ECE). Students should then submit an Application for Degree to the Student Support Services Coordinator in the CCBA Advising Center, Room 110 Merrill Building.
6. Complete the University approved Exit Exam. This is an assessment of students' accomplishments in general education and also measures reasoning skills.

7. Complete the Major Field Assessment Business Test. This is an assessment tool that is used to measure students' understanding of the basic business subject areas to include: accounting, economics, management, quantitative business analysis, finance, marketing, legal and social environment, and international studies.

Students are encouraged to incorporate internships and practical field experiences in their degree plans. These field experiences may or may not be credit bearing, but are considered integral to the learning process. Students should consult their academic advisors for prior approval and guidance.

ELIGIBILITY OF BUSINESS MAJORS TO UPPER DIVISION CCBA COURSES

In order to enroll in upper division (300 and 400 level) CCBA courses, students must have completed at least 50 semester hours to include: ACC 200, 210; EC 221, 222; MS 112, and ST 260,261. Students who are enrolled in ACC 210, EC 222 (having completed EC 221), and/or ST 261 may request special permission to enroll simultaneously in upper division CCBA core courses. This permission, if granted, will be allowed only once per student; failure to successfully complete prerequisite courses will result in the student not being allowed to enroll in additional CCBA core courses until such prerequisite course(s) have been successfully completed. In order to enroll in major courses, students must have completed all requirements for the upper division eligibility and be reclassified from Undecided-MGMT.

ELIGIBILITY OF NON-BUSINESS MAJORS TO UPPER DIVISION CCBA COURSES

Non-business majors having completed at least 50 semester hours may be eligible for upper division courses if they have met all prerequisites for each course. Others may be admitted only with the written permission of the appropriate department head.

NOTE: FIN 311, FIN 341, 343, and 344 are exceptions to the requirements stated above; these courses are open to all students. FIN 343 and 344 require FIN 341 as a prerequisite.

BACHELOR OF SCIENCE DEGREE LOWER DIVISION BUSINESS PROGRAM

FRESHMAN YEAR

1st Semester		2nd Semester	
EH Comp 101.....	3	EH Comp 102	3
Science ¹	4	Science ¹	4
MS 112, Precalculus Algebra	3	ST 260, St & QM I with Lab	4
HY ²	3	Fine Arts & Humanities ³	3
CBA 115, Business Fund/Orientation	3		
STU 101, First Year Experience.	0		
	<hr/>		<hr/>
	16		14

SOPHOMORE YEAR

1st Semester		2nd Semester	
Literature ⁴	3	Literature ⁴	3
ST 261, St. & QM II	3	PSY 201, SY 221, or AN 224 ⁵	3
FIN 292, Leg & Soc. Environment	3	EC 222, Principles of Macro Econ.....	3
EC 221, Principles of Micro Economics	3	ACC 210, Principles of Mgr Acc	3
ACC 200, Principles of Fin Accounting	3	CS 201, Intro to Info Tech	3
		or CS 230 Fund of Comp	3
	<hr/>		<hr/>
	15		15

¹ Eight credits of science, with corresponding labs, are required. Select from the following: BY 101, 102; CY 105, 106; GL 241, 242; PHS 201, 202; GY 250, 251.

² Students must select from the following classes: Art 202, DR 242, MU 233, SH 101, or FH 101.

³ Students must take HY 101 & 102 or 201 & 202. (Note: Students may take a second literature course in lieu of a second history course)

⁴ Students must select from the following literature classes: EH 201 & 202 or 203 & 204 or 219 & 220 or 231 & 232. (Note: Students may take a second history course in lieu of a second literature course)

⁵ Students may use any of the three options to satisfy this requirement; however, PSY 201 is preferred.

BACHELOR OF SCIENCE DEGREE
UPPER DIVISION PROGRAM REQUIREMENTS
ACCOUNTING, BUSINESS ECONOMICS, FINANCE,
MANAGEMENT, MARKETING MAJORS

ACCOUNTING

JUNIOR YEAR

1st Semester		2nd Semester	
ACC 301, Acc Info Systems	3	ACC 372, Income Tax	3
ACC 310, Financial Acc I	3	ACC 360, Financial Acc II	3
CS 305, Spreadsheet Modeling	3	MGT 305, Org. Behavior.	3
EH 141, Oral Communication	3	FIN 301, Business Finance	3
MGT 301 Principles of Mgt	3	MKT 301, Principles of Mkt	3
.....	3	CBA 350, Business Communication.....	3
	<hr/> 15		<hr/> 18

SENIOR YEAR

1st Semester		2nd Semester	
ACC 371, Cost Accounting	3	ACC 477, Audit	3
CBA 390, Operations Mgt	3	ACC Elective	3
EC 303, 321, or 322	3	CBA 469, Business Policy	3
IME 375, Intro to E-Commerce	3	ACC Elective	3
CBA 396, Int'l Business	3		
	<hr/> 15		<hr/> 12

CPA EXAMINATION 150 Hour Legislation

To be eligible for an initial sitting for the uniform written Certified Public Accountant Examination in Alabama, a person must have completed a total of 150 semester hours of postsecondary education, including a baccalaureate degree at an accredited college or university. This education must include a concentration in accounting, including at least 33 semester hours in certain specified accounting subject areas. In addition, the 150 semester hours must also include 3 semester hours of business law, and 27 semester hours from among specified business subject areas.

The requirements exceed the current JSU requirement for a bachelor's degree in accounting by 30 semester hours. Students who desire to be a CPA in Alabama should consult with the Associate Dean/MBA Director for assistance in planning a course of study that includes the appropriate additional undergraduate or graduate coursework.

BUSINESS ECONOMICS

JUNIOR YEAR

1st Semester		2nd Semester	
EC 321, Intermediate Micro	3	EC 322, Intermediate Macro	3
EH 141, Oral Communication	3	EC Elective ¹	3
MGT 301, Principles of Management.....	3	FIN 301, Business Finance	3
MKT 301, Principles of Marketing	3	CBA 390, Operations Mgt.....	3
CBA 396, Internat'l Business	3	MGT 305, Org Behavior	3
	<hr/> 15	CBA 350, Business Communication.....	3
			<hr/> 18

SENIOR YEAR

1st Semester		2nd Semester	
EC Electives ¹	3	EC 463, Seminar	3
EC 303, Money & Banking.....	3	EC Electives	3
General Electives ²	4	CBA 469, Bus Policy	3
IME 375, Intro to E-Commerce	3	EC 450, Internat'l Economic.....	3
	<hr/> 13	General Electives	2
			<hr/> 14

¹Six credits of Economic Electives may be taken from Finance courses numbered 300 or above.

FINANCE JUNIOR YEAR

1st Semester		2nd Semester	
CBA 396, Int'l Bus	3	FIN 441, Fin Mgt	3
FIN 301, Bus Finance	3	FIN Elective	3
MGT 301, Principles of Mgt.....	3	MKT 301, Principles of Mkt	3
IME 375, Intro to E-Commerce	3	MGT 305, Org Behavior	3
EH 141, Oral Communication	3	CBA 390, Operations Mgt.....	3
.....	3	EC 303, 321 or 322	3
	15		18

SENIOR YEAR

1st Semester		2nd Semester	
FIN Elective	3	FIN 434, Int'l Fin	3
FIN 474, Invest	3	FIN Elect	3
FIN 475, Adv. Topics	3	FIN 481, Seminar.....	3
General Electives	3	CBA 469, Bus Policy	3
CBA 350, Business Communication.....	3		
	15		12

MANAGEMENT

JUNIOR YEAR

1st Semester		2nd Semester	
EH 141, Oral Communication	3	MGT 372, Dynamics of Org	3
CBA 396, Int'l Business	3	MGT 305, Org Behavior	3
FIN 301, Business Finance	3	EC 303, 321 or 322	3
MGT 301, Principles of Mgt	3	CBA 390, Operations Mgt.....	3
MKT 301, Principles of Marketing	3	CBA 350, Business Communication.....	3
	15	MGT 385, Hum Resource Mgt	3
			18

SENIOR YEAR

1st Semester		2nd Semester	
MGT Electives	6	CBA 469, Bus Policy	3
IME 375, Intro to E-Commerce	3	MGT 491, Seminar	3
General Elective	3	MGT Elective	6
	12	General Elective	3
			15

MAJOR: MANAGEMENT WITH CONCENTRATION IN HUMAN RESOURCE MANAGEMENT

Students interested in the Bachelor of Science degree with a major in Management and a concentration in Human Resource Management may select their 9 hours of MGT electives from the following five courses: MGT 389 - Advanced Human Resource Management, MGT 422 - Seminar in Human Resource Management, MGT 468 - Compensation Management, MGT 489 - Management Internship, and MGT 490 - Collective Bargaining.

MAJOR: MANAGEMENT WITH CONCENTRATION IN INFORMATION MANAGEMENT/E-COMMERCE

Students interested in the Bachelor of Science degree with a major in Management and a concentration in Information Management/E-Commerce may select 9 hours of IME electives from the following five courses: IME 380 - Project Management, IME 420 - Virtual Enterprises, IME 450 - E-Commerce Information Management, IME 451 - E-Commerce Applications, and CS 305 - Spreadsheet Modeling.

MARKETING

JUNIOR YEAR

1st Semester	2nd Semester
EH 141, Oral Communication3	MKT 378, Consumer Behavior3
CBA 396, Int'l Business3	MKT elective3
FIN 301, Bus Fin3	MGT 305, Org Behavior3
MGT 301, Principles of Mgt.....3	CBA 350, Bus Communication3
MKT 301, Principles of Marketing3	EC 303, 321 or 3223
	CBA 390, Operations Mgt.....3
15	18

SENIOR YEAR

1st Semester	2nd Semester
MKT 361, Sales3	CBA 469, Bus3
MKT 395, Bus-to-Bus Marketing3	MKT 495, Marketing Mgt3
MKT Elective3	MKT 497, Marketing Research3
General Elective3	MKT 488, Adv. & Promotion3
IME 375, Intro to E-Commerce3	
15	12

MINORS

Minors in business related areas are not available as part of the regular 120 hour degree program to students earning a Bachelor of Science Degree in Accounting, Business Economics, Finance, Management, or Marketing. At least six (6) credits toward completion of a minor must be taken at JSU. **All course prerequisites stated in the course descriptions in this Catalog must be met.**

A minor in Accounting consists of at least 18 hours of Accounting courses including: ACC 200, 210, 301, 310, 372, and three additional hours of 300-400 level Accounting courses.

A minor in Business Administration consists of at least 25 hours including: ACC 200, ACC 210, FIN 292, FIN 301, MGT 301, 305, MKT 301, and ST 260. This minor is not open to business majors; the BA in economics is the only exception to this policy.

A minor in Business Economics consists of at least 18 hours of economics classes including 221, 222, 303, 321, 322 and three additional hours of 300-400 level EC electives.

A minor in Finance consists of at least 18 hours of Finance courses, including FIN 301, 441, 474 and nine additional hours of 300-400 level FIN electives.

A minor in Information Management/E-Commerce consists of at least 18 hours including IME 375, IME 475, EC 475, MGT 301, CS 400, and one of the following: FIN 300, MKT 301, or MGT 330.

A minor in International Business consists of at least 21 hours including CBA 396, FIN 301, FIN 434, MKT 493 (requires MKT 301 as a prerequisite)¹, EC 450 (requires EC 221, 222 as prerequisites)¹, 3 hours of a foreign language, and either PSC 305 or PSC 432.

A minor in Management consists of at least 18 hours of Management courses including MGT 301, 305, 385, 468 or 490, and six additional hours of 300-400 level MGT electives.

A minor in Marketing consists of at least 18 hours of Marketing courses including MKT 301, 361, 378, 395, 495 and three additional hours of marketing electives.

A minor in Urban Economics/Real Estate Development consists of at least 24 hours including FIN 341, 343, 344, 440 (requires FIN 301 as a prerequisite and FIN 301 requires ACC 200 as a prerequisite)¹, EC 471 (requires EC 221, 222 as prerequisites), MKT 301, 394, and GY 341.

¹This information is provided since these prerequisite courses are in addition to the actual requirements for the minor.

**BACHELOR OF ARTS
MAJOR: ECONOMICS WITH APPROVED MINOR**

FRESHMAN YEAR

1st Semester		2nd Semester	
EH Comp 101	3	EH Comp 102	3
Science ¹	4	Science ¹	4
MS 112, Precalculus Algebra	3	ST 260, ST & QM I with Lab	4
Fine Arts and Humanities ⁵	3	Social/Behavioral Science ⁴	3
HY ²	3		
	16		14

SOPHOMORE YEAR

1st Semester		2nd Semester	
EC 221, Prin of Micro Econ	3	Literature ³	3
Literature ³	3	EC 222, Prin of Macro Econ	3
General Electives	3	Minor Course	3
Minor Course	3	CS 201, Intro to Info Tech	3
	12	Social/Behavioral Science ⁴	3
			15

JUNIOR YEAR

1st Semester		2nd Semester	
Economics Electives	6	EC 321, Intermediate Micro	3
Minor Course	3	Economics Electives	3
General Elective	3	Minor Course	3
EH 141, Oral Communication	3	General Electives	6
EC 303, Money & Bank	3		
	18		15

SENIOR YEAR

1st Semester		2nd Semester	
EC 322, Intermediate Macro	3	EC 450, International Economics	3
Economics Electives	3	Minor Course	3
EC 310, Public Finance	3	General Electives Minor Course	3
Minor Course	5	(or minor courses if needed) ⁶	4
General Elective	3		
	17		13

¹Two semesters of science with corresponding labs are required. Select from the following: BY 101, 102; CY 105, 106; GL 241, 242; PHS 201, 202; GY 250, 251.

²Students must select from HY 101 & 102, or 201 & 202. (Students may take a second literature course in lieu of a second history course)

³Literature—Select from the following: EH 201 & 202, 203 & 204, 219 & 220, or 231 & 232. (Students may take a second history course in lieu of a second literature course)

⁴Social and Behavioral Science—Select from the following: AN 224, GY 120, PSC 100, PSY 201, SY 221.

⁵Fine Arts and Humanities—Select from the following: ART 202, DR 242, MU 233, SH 101, FH 101.

⁶Of the total hours, 52 must be numbered 300 or above.

**MAJOR: ECONOMICS WITH CONCENTRATION IN
INTERNATIONAL BUSINESS AND APPROVED MINOR**

Students interested in the Bachelor of Arts degree with a major in Economics and a concentration in International Business may substitute 12 hours of Economics electives with the following 12 hours: CBA 396 International Business, FIN 434 International Finance (requires FIN 301 as a prerequisite), MKT 493 International Marketing (requires MKT 301 as a prerequisite), and PSC 305 Comparative and International Politics or PSC 432 International Relations.

**MAJOR: ECONOMICS WITH MINOR IN URBAN
ECONOMICS/REAL ESTATE DEVELOPMENT**

Students interested in the Bachelor of Arts degree with a major in Economics and a minor in Urban Economics/Real Estate Development may substitute 24 hours of minor courses/electives with the following 24 hours: FIN 341 Principles of Real Estate, FIN 343 Real Estate Appraisal, FIN 344 Legal Aspects of Real Estate, FIN 440 Real Estate Finance/Development (requires FIN 301 as a prerequisite and FIN 301 requires ACC 200 as a prerequisite), EC 471 Urban Economics (requires EC 221, 222 as prerequisites), MKT 301 Principles of Marketing, MKT 394 Retailing, and GY 341 Economic Geography.

DESCRIPTION OF COURSES

GENERAL BUSINESS (CBA)

115. Business Fundamentals/Orientation (3). Course provides a general overview of the various functional business operations with an emphasis on the role of the enterprise within modern society.

Courses listed below require, in addition to stated prerequisites, ACC 200, 210, EC 221, 222, MS 112, and ST 260, 261.

300. American Business Enterprise (3) *Prerequisites: EC 221 and 222.* Examines the evolution of business activity in America, including large industrial enterprises, monopolies, financial institutions, and the rise of the internet and service economies. Scheduled on demand.

350. Business Communications (3). *Prerequisite: EH 101, 102, 141 and Junior Standing.* Principles, procedures, and skills underlying oral and written communications in the field of business.

390. Operations Management (3). *Prerequisites: MGT 301 and ST 261.* Concepts and techniques for operational decision-making regarding the conversion of inputs to goods and services within business organizations. This course stresses the application of management principles and the utilization of quantitative methods in both the manufacturing and service sectors. (Formerly MGT 390)

396. International Business (3). *Prerequisite: Junior Standing.* Study of the nature and scope of international business, including the basic problems associated with inter-national trade, payments, investment, and cultural differences.

469. Business Policy and Strategy (3). *Prerequisites: Senior status and completion of all 200-300 level CCBA Core courses.* Focuses on the formulation and implementation of business strategy and establishment and maintenance of an efficient organization.

487. Seminar in Entrepreneurial Service Learning (3). *Prerequisite: Requires consent of instructor.* Supervised practical application of the principles of entrepreneurship and free enterprise. Students will create, organize, and execute projects in the local and regional communities which should serve to enhance their team building and communication skills. The course offers opportunities for networking with community and business leaders and is open to all majors. Provides an excellent opportunity for students to engage in and benefit from service-learning.

488. Small Business Experience (3). *Prerequisites: Senior status and completion of all 200-300 level CCBA Core courses.* An integrating management course that focuses on the special problems and skills related to starting, maintaining and expanding small business in a dynamic environment.

DEPARTMENT OF FINANCE (FIN), ECONOMICS (EC) AND ACCOUNTING (ACC)

214 MERRILL HALL

Department Head: Scroggins

FINANCE FACULTY

Professor: Clayton, Schmidt, Scroggins

Associate Professor: Hardy, Landry

Assistant Professor: Boozer

ECONOMICS FACULTY

Professor: Fielding, Bennett, McCarty, Carter

ACCOUNTING FACULTY

Professor: C. Sneed, J. Sneed, Zanzig

Assistant Professor: Collum

Instructor: Staples

STATISTICS FACULTY

Professor: Clark

Associate Professor: Lowe

Instructor: Turley

DESCRIPTION OF COURSES

FINANCE (FIN)

292. **Legal and Social Environment (3).** Examination of current problems and issues facing managers in a changing society. Explores business, government and interest-group interrelationships. Extensive examination of ethical considerations in business. (Formerly CBA 292. Business and Society). May not be taken for credit if student has completed CBA 292, Business and Society.

Courses listed below, with the exception of FIN 311, and FIN 341, 343 and 344 require, in addition to stated prerequisites, ACC 200, 210, EC 221, 222, MS 112, and ST 260, 261.

300. **Business Law (3).** Legal principles related to Uniform Commercial Code; contracts and personal property and bailments; the law of sales; commercial paper; and secured transactions.
301. **Business Finance (3).** *Prerequisite: Junior Standing.* A survey of business finance. Coverage of the basic financial decisions including investment, financing, and dividend.
311. **Personal Financial Planning (3).** Personal financial planning including time buying, insurance, housing, investments, budgeting, use of financial institutions, and taxes.
341. **Principles of Real Estate (3).** Real estate ownership interest, legal processes, financing instruments and institutions, consideration of subdividing and zoning, federal housing litigation, and taxation.
343. **Real Estate Appraisal (3).** *Prerequisite: FIN 341.* Analysis of sites and buildings; collection, analysis interpretation of cost and market data; depreciation, capitalization; correlation of value factors; writing of appraisal reports.
344. **Legal Aspects of Real Estate (3).** *Prerequisite: FIN 341.* Estates in land, purchase and sales contracts, conveyances, mortgages and trust deed transactions, property taxes, landlord and tenant, wills and inheritance.
361. **Bank Management (3).** *Prerequisite: FIN 301.* The commercial bank as a business enterprise; principles of organization and operation; regulatory framework; and problems of competition and growth.
397. **Financial Institutions and Markets (3).** *Prerequisite: FIN 301.* Analysis of the operating policies of financial institutions and the effect upon the structure of the capital and money markets.
410. **Wills, Estates, and Trusts (3).** A study of the basic legal and financial principles and practices involved in the planning and administration of wills, estates, and trusts.
434. **International Finance (3).** *Prerequisite: FIN 301.* Problems in foreign operations and other aspects of multi-national-business; the role of international money and capital markets; financing trade and economics development.
440. **Real Estate Finance (3).** *Prerequisite: FIN 301.* Institutions, instruments and mortgage banking practices. Emphasis on analyzing mortgage risks, loan terms and rates, servicing, foreclosure, sources of mortgage credit and government influences.

- 441. Financial Management (3).** *Prerequisite: FIN 301.* A study of financial decision making. Profit planning, financing strategies, financial analysis and ethical questions are emphasized.
- 474. Investments (3).** *Prerequisite: FIN 301.* A survey of investment principles and practices. Emphasis is given to security analysis and portfolio management, with special attention focused on the individual investor.
- 475. Advanced Topics in Finance (3).** *Prerequisite: FIN 441.* Application of financial management techniques to capital structure policy, dividend policy, financing decisions, working capital management and corporate restructuring.
- 481. Seminar in Finance (3).** *Prerequisite: Should be taken in Senior year and after the completion of FIN 441.* Financial theories and problems involving investment, financing, and dividend decisions.
- 486. Independent Research in Finance (3).** *Prerequisite: Permission of the department head.* Research will be conducted into an area of "special interest" documented by a thesis-styled research paper.
- 489. Finance Internship (3).** *Prerequisites: Junior status and the approval of the Finance Department Head.* Provides the finance major with practical experience in the field via an internship arrangement. (PASS/FAIL grade only).

The following courses may be used to satisfy up to six credits of elective requirements for the Finance major. All prerequisites must be met.

- Accounting 371.—Cost Accounting (3).** *Prerequisite: ACC 210.* For course description see Accounting 371.
- CBA 300.—American Business Enterprise (3)** *Prerequisites: EC 221, 222.* For course description, see CBA 300.
- Economics 316.—Managerial Economics (3).** *Prerequisites: EC 221, 222.* For course description see Economics 316.
- Economics 321.—Intermediate Microeconomics (3).** *Prerequisites: EC 221, 222.* For course description see Economics 321.
- Economics 322.—Intermediate Macroeconomics (3).** *Prerequisites: EC 221, 222.* For course description see Economics 322.
- Economics 471.—Urban Economics (3).** *Prerequisites: EC 221, 222.* For course description see Economics 471.
- Economics 485.—Field Experience (3).** For course description see Economics 485.
- Information Management/e-commerce 380.—Project Management (3).** *Prerequisite: IME 375.* For course description, see IME 380.
- Information Management/e-commerce 420.—Virtual Enterprises (3).** *Prerequisite: IME 375.* For course description, see IME 420.
- Management 330.—Entrepreneurship (3).** *Prerequisite: MGT 301.* For course description, see MGT 330.
- Marketing 361.—Sales/Sales Force Management (3).** *Prerequisite: MKT 301.* For course description, see MKT 361.

BUSINESS ECONOMICS (EC)

- 221. Principles of Microeconomics (3).** *Prerequisite: MS 100 or higher level math course.* Microeconomic analysis, including the consumer, the firm, the market and price determination.
- 222. Principles of Macroeconomics (3).** *Prerequisite: MS 100 or higher level math course.* A macroeconomic approach, including money and banking, national income accounting monetary and fiscal policy, and international economics.
- 225. Honors Principles of Microeconomics (3).** *Prerequisite: MS 112, or higher level math course.* Microeconomic analysis, including the consumer, the firm, the market, and price determination. Stresses the advanced application of principles of microeconomics to the theory of the firm. A research paper is required.
- 226. Honors Principles of Macroeconomics (3).** *Prerequisite: MS 112, or higher level math course.* A macroeconomic approach, including money and banking, national income accounting, monetary and fiscal policy, and international economics. Stresses the advanced application of principles of macroeconomics to the analysis of monetary and fiscal policy. A research paper is required.
- Business Statistics 261.—Statistics/Quantitative Methods II (3).** *May be counted as a course in Department of Economics for students pursuing the BA in Economics.* For description, see Statistics 261.

Courses listed below require, in addition to stated prerequisites, ACC 200, 210, EC 221, 222, MS 112 and ST 260, 261 for students pursuing the B.S. degree in a business field.

- 303. Money and Banking (3).** *Prerequisites: EC 221, 222.* Topics in monetary policy, theory, monetary standards, the commercial banking system, and the federal reserve system are considered in detail.
- 305. Comparative Economic Systems (3).** *Prerequisites: EC 221, 222.* Examines the theoretical and practical differences between a centralized economy and decentralized economy. Emphasis on the ideological and political aspects of these different systems.

- 310. Public Finance (3).** *Prerequisites:* EC 221, 222. An economic analysis of the role of government. Topics to be examined include externalities and public goods, tax policies, government expenditures and social decision-making.
- 316. Business Decision Analysis (3).** *Prerequisites:* EC 221, 222. Application of the principles of economics to business management situations. Emphasis in reconciling simple but meaningful models with the complex situations encountered in business.
- 321. Intermediate Microeconomic Theory (3).** *Prerequisites:* EC 221, 222. The theory of the pricing system under varying market conditions and the distribution of income among the factors of production.
- 322. Intermediate Macroeconomic Theory (3).** *Prerequisites:* EC 221, 222. The measurement of national output, including income and employment theory, general equilibrium theory, and the theories of interest, investment, and consumption.
- 345. Industrial Organization and Economic Regulation (3).** *Prerequisites:* EC 221, 222. Investigates the nature of firms and industry structures. Topics include competition, monopoly, firm behavior, transaction costs theory, and the effects of anti-trust and regulatory policy.
- 420. History of Economic Thought (3).** Examination of the main theoretical developments since the beginning of the systematic study of economics in the 18th century. Special emphasis is given to the following major schools of economic thought: Mercantilists, Physiocrats, Classicists, Socialists, Marginalists, Neo-Classicalists, Keynesians, and Post-Keynesians.
- 446. Environmental and Natural Resources Economics (3).** *Prerequisites:* EC 221, 222. Use of economic analysis to examine global environmental problems and the depletion of natural resources. An examination of issues related to market failure including benefit-cost analysis, externalities, property rights, and energy policy.
- 450. International Economics (3).** *Prerequisites:* EC 221, 222. Economic analysis of international relations. Emphasis will be placed on theories of exchange and international monetary economics with only secondary interest placed on institutional arrangements.
- 455. Sports Economics (3).** *Prerequisites:* EC 221 and 222. An economic analysis of professional and collegiate sports. Basic economics tools are applied to study both individual and team sports, addressing such topics as market structures, labor issues, publicly funded stadia, the NCAA and the college athlete.
- 463. Senior Seminar in Economics (3).** *Prerequisite:* Capstone course, should be taken in Senior year. Exceptions approved by Department Head. Considers the methodology of economics and provides a comprehensive review of economic theory.
- 465. Health Care Economics (3).** *Prerequisites:* EC 221, 222. An economic exploration of the health care industry including demand-cost analysis, methodology development, financing health care services, and efficient resource allocation.
- 471. Urban Economics (3).** *Prerequisites:* EC 221, 222. An analysis of economic forces affecting urbanization and the economic processes influencing urban form and structure. Spatial and location concepts are included. Topic coverage includes: the economic origin of cities, urban functions, urban economic base, land use structure, urban form and urban efficiency.
- 475. Economics of E-Commerce (3).** Use of economic analysis to provide insight and understanding necessary to succeed in today's information technology age. Emphasis is placed on practical business strategies to develop price and protect and market goods in an emerging network economy.
- 480. Applied Business Forecasting (3).** *Prerequisites:* EC 221, 222, and ST 261. An introduction to quantitative business forecasting methods. Students will learn how to apply forecasting techniques to examine contemporary business and economic situations.
- 485. Field Experience (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.
- 486. Econometrics (3).** *Prerequisites:* EC 221, 222; and ST 261. The application of mathematics and statistics to economics. Techniques by which economic theory can be applied in order to estimate quantitatively functional relationships.
- 489. Economics Internship (3).** *Prerequisite:* Junior status and approval of the Economics Department Head. Provides the economics major with practical experience in the field via an internship arrangement (Pass/Fail grade only).
- 499. Special Topics and Research (3).** *Prerequisites:* EC 221, 222. Techniques of research and writing are emphasized. Students select an economic topic of interest and write a thesis-type term paper.

In addition to the above listed Economics courses, up to six credits of elective requirements for the Business Economics major may also be selected from Finance courses numbered 300 or above (For descriptions of these courses, see FINANCE COURSE DESCRIPTIONS) and/or the following courses listed below. Check with your advisor to determine which courses are best for you. All course prerequisites must be met.

CBA 300.—American Business Enterprise (3). *Prerequisites:* EC 221, 222. (For course description see CBA 300).

Information Management/E-commerce 380.—Project Management (3). *Prerequisite:* IME 375. For course description, see IME 380.

Information Management/E-commerce 420.—Virtual Enterprises (3). *Prerequisite:* IME 375. For course description, see IME 420.

Management 330.—Entrepreneurship (3). *Prerequisite:* MGT 301. For course description, see MGT 330.

BUSINESS STATISTICS (ST)

260. Statistics/Quantitative Methods I (4). *Prerequisite:* MS 112. *Corequisite:* ST 260 LAB required. Lecture: Quantitative methods and statistics as applied to business and economics including decision/optimization methods, descriptive statistics, probability & statistical inference. Lab: An introduction to Microsoft EXCEL, Microsoft WORD, and the MINITAB statistical software package. Course will focus on computer assignments to complement work covered in the ST 260 course. Student must register for both lecture and lab in same semester.

261. Statistics/Quantitative Methods II (3). *Prerequisites:* MS 112, ST 260. Sampling and statistical inference; hypothesis testing; regression and correlation analysis; and analysis of variance.

ACCOUNTING (ACC)

200. Principles of Accounting I (3). *Prerequisite:* MS 100 or higher level math course. An introduction to financial accounting fundamentals with an emphasis on the overall accounting cycle, along with financial reporting and interpretation of the basic financial statements. Also emphasizes assets as part of the accounting cycle, financial reporting and interpretation of the basic financial statements.

210. Principles of Accounting II (3). *Prerequisites:* MS 112, ACC 200. A continuation of the introduction to financial accounting fundamentals with an emphasis on debt and equity as part of the accounting cycle, financial reporting and interpretation of the basic financial statements. Also, an introduction to the use of managerial accounting information for planning, decision-making, product costing, and performance evaluation.

Courses listed below require, in addition to stated prerequisites, ACC 200, 210, EC 221, 222, MS 112, and ST 260, 261.

Finance 300.—Business Law (3). May be counted as course in the Department of Accounting. For course description, see Finance 300.

301. Accounting Information Systems (3). *Prerequisites:* CS 201 and ACC 210. Basic information system concepts including the transaction processing cycles of a business, the fundamental characteristics of a system of internal controls, the role of information technology in information processing, and the stages of systems development.

310. Financial Accounting I (3). *Prerequisite:* ACC 210. An introduction to accounting standards, an overview of accounting statements, and detailed study of asset and liability accounting. (Formerly ACC 393). A minimum grade of "C" in ACC 310 is required as a prerequisite for ACC 360, 410, 477, 478, 489, 490, and 497.

360. Financial Accounting II (3). *Prerequisite:* ACC 310 with minimum grade of C. *Prerequisite or corequisite:* ACC 301 (minimum C grade) A detailed study of financial accounting topics including liabilities (bonds, pensions, deferred taxes, leases), stockholder's equity, earnings per share, accounting changes and errors, and the statement of cash flows. The course focuses on understanding accounting theory and applying the theory in solving problems.

371. Cost Accounting (3). *Prerequisite:* ACC 210. An introduction to cost accounting through a study of job-order costing, process costing, activity-based costing, standard costing, and variable costing. Emphasis on master, flexible and pro forma budgets with variance analysis.

372. Income Tax Accounting (3). *Prerequisite:* ACC 210. Federal income tax laws as they apply to individuals. Training in the interpretation of regulations and the preparation of a comprehensive federal income tax return. Tax research is also required with a focus on tax planning. Limited coverage is provided of the history of the tax laws as well as additional types of taxes paid by U.S. citizens.

398. Governmental Accounting (3). *Prerequisite:* ACC 210, 310 with minimum grade of C. Accounting procedures for all governmental units, and nonprofit service organizations. Analysis of fund accounting and procedures to prepare government-wide entity statements.

401. Advanced Accounting Information Systems (3). *Prerequisite:* ACC 301 with minimum grade of C. 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.

410. Financial Accounting III (3). *Prerequisite:* ACC 310 with minimum grade of C. A detailed study of business expansion including combinations and international operations, and an overview of partnership accounting.

476. Advanced Income Tax Accounting (3). *Prerequisite:* ACC 372 with minimum grade of C. Advanced federal income tax topics including property transactions and inter-national taxation issues. The course also focuses on the taxation of corporation, 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.

477. Auditing (3). *Prerequisites:* ACC 301, 310, and 360 (minimum grade of C required for all prerequisites). An overview of the theory and process of performing external audits and other attestation services. Courses coverage includes a

study of professional standards, the independence of the external auditor, ethical issues, legal liability, internal controls, statistical sampling, auditing with computers, and the internal audit process.

478. **Accounting Theory (3).** *Prerequisites: ACC 360 and 410 (minimum grade of C required for all prerequisites).* The function of accounting in society including the conceptual framework of accounting and its application to current financial reporting requirements.
489. **Accounting Internship (3).** *Prerequisites: Junior status and consent of the instructor and the Accounting Department Head.* Provides the accounting major with practical experience in the field via an internship arrangement. (PASS/FAIL grade only).
490. **Advanced Auditing (3).** *Prerequisites: Senior standing and ACC 477 with a minimum grade of C.* The practical application of auditing concepts and standards. An under-standing of auditing principles is reinforced and explained by exposure to problems and cases.
497. **Seminar in Accounting (3).** *Prerequisite: Senior accounting majors only.* Examines critical accounting topics through intensive review of current literature and pronouncements. Assesses student's ability to effectively communicate accounting information.
498. **Independent Research in Accounting (3).** *Prerequisite: Permission of department head.* Research will be conducted on an area of special interest documented by a thesis-styled research paper. Scheduled on demand.

DEPARTMENT OF MANAGEMENT (MGT) AND MARKETING (MKT)

216 MERRILL HALL

Department Head: Cobb

MANAGEMENT/IME FACULTY

Professors: Cobb, Hearn, Marker, Yi

Associate Professors: Featherstone, Palmer

Assistant Professor: Kim

Instructors: Buchanan, Newton, Mayfield, Rainwater

MARKETING FACULTY

Professor: Cunningham, Thomas

Assistant Professor: Lee

DESCRIPTION OF COURSES

MANAGEMENT (MGT)/ INFORMATION MANAGEMENT, E-COMMERCE (IME)

Courses listed below require, in addition to stated prerequisites, ACC 200, 210, EC 221, 222, MS 112, and ST 260, 261.

MANAGEMENT (MGT)

301. **Principles of Management (3).** *Prerequisite: Junior standing.* A basic course in general management principles and theories. (Management 301 is a prerequisite to all other management courses.)
305. **Organizational Behavior (3).** *Prerequisite: MGT 301.* The application of organizational behavior theories in developing managerial competencies in the area of leadership, motivation, team building, group dynamics, interpersonal and group conflict.
330. **Entrepreneurship (3).** *Prerequisite: MGT 301.* Comprehensive overview of entrepreneurship and the entrepreneurial process. A practical guide to starting a small business.
372. **The Dynamics of Organizations (3).** *Prerequisite: MGT 301.* An analysis of the managerial process and dynamics of organization, with the organization viewed as a system interacting with a changing environment.
385. **Human Resource Management (3).** *Prerequisite: MGT 301.* Basic principles, philosophies, and applications of personnel administration.
387. **Supervision (3).** *Prerequisite: MGT 301.* Study of the functions, techniques, and skills required to supervise in manufacturing and service businesses and non-profit organizations.
389. **Advanced Human Resource Management (3).** *Prerequisite: MGT 385.* An advanced Human Resource Management course. Extensive use of cases, practical application of theory and research into the legal requirements of Human Resource Management.

- 410. Advanced Operations Management (3).** *Prerequisite:* CBA 390. An in-depth study of selected topics in production and operations management.
- 420. Teams and Quality Management (3).** *Prerequisites:* Senior Status and MGT 305. Focuses on the development and use of teams to improve quality, productivity, and organizational processes. Examines concepts, philosophies, and tools used in managing for quality.
- 422. Seminar in Human Resource Management (3).** *Prerequisite:* MGT 385. A comprehensive course covering human resource management strategies, functions, and activities in modern organizations. Particular emphasis is placed on current issues facing human resource managers in organizations.
- 468. Compensation Management (3).** *Prerequisite:* MGT 385. An applied study of the development of compensation packages including a review of major theories and techniques regarding internal consistency, external competitiveness, individual contribution, administrative procedures, and benefit.
- 489. Management Internship (3).** *Prerequisites:* Senior status and consent of instructor. Provides the management major with practical experience in the management field via an internship arrangement. (PASS/FAIL grade only.)
- 490. Collective Bargaining (3).** *Prerequisite:* MGT 385. A comprehensive study of employer and employee relations. Emphasis is placed on legislation, policies, and practices regarding negotiation and bargaining within the employer-union-employee relationship. Attention is also focused on the problem of handling and settling industrial controversy.
- 491. Management Seminar (3).** *Prerequisite:* Senior standing. A topical seminar which includes selected readings in current management literature combined with classroom lectures and discussions. Includes supervised and independent student research.
- 495. Business Decision Simulation (3).** *Prerequisite:* Senior Standing. GPSS computer simulation software is used to construct business decision-making models. Problem analysis, report writing, and software use are emphasized.
- 496. International Management (3).** *Prerequisite:* Senior status. Comparative study in managing the international, multinational and national business organization.
- 499. Senior Management Research (3).** *Prerequisites:* Senior status and consent of instructor. Independent research on a management topic jointly selected by student and instructor.

The following courses may also be used to satisfy elective requirements for the Management major. All prerequisites must be met.

Economics 455.-- Sports Economics (3). For course description, see Economics 455.

Finance 300.—Business Law (3). For course description, see Finance 300.

Finance 311.—Personal Financial Planning (3). For course description, see Finance 311.

Finance 341.—Principles of Real Estate (3). For course description, see Finance 341.

Finance 361.—Bank Management (3). *Prerequisite:* FIN 301. For course description, see Finance 361.

Finance 474.—Investments (3). *Prerequisite:* FIN 301. For course description, see Finance 474.

Information Management/E-commerce 380.—Project Management (3). *Prerequisite:* IME 375. For course description, see IME 380.

Information Management/E-commerce 420.—Virtual Enterprises (3). *Prerequisite:* IME 375. For course description, see IME 420.

Information Management/E-commerce 450.—E-Commerce Information Management (3). *Prerequisite:* IME 375. For course description, see IME 450.

CBA 300.—American Business Enterprise (3). *Prerequisites:* EC 221 and 222. For course description, see CBA 300.

CBA 488.—Small Business Experience (3). *Prerequisite:* Senior status and completion of all 200-300 level CCBA core courses. For course description, see CBA 488.

Marketing 365.—Marketing Successes and Failures (3). *Prerequisite:* MKT 301. For course description see Marketing 365.

Marketing 370.—Transportation and Logistics (3). *Prerequisite:* MKT 301. For course description, see Marketing 370.

Marketing 378.—Consumer Behavior (3). *Prerequisite:* MKT 301. For course description, see Marketing 378.

Marketing 395.—Business-to-Business Marketing (3). *Prerequisite:* MKT 301. For course description, see Marketing 395.

INFORMATION MANAGEMENT/E-COMMERCE

375. Introduction to e-Commerce (3). *Prerequisite:* Junior Standing. Survey course in e-commerce and the digital enterprise. The course emphasizes using the web to learn about the web and the elements of e-business. Students work in team environments with groupware and collaboration software. Topics include digital design, web

business models, web metrics, using intelligent agents, dynamic pricing, security and privacy, governance models, and web ethics. (Formerly CBA 375)

- 380. **Project Management (3).** *Prerequisite: IME 375.* This course focuses on three vital elements of project management: people, process, and technology. Students learn project management concepts, objectives, and tools, and how to utilize coaching strategies to manage complex e-business and e-commerce projects. Topics include the PM process, project planning, project execution, and project evaluation.
- 385. **E-Commerce Marketing and Metrics (3).** *Prerequisite: IME 375.* An in-depth study of web business models, this course surveys major e-commerce markets and marketing strategies, including web pricing strategies. The course also focuses on web metrics and performance management criterion and how e-businesses utilize them. Focus group and survey research applications in the digital world are covered. Students will learn the effects electronic markets have on local, national, and global economics.
- 410. **Process and Methodology (3).** *Prerequisite: IME 375.* Students will examine current enterprise business processes, critique process documents, learn to map methods to processes, and develop a digital business process model.
- 420. **Virtual Enterprises (3).** *Prerequisite: IME 375.* The Virtual Enterprise represents a new organization for the 21st century, enabled by new information technologies and evolving to compete in a global economy. This course examines the development of the virtual enterprise and explores strategies for managing in virtual and matrixed organizations. Students review a range of electronic collaboration tools for virtual work environments.
- 450. **E-Commerce Information Management (3).** *Prerequisite: IME 375.* Developing skills in utilizing e-commerce information to assist managerial decisions. Managing and integrating web page information. (Formerly CBA 450)
- 451. **E-Commerce Applications (3).** *Prerequisite: Capstone course, should be taken in senior year.* Students will participate in an e-commerce project and apply the theories, processes, and methodologies learned in previous IME courses. Students will engage in activities with selected clients to provide strategic consulting guidance and develop high-level solution designs.
- 475. **Current Issues in e-Commerce (3).** *Prerequisite: IME 375.* Distinguished executive guest lecturers and the e-business faculty discuss topical issues related to business transformation and the cyber economy. (Formerly CBA 475)

MARKETING (MKT)

Courses listed below require, in addition to stated prerequisites, ACC 200, 210, EC 221, 222, MS 112, and ST 260, 261.

- 301. **Principles of Marketing (3).** *Prerequisite: Junior standing.* An introduction to marketing strategy. Focuses on the application of product, promotion, price and distribution elements in satisfying the wants and needs of target markets.
- 361. **Sales/Sales Force Management (3).** *Prerequisite: MKT 301.* A study of the personal selling process. The course focuses on communications, motivation, planning, and practical application of sales techniques.
- 370. **Transportation and Logistics (3).** *Prerequisite: MKT 301.* Provides a broad and general exposure to transportation issues including modes of transportation, their relationships, and special uses. Business logistics (including, but not limited to coverage of inventory, warehousing, materials and handling, packaging, and order procession) and how transportation and logistics are interrelated are also covered.
- 378. **Consumer Behavior (3).** *Prerequisite: MKT 301.* A study of fundamental activities, habits, and motives which affect consumer interest, trial, evaluation, usage, and disposal of products. Includes ethical marketing considerations.
- 394. **Retailing (3).** *Prerequisite: MKT 301.* A study of the American retailing system. Topics include: the expanding role of e-commerce, store management, atmospherics, location analysis, trading area analysis, site selection, retail buying, merchandise and financial budgeting, inventory control, and promotional strategy.
- 395. **Business-To-Business Marketing (3).** *Prerequisite: MKT 301.* An analysis of marketing strategy as it applies to firms that engage in the production of finished products or services, including an examination of the buying behavior of profit and non-profit-making enterprises, as well as governmental agencies and the impact of e-commerce on these enterprises and processes. (formerly MKT 363) (May not be taken for credit if student has completed MKT 363 - Industrial Marketing)
- 488. **Advertising and Promotions (3).** *Prerequisite: MKT 301.* Investigation of methods used to communicate with markets, including advertising, sales promotions, re-seller support, publicity, public relations, and corporate advertising. Includes cases combining these topics with a managerial orientation (formerly MKT 377 and more recently MKT 388).
- 489. **Marketing Internship (3).** *Prerequisites: Junior status and consent of instructor.* Provides the marketing major with practical experience in the marketing field via an internship arrangement. (PASS/FAIL grade only).
- 492. **Senior Marketing Seminar (3).** *Prerequisites: Senior status and MKT 301.* Investigation and analysis of current literature and problems in the field of marketing. Includes classroom lectures and discussions; supervised and independent student research.
- 493. **International Marketing (3).** *Prerequisites: Senior status and MKT 301.* An introduction to the cultural differences encountered in foreign markets (mainly the Arabic/Islamic and Japanese cultures), and the effects of these on

target markets, and the product, price, place, and promotion aspects of marketing. The questions of adaptation vs. standardization as a strategy in international markets, barriers to market entry and trade, and the import/export process are examined.

- 495. Marketing Management (3).** *Prerequisites: Senior status and MKT 301.* Capstone course combining lecture, cases, and student discussion in a seminar setting. Examines and analyzes the marketing process with special emphasis on the development of comprehensive marketing plans.
- 497. Market Research (3).** *Prerequisites: Senior status and MKT 301.* The application of research techniques and procedures for assessing markets. Students will conduct an actual research project and submit results in a thesis-type report.
- 498. Senior Marketing Research (3).** *Prerequisites: MKT 497 and consent of instructor.* Independent research on a marketing topic jointly selected by student and instructor.

The following courses may also be used to satisfy elective requirements for the Marketing major. All prerequisites must be met.

Economics 455.—Sports Economics (3). For course description, see Economics 455.

Finance 300.—Business Law (3). For course description, see Finance 300.

Finance 311.—Personal Financial Planning (3). For course description, see Finance 311.

Finance 341.—Principles of Real Estate (3). For course description, see Finance 341.

Finance 474.—Investments (3). *Prerequisite: FIN 301.* For course description, see Finance 474.

Information Management/E-commerce 380.—Project Management (3). *Prerequisite: IME 375.* For course description, see IME 380.

Information Management/E-commerce 420.—Virtual Enterprises (3). *Prerequisite: IME 375.* For course description, see IME 420.

Information Management/E-commerce 450.—E-Commerce Information Management (3). *Prerequisite: IME 375.* For course description, see IME 450.

CBA 488.—Small Business Experience (3). *Prerequisites: Senior status and completion of all 200-300 level CCBA core courses.* For course description, see CBA 488.

Management 330.—Entrepreneurship (3). *Prerequisite: MGT 301.* For course description, see MGT 330.

Management 372.—Dynamics of Organizations (3). *Prerequisite: MGT 301.* For course description, see MGT 372.

Management 385.—Human Resource Management (3). *Prerequisite: MGT 301.* For course description, see MGT 385.

Management 468. Compensation Management (3). *Prerequisite: MGT 301.* For course description, see MGT 468.

COLLEGE OF EDUCATION AND PROFESSIONAL STUDIES

John B. Hammett, Dean
Tommy E. Turner, Associate Dean

Accredited By:

National Council for Accreditation of Teacher Education
Alabama State Department of Education
Accreditation Council for Education in Nutrition and Dietetics
American Association of Family and Consumer Sciences
Association of Technology, Management, and Applied Engineering
Accrediting Council on Education in Journalism and Mass Communications
Council for Accreditation of Counseling and Related Educational Programs

Member Of:

American Association of Colleges for Teacher Education
Alabama Association of Colleges for Teacher Education

The mission of the College of Education and Professional Studies is to prepare students for successful careers in a variety of professions through innovative teaching methodologies in a learning-centered environment.

The uniqueness of the College is reflected through the diversity of programs and services. The programs in Communications, Education, Family & Consumer Sciences, **Kinesiology**, and **Applied** Engineering are designed to assist students in developing skills in critical thinking/problem solving, innovation/creativity, communication, and collaboration.

The College of Education and Professional Studies offers programs that are nationally accredited. The department of Communications is accredited by the *Accrediting Council on Education in Journalism and Mass Communications* (ACEJMC). The department of Family and Consumer Sciences is accredited by the American Association of Family and Consumer Sciences (AAFCS). The dietetics program in Family & Consumer Sciences is accredited by the *Accreditation Council for Education in Nutrition and Dietetics* (ACEND). The department of Applied Engineering is accredited by the *Association of Technology, Management, and Applied Engineering* (ATMAE). The counseling programs in the department of Educational Resources are accredited by the *Council for Accreditation of Counseling & Related Educational Programs* (CACREP). All teacher preparation and other school personnel programs (both initial and advanced) in the college are accredited by the *National Council for Accreditation of Teacher Education* (NCATE) and the *Alabama State Department of Education* (ALSDE). Students graduating from these professional education program benefit from JSU's associate membership in the National Association of State Directors of Teacher Education and Certification (NASDTEC), allowing transferability of teaching credentials.

Please consult the *Graduate Bulletin* for details on Master of Science (MS), Master of Science in Education (MSE) and Educational Specialist (EdS) degree programs offered through the college.

HONESTY POLICY

Cheating

1. **Cheating: 1st Offense** – A student who cheats on an examination (or any other graded work) will receive a failing grade ("F") in the course.
2. **Cheating: 2nd Offense** – A student who cheats on an examination (or any other graded work) will be dismissed from the program of study, and will not be allowed to enroll in any other programs of study in the College of Education & Professional Studies at Jacksonville State University.

Plagiarism

1. **Plagiarism: 1st Offense** – A student who plagiarizes will receive a failing grade ("F") in the course. In addition, the student will be required to complete a remedial seminar on plagiarism. Failure to do so will result in an automatic 2nd Offense.
2. **Plagiarism: 2nd Offense** – A student who plagiarizes a second time will be dismissed from the program of study, and will not be allowed to enroll in any other program of study in the College of Education & Professional Studies at Jacksonville State University.

Exhibiting Unethical Disposition

1. **Exhibiting Unethical Disposition: 1st Offense** – A student who exhibits an unethical disposition such as lying and/or falsifying documentation to anyone in a supervisory role during any school or school-related activity associated with coursework will receive a failing grade ("F") in the course.
2. **Exhibiting Unethical Disposition: 2nd Offense** – A student who exhibits an unethical disposition such as lying and/or falsifying documentation to anyone in a supervisory role a second time will be dismissed from the program of study, and will not be allowed to enroll in any other program of study in the College of Education & Professional Studies at Jacksonville State University.

NOTES:

1. It should be noted that the occurrence of cheating or plagiarism is cumulative, i.e., it carries over to any other course taught in the College of Education & Professional Studies.
2. If a student wishes to appeal at any level of the honesty policy, she (he) is to follow the College of Education & Professional Studies' grade appeal process.

Grades Dismissal Policies (Teacher Education Programs)

1. If a student receives consecutive grades of "D" or "F" (or any combination of "D" and "F" grades) in a "professional studies" course (or any course that requires eligibility to teacher education as a prerequisite), he (she) will be dismissed from the program regardless of his (her) grade point average (GPA). The only avenue for re-eligibility for TEP coursework is if the student employs the *academic forgiveness* policy removing one or more of the grades.
2. If a student accumulates more than three (3) grades of "D" or "F" (or any combination of "D" and "F" grades) in "professional studies" courses (or any course that requires eligibility to teacher education as a prerequisite), he (she) is dismissed from the program regardless of his (her) grade point average (GPA). The only avenue for re-eligibility for TEP coursework is if the student employs the *academic forgiveness* policy removing one or more of the grades.

Grade Point Average (GPA) Dismissal Policy (Teacher Education Programs)

Once an undergraduate student is enrolled in the teacher education program, he (she) must maintain a minimum grade point average (GPA) of **2.75** "overall", **2.75** in the "professional studies" courses, and a **2.75** in the "teaching field" courses. If at any time during the program the GPA falls below the **2.75** minimum in any of the three areas, the student will be dismissed from the program. Re-eligibility for TEP coursework is possible if one of the following circumstances occurs:

- 1) The student receives *academic forgiveness*; and by doing so, the GPA increases to the **2.75** level or higher.
- 2) If the GPA drops below **2.75** in the "teaching field" or "overall" the student may reapply to teacher education once the GPA has increased to the **2.75** level or higher.

Note: The only avenue for re-eligibility for TEP coursework if the GPA drops below **2.75** in "professional studies" is if the GPA increases to **2.75** or higher as a result of *academic forgiveness*. A student will not be allowed to retake "professional studies" courses since he (she) must be eligible for TEP in order to enroll in those courses.

EDUCATION PROGRAM REQUIREMENTS

Lisa R. Light
Director of Teacher Education Services and
Certification Officer

I. Eligibility requirements for the Teacher Education Program

Teacher education programs are approved by the Alabama State Board of Education and are therefore subject to periodic revision resulting from changes in State certification requirements. Therefore, modifications in students' programs may become necessary at any time resulting in additions and/or deletions of program requirements. Issuance of Alabama teaching certificates is the legal responsibility of the Alabama State Department of Education. Universities cannot issue a professional certificate. To be eligible to apply for State 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 State certificate. When a student completes the course of study, the institution recommends to the State Department of Education that the appropriate certificate be issued.

To enroll for professional education courses required for teacher certification, the prospective teacher must be eligible for the College of Education and Professional Studies Teacher Education Program. Eligibility for this program is not automatic. To be eligible, the student must have met the minimum State Department of Education requirements as well as our university requirements. See Requirements for Admission section for university requirements.

Any questions that you may have regarding eligibility for the Teacher Education Program may be directed to the Director of Teacher Education Services, College of Education and Professional Studies, Ramona Wood Hall, Room 207.

At the beginning of the sophomore year, students may seek eligibility for teacher education by filing an application to a specific program. The application form is available on the Teacher Service Center website (www.jsu.edu/edprof/tsc/eligibility_requirements.html).

All the following criteria must be met:

1. The candidate must have earned a minimum of 54 semester hours of college credit in which at least 48 semester hours are in the general studies area.
2. The candidate must have earned an overall Grade Point Average of 2.75 based upon a 4.0 scale. After enrollment in the Teacher Education Program, the candidate is required to maintain a 2.75 grade-point average in all of the following areas:

- a. Overall
 - b. In selected teaching field(s)
 - c. In professional education courses or a course that requires eligibility for teacher education. Failure to maintain the appropriate GPA in any one of the three areas will result in dismissal from the Teacher Education Program.
3. The candidate must have successfully passed the Alabama Educator Certification **Assessment** Program- (AECAP).
 4. The candidate must have received positive *Reference Form* evaluations from his/her ED 300 instructor and two instructors from outside the College of Education and Professional Studies.
 5. The candidate must have successfully completed ED 300 Intro to Teacher Education.
 - 6.- The candidate 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 20 hours of structured observation and 10 hours of tutoring through the TLC are required for all students and is completed during ED 300.
 7. The candidate 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.
 8. The candidate must read and sign a Statement of Understanding.
 9. The candidate must provide documentation of a clear criminal background check conducted through the Alabama State Department of Education.

II. Graduation

Requirements for recommendation for a degree in education:

1. The candidate must have met all general university and degree program requirements as outlined in the catalog in effect at the time of the student's eligibility for the Teacher Education Program.
2. The candidate must have maintained a 2.75 grade point average, in all applicable teaching field courses, and in all professional education courses at JSU, and/or all other institutions attended.
3. The candidate must have successfully completed the English Competency Examination.
4. The candidate must have successfully completed the EPP Examination.
5. The candidate must have successfully completed the Major Field Test where applicable.

III. Application for State Certification

Requirements for Alabama Certification:

1. Candidates are required to complete an application for Alabama Teacher Certification the last semester of course work (i.e., the internship semester). Instructions for completing the State certification form are found on the Teacher Service Center website. The appropriate fees (receipt from money order or cashier's check made payable to the Alabama State Department of Education), must be submitted with the State application for certification. The application for State certification, fee payment, and the candidate's transcript are forwarded to the State Department of Education. JSU cannot recommend any candidate for State certification that has not satisfied all Alabama and JSU requirements for eligibility to and completion of an approved program.
2. No grade below "C" in professional studies or teaching field may be used to meet State certification requirements.
3. The College of Education and Professional Studies does not certify teachers. The sole authority to certify teachers rests with the appropriate state agency. The College of Education and Professional Studies will recommend a candidate that has successfully completed an approved program within five years of completion. Recommendation after five years will require completion of the current program in place at the time of the request.
4. Anyone convicted of a felony and/or misdemeanor other than a minor traffic violation may be denied State certification or have State certification revoked by the State Superintendent. Questions may be directed to the Director of Teacher Education Services, College of Education and Professional Studies.
5. Teacher Education programs are approved by the Alabama State Board of Education and are therefore subject to periodic revision resulting from changes in State certification requirements. Therefore, modifications in a candidate's programs may become necessary.

Brandy L. Russell
Assistant Director of Clinical Experiences

I. Practicum Requirements

The College of Education and Professional Studies requires that a candidate pursuing a degree in education must engage in practicum experiences in schools and communities prior to the internship semester. For further details, check with the instructor of the respective education course as to the practicum requirements. Personal professional liability insurance is required prior to beginning any clinical experience within the College of Education and Professional Studies at Jacksonville State University. Please see your course instructor for further details.

II. Internship Semester

Students are required to make formal application for the Senior Internship Semester one semester prior to the semester of internship (fall or spring).. Please note that student internship is offered only in the fall and spring semesters and must be completed the last semester before graduation. All Teacher Education Program eligibility requirements must be met prior to application for internship. Information meetings will be conducted fall and spring semesters. Contact Brandy Russell in the Office of Clinical Experiences for more information.

Eligibility requirements for the Internship Semester:

1. The internship semester is to be completed during the student's last semester of residency at JSU.
2. The candidate must have completed all general studies, professional and teaching field courses.
3. The candidate must possess a 2.75 grade point average in all of the following areas:
 - a. Overall
 - b. In the candidate's teaching field(s)
 - c. In professional education courses
 - d. JSU Only Courses
4. The internship is a standalone experience. The intern shall not be enrolled in other courses during the normal operational hours of the schools where the internship is being completed.
5. The candidate must earn the grade of "C" or above in all teaching field and professional studies. If a grade below a "C" is earned, the candidate must upgrade the grade prior to student teaching.
6. The successful completion of the Alabama approved Praxis II exams (a passing score based on Alabama State Department of Education requirements) is required prior to the pre-service teaching internship. No pre-service teacher will be placed without the required official documentation of a passing score.
7. The intern must secure personal professional liability insurance for the entire internship semester and provide proof of said insurance to the Office of Clinical Experiences.

DESCRIPTION OF COURSES EDUCATION (ED)

- 300. Introduction to Teacher Education (2).** This is an introductory course to teacher education and the CEPS Conceptual Framework. It is a requirement for all initial education candidates (Undergraduate Class B and alternative class A certifications). It is required for eligibility to teacher education. A 30-hour practicum is required. The course is to be taken after completing 30 semester hours of course work.
- 495. Internship in Education (6).** *Corequisite: ED 496; Prerequisites: All general studies, professional and teaching field courses, passing score on the Praxis II, and approval of academic advisor.* Supervised teaching in the public schools. Students are required to enroll in a program-specific section of ED 496. Consult the *Director of Clinical Experiences* for details.
- 496. Reflective Practices in Education (3).** *Corequisite: ED 495; Prerequisites: All general studies, professional and teaching field courses, passing score on the Praxis II exam(s), and approval of academic advisor.* This seminar course is intended to serve as a support mechanism and bridge between methods courses and the internship experience. Class activities involving readings, reflective journals, group discussions, and portfolio development will be used to facilitate individual growth and professional development.

DEPARTMENT OF COMMUNICATION (COM)

Accredited by the
Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

217 SELF HALL

Department Head: Harbor
Professor: Harbor, Ihator
Associate Professor: McGrail
Assistant Professor: Chandler
Ayers Chair: Vacant

The Communication curriculum focuses on developing well-rounded communication professionals capable of interpreting and meeting the challenges of an exciting, ever-changing industry. The Information Age requires professionals who are capable of gathering and packaging information for multi-media formats. Media professionals need a broad background and general education, as well as hands-on skills with new technologies. The ability to express oneself effectively is particularly important for students in a Communication program who hope to become working professionals in the various communications industries. Therefore, satisfactory speaking, writing, and computer skills are mandatory.

THE BACHELOR OF ARTS DEGREE IN COMMUNICATION is obtained by successfully completing: (a) 64 hours within the General Studies Curriculum, including specific university-required courses, CS 201, EH 141, six hours of a foreign language sequence, six hours of English literature sequence, six hours of history sequence, eight hours of a natural-science sequence [which includes two (2) three-hour lecture courses with two corequisite one-hour labs], hours from ART 202, DR 242, or MU 233, some electives, and (b) 64 hours including 45 in Communication courses, 18 or more hours in a minor field, and some electives. A major in Communication must include COM 200, 380, 390, 415, 491, and either 320 or 325. The remaining hours must be selected from a student's area of concentration—broadcasting, digital journalism, or public relations. The six hours in foreign languages must include a sequence of French, Spanish, or German. Students must maintain a minimum GPA of 2.0 and complete, with a minimum grade of "C", all Department of Communication courses required for the degree. Students who make a grade of "D" or "F" in a communication course may repeat the course only once. A second "D" or "F" in the same course will exclude a student from majoring or minoring in communication. All communication majors are required to take at least 72 of the 128 hours required for

graduation outside the communication major. Fifty-three (53) of those 72 hours must be courses in liberal arts and sciences. See departmental check sheet for detailed curriculum. Each COM major should also complete a portfolio before graduation. To assess and improve its academic programs, the department must obtain periodic measurements of student learning. Such measures will include, among others, exit exam and exit interview.

A MINOR IN COMMUNICATION consists of completing all University requirements and a minimum of 21 hours in the Department of Communication. Required courses include 12 hours in COM 200, 205 or 315, 301 or 375, and either 320 or 325. The remaining nine hours must be selected from any other communication courses for which the student is qualified. Students cannot declare both a major and a minor in the Department of Communication.

Students enrolling in COM 404, 405, 406, 407, 408, 411 (the media workshop courses), 475 (directed study), or 491 (internship) must apply for **eligibility** into those courses **no later than** the pre-registration period preceding the semester in which the courses will be taken. Three media workshops—COM 404, 405, and 406—are required of all students in broadcasting and digital journalism, while the advanced media workshops—COM 407, 408, and 411—are optional.

COM 491—Internship—is a required course for all communication majors. Before registering for COM 491 a student must have satisfactorily completed specific courses in her/his area of concentration. The areas of concentration and their requirements for internship are:

Broadcasting—COM 205, 301, 302, 404 and 405
 Digital Journalism—COM 315, 325, 375, 404 and 405
 Public Relations—COM 315, 330, 340, and COM 325.

BACHELOR OF ARTS MAJOR: COMMUNICATION

FRESHMAN YEAR

Fall	Spring
EH 101 English Composition3	EH 102 English Composition3
HY3	COM 200 Intro to Mass Com3
MS 108 Exploring Mathematics3	HY3
Fine Arts Elective3	COM 205 Intro B/cast
EH 141, Oral Communication3	Writing3
STU 1010 Natural Science	4
15	16

SOPHOMORE YEAR

Fall	Spring
Literature3	Literature3
Natural Science4	Social/Behavioral Science3
Social/Behavioral Science3	COM 375 or 340 (or
COM 302 or 3153	interest area)3
COM 404 Media Workshop-11	COM 301or 3253
COM 330 Intro PR (or interest area3	COM 405, Media Workshop-21
	CS 201 Intro Info Tech3
17	16

SUMMER

* COM 491—INTERNSHIP..... 3 hrs.

JUNIOR YEAR

Fall	Spring
COM 380, Com Law3	COM 345 Social Media3
COM 410 Media Features (or interest area)3	COM 320 (or interest area)3
FL 101 Foreign Language3	FL 102 Foreign Language3
COM 406 Media Workshop-31	General Elective/Minor3
General Elective/Minor3	COM 415, Mass Com Research3
CS 315 Intro Web Design3	
16	15

SENIOR YEAR

Fall	Spring
COM 390, Com Ethics3	COM 420 or 440 or 470 Capstone3
COM 385 Multimedia Des.3	General Elective/Minor12
General Elective/Minor9	
<hr/> 15	<hr/> 15

TOTAL HOURS: 128

**Following the above schedule, any student will be ready for internship upon completing the sophomore year*

DESCRIPTION OF COURSES COMMUNICATION (COM)

- 200. Intro to Mass Communication (3).** *Prerequisite: EH 101 or EH 103.* A survey of the mass media and their Inter-relationship with each other and society. Emphasis will be placed on how mass communication functions in a multi-ethnic, gender-diverse environment. Includes perspectives on the history and role of professionals and institutions in shaping communication.
- 205. Intro to Broadcast Writing (3).** *Prerequisite: EH 101 or EH 103.* Basic writing for electronic media. Includes news, features, press releases and advertisements. Emphasis placed on how news, psa's and commercials are filtered through—and shaped by—multi-ethnic, gender-diverse writers.
- 301. Intro to TV Production (3).** *Prerequisites: COM 200 and EH 101 or EH 103.* Practical training in the fundamentals of audio and video production techniques pertaining to TV studio production, including various exercises in each production area. Includes introduction to producing and directing. Productions regarding diversity issues are required.
- 302. Intro to Audio Production (3).** *Prerequisites: COM 200 and 205.* Introduction to audio concepts and production methods. Includes recording, editing, control room technique, and radio station practice.
- 305. Advanced Audio Production (3).** *Prerequisite: COM 302.* Course affords students the opportunities to sharpen their skills in the recording, editing and mastering of audio for various media venues. Students will choose one of three “tracks” of Interest that permits them to: 1. Work alongside video production and editing students in a post-production environment; 2. Record and produce two tracks for a contemporary musical or spoken word CD; or 3. Record and produce a series of commercials of varying lengths for local merchants. Productions regarding diversity issues are required.
- 307. Media Literacy (3).** Learn analytical and critical skills to develop an awareness and understanding of the effects of media, including profit and emotional strategies, portrayals of diversity, stereotypes, love, myths, and other issues.
- 315. Intro to News (3).** *Prerequisites: EH 101 or EH103, EH 102 or EH104, COM 200.* Fundamentals of news reporting, writing and copy editing for digital media, dealing with modern news-room issues, including diversity, community involvement and convergence. Requires out-of-class assignments.
- 317. Editing (3).** *Prerequisites: COM 315 or COM 205.* Teaches skills for copyeditors and others in the processing of news, features and press releases. Students learn to question statements of fact, challenge assumptions, edit for length, taste, ethics, diversity, and libel while correcting errors of both grammar and style, according to the Associated Press Stylebook.
- 320. Video Production and Editing (3).** *Prerequisites: COM 301.* Videography and editing of programs and/or announcements produced with portable equipment. Students produce, direct, write, shoot, and edit individual productions. Productions regarding diversity issues are required.
- 325. Publication Design (3).** *Prerequisite: COM 205 or 315.* Arranging and editing text, photographs, graphics and other materials from diverse sources for digital media.
- 330. Intro to Public Relations (3).** *Prerequisites: EH 101 or EH 103, COM 200.* Basic concepts of public relations, including history, theory, organization and ethics. Writing emphasized.
- 340. Public Relations Writing (3).** *Prerequisite: COM 330.* The development of professional public relations writing skills. Effective methods of conceptualizing, researching and presenting information to the relevant publics.
- 345. Social Media and Society (3).** *Prerequisites: EH 102 or EH 104.* What are social media, who uses them, who gains from them, and how are they transforming the media landscape and the way we communicate? Students will become familiar with a range of social media tools, analyze and discuss their uses and implications, and develop participation literacy. They will have the opportunity to explore both theory and practice of social media through writing assignments, interactive assignments, and course projects.
- 350. Announcing (3).** Fundamentals of voice and diction applied to audio and video media delivery. Includes commercials, news, interviews, and ad-lib announcing.

- 358. Communication Theory (3).** *Prerequisites:* COM 200, Junior standing or instructor's permission. Theories of the processes and effects of mass communication, including the discussion and analysis of research findings on race, gender, and ethnicity. Also deals with numbers for journalists—basic math and statistics for journalists.
- 375. Internet Production (3).** *Prerequisites:* Junior standing and COM 205 or COM 315, or special permission of instructor. This course focuses specifically on online journalism techniques; reporting, writing and editing news/Information for Interactive media, particularly the Internet. Covers web usability, web design and HTML authoring while requiring both journalistic and computer skills.
- 380. Communication Law (3).** *Prerequisites:* Junior standing and permission of instructor. Study of legal systems of state and nation as related to media, including libel, privacy, copyright, access, contract, and First Amendment issues. Emphasis on gender, religion, ethnic diversity and sexual orientation issues as they apply to communication law.
- 385. Multimedia Design.** *Prerequisites:* COM 301, COM 325, and COM 375. Students will practice and develop the skills necessary for planning and producing effective multimedia programs. They will be introduced to planning strategies, production techniques, and software involved in multimedia production. Each student will demonstrate basic proficiencies across a wide spectrum of multimedia. Emphasis will be on visual, audio and typographic design as well as the appropriateness of these elements for specific goals. The use of advanced electronic technologies will also be emphasized. Through a series of individual component assignments, students will develop a capstone multimedia presentation to be included in their portfolio.
- 390. Communication Ethics (3).** *Prerequisites:* Junior standing and permission of instructor. Ethical foundations of the media, including the interrelationships of the media, the public, and the government. Emphasis on gender, religion, ethnic and sexual orientation issues applicable to the communication profession.
- 400. Public Relations Case Studies (3).** *Prerequisite:* COM 330. The development of public relations practice skills based on the analysis of contemporary and historical case studies.
- 401. Media Advertising and Sales (3).** *Prerequisites:* EH 101 or EH 103, and junior standing. Theory and application of advertising, sales, and copywriting in the print and electronic media.
- 404. Media Workshop-1 (1).** *Prerequisite:* Permission of instructor. Supervised assignments demonstrating development of high-level competencies and skills in various areas of the media.
- 405. Media Workshop-2 (1).** *Prerequisite:* COM 404 and permission of instructor. Supervised assignments demonstrating development of high-level competencies and skills in various areas of the media.
- 406. Media Workshop-3 (1).** *Prerequisite:* COM 405 and permission of instructor. Supervised assignments demonstrating development of high-level competencies and skills in various areas of the media. This course can be taken concurrently with COM 407, if necessary.
- 407. Advanced Media Workshop-1 (1).** *Prerequisite or co-requisite:* COM 406; and permission of instructor. Advanced assignments demonstrating development of higher-level competencies and skills in various areas of the media.
- 408. Advanced Media Workshop-2 (1).** *Prerequisite:* COM 407; and permission of instructor. Advanced assignments demonstrating development of higher-level competencies and skills in various areas of the media. This course can be taken concurrently with COM 411.
- 410. Media Features (3).** *Prerequisites:* COM 315 and permission of instructor. Principles and practices of writing features. Requires out-of-class assignments.
- 411. Advanced Media Workshop-3 (1).** *Prerequisite or co-requisite:* COM 408; and permission of instructor. Advanced assignments demonstrating development of higher-level competencies and skills in various areas of the media.
- 415. Mass Communication Research (3).** *Prerequisites:* COM 200, second semester junior in communication. Pre- or co-requisite: MS 108. Fundamentals of research methodologies in mass communication. Prepares students to become familiar with, and develop the understanding and ability to apply research concepts to mass communication problems. Major topics include, among others, sampling, survey research, basic statistics, and diversity issues in mass communication research.
- 420. Advanced Reporting (3).** *Prerequisites:* COM 315, 380, 390 and 415. News gathering and writing for the digital media with emphasis on deadline and beat reporting. Copy editing is included as are modern newsroom issues, such as diversity and community involvement. This is a capstone course—a culminating experience that integrates coursework, knowledge, skills and other experiences in digital journalism. It serves as a venue for learning outcomes assessment.
- 425. Media Management (3).** *Prerequisites:* Junior standing and permission of instructor. Principles and practices for management of print and electronic media facilities.
- 440. Public Relations Campaign Management (3).** *Prerequisites:* COM 330, 340, 380, 390, 400, and 415. The use of effective principles and techniques to plan, execute, and evaluate public relations campaigns. This is a capstone course, a culminating experience that integrates coursework, knowledge, skills and other experiences in public relations. Major subjects include diversity in communication and public relations issues. It serves as a venue for learning outcomes assessment.
- 470. Advanced Electronic News (3).** *Prerequisite:* COM 320, 380, 390, 415. Principles and practices for gathering, writing, reporting and producing news for electronic media. Requires out-of-class assignments. This is a capstone course—a culminating experience that integrates coursework, knowledge, skills and other experiences in broadcast

journalism. Major subjects include diversity in communication. It serves as a venue for learning outcomes assessment.

- 475. Directed Study (3).** *Prerequisite: Permission of instructor.* Supervised study permitting students to pursue specific areas of interest in communication.
- 491. Internship (3)** – *is a required course for all communication majors.* Before registering for COM 491 a student must have satisfactorily completed specific courses in her/his area of concentration. The areas of concentration and their requirements for internship are:
 Broadcasting—COM 205, 301, 302, 404, and 405
 Digital Journalism—COM 315, 325, 375, 404, and 405
 Public Relations—COM 315, 325, 330, and 340

DEPARTMENT OF CURRICULUM AND INSTRUCTION

312 RAMONA WOOD HALL

Department Head: Bavonese
Professors: Beard, Engley, Thornburg
Associate Professors: Gardner, Staubs
Assistant Professors: Bavonese, Connor, Johns, Troncale, Trucks
Instructors: Calhoun, Wheat, Owens, Weathers

The Department of Curriculum and Instruction offers Bachelor of Science in Education degrees in the areas of Elementary/Early Childhood and Collaborative Education. Upon program completion students will be eligible to apply for the Baccalaureate level Professional Teaching Certificate.

Elementary /Early Childhood Education

Students majoring in elementary/early childhood education are required to complete an approved program consisting of 122 hours leading to a Bachelor of Science Degree in Education. Students will enroll in the ECE Block classes (ECE 303, RDG 304, ECE 306 and 309) before taking the Literacy Block (RDG 312, EED 339, RDG 342, EED 344) and the Content Block (EED 340, 341, 343, 362). Upon completion of this program, a student will be eligible to apply for the Baccalaureate level Professional Certificate which provides teacher certification for elementary (K-6) and levels preschool through grade three (P-3). Teacher Education Programs may be altered to meet changes in federal and Alabama State Department of Education regulations.

ELEMENTARY /EARLY CHILDHOOD EDUCATION

FRESHMAN YEAR

Fall	Spring
EH 101, Composition3	EH 102, Composition3
HY3	EH 141, Oral Communication.....3
MS 112*, Algebra3	BY 102, 1044
By 101, 1034	MS*3
Soc/Beh Science3	Soc/Beh Science3
Fine Arts3	HY3
STU 101.....0	
<hr/> 19	<hr/> 19

SOPHOMORE YEAR

Fall	Spring
Literature in Sequence3	Literature in Sequence3
MS*3	ED 300, Intro to Teacher Educ2
Science**4	SPE 300, Survey of Except Child3
FCS 352/353 Child Growth & Development.....3	EED 350 Diversity in the Modern Class3
	MS*3
<hr/> 13	<hr/> 14

JUNIOR YEAR

Fall	Spring
ECE 303, Intro Early Child3	RDG 312, Children's Literature3
RDG 304, Early Literacy3	EED 339, Integ Theory & Prac3
ECE 306, Practicum in ECE3	RDG 342, Teaching Reading3
ECE 309 21 st Century Tch & Lrng Pt 13	EED 344, Develop Lang Arts3
EED 310 Foundations of Effective Teaching3	EED 409 21 st Century Tch & Lrng Pt 2.....3
15	15

SENIOR YEAR

Fall	Spring
EED 340, Practicum in Content3	ED 495, Internship in Education.....6
EED 341, Teaching Math 3	ED 496, Reflective Practices in Ed.3
EED 362, Teaching Science3	ECE 407, Assessment3
EED 343, Teaching Soc Studies3	
RDG 354 Reading Diagnosis3	
15	12

TOTAL HOURS: 122

Note: All professional education courses and selected teaching field courses must be completed at JSU and may not be transferred from another institution. Please check with your academic department for a complete list of these courses. ***MS 110 and higher is required for the mathematics requirements, MS 112 (Required) and MS 133, 134, and 135 are suggested.**

Collaborative Education K-6 and 6-12 (CLD)

Students majoring in collaborative education K-6 and 6-12 are required to complete approved program consisting of 122 hours leading to a Bachelor of Science Degree in Education. Students will enroll in the Elementary Mild Block (SPE 331, 332, 337, 340, and RDG 343) first, followed by the Secondary Mild Block (SPE 334, 336, 338, 339, and 341), and the Collaborative Severe Block (SPE 426, 427, 440, 441). Upon completion of this program, a student will be eligible to apply for the Baccalaureate level Professional Certificate which provides certification in Special Education at the K-6 and 6-12 level. Teacher Education Programs may be altered to meet changes in federal and Alabama State Department of Education regulations.

FRESHMAN YEAR

Fall	Spring
EH 101, Composition3	EH 102, Composition3
HY3	EH 141, Oral Communication3
MS 112*, Algebra3	BY 102, 1044
BY 101, 1034	MS*3
Soc/Beh Science3	PSY 201 Principles of Psychology3
Fine Arts3	
STU 101.....0	
19	16

SOPHOMORE YEAR

Fall	Spring
Literature in Sequence3	Literature in Sequence3
PSY 330 Abnormal Psychology3	MS*3
MS*3	SPE 335 Dov & Culturally Resp Teaching3
Physical Science & Lab4	ED 300.....2
PSY 222 Human Development3	SPE 300 Survey of Spec Ed3
Fine Arts3	
19	14

JUNIOR YEAR

Fall	Spring
SPE 337 Collaboration in Elementary3	SPE 334 Assistive/Education Tech3
SPE 331 SPE Administrative Processes3	SPE 336 Clinical Observation.....1
SPE 332 Medical, Legal, & Ethical Issues3	SPE 339 Collaborative Proc in Secondary3
SPE 340 Practicum in Mild K-62	SPE 341 Practicum in Mild 6-122
RDG 343 Collaborative Reading3	SPE 338 Collaborative Math.....3
14	12

SENIOR YEAR

Fall	Spring
SPE 423 Methods for Severe3	SPE 425 Methods in Autism Spect. Disord3
SPE 427 Behavior, Classroom Mgt, Transition3	ED 495 Internship in Education6
SPE 426 Augmentative and Altern. Comm.3	ED 496 Reflective Practices in Education3
SPE 440 Practicum in Severe Disabilities K-62	
SPE 441 Practicum in Severe Disabilities 6-122	
13	12

TOTAL HOURS: 122

Note: All professional education courses and selected teaching field courses must be completed at JSU and may not be transferred from another institution. Please check with your academic department for a complete list of these courses. *MS 110 and higher is required for the mathematics requirements, MS 112 (Required) and MS 133, 134, and 135 are suggested.

* Math approved courses.

** Science from two different areas other than Biology.

DESCRIPTION OF COURSES (ECE)

- 303. Introduction to Early Childhood Education (3).** *Corequisites: RDG 304, ECE 306, and ECE 309.* An introduction to the historical, philosophical, and cultural aspects of early childhood education. Requires Teacher Education Program eligibility.
- 306. Practicum in Early Childhood Education (3).** *Corequisites: ECE 303, ECE 309, and RDG 304.* Provides pre-service teachers with the opportunity to observe and apply theories and concepts in the classroom. Requires Teacher Education Program eligibility.
- 407. Assessment of Young Children (3).** Review of developmentally appropriate assessment for young children. Included will be reviews of portfolios, standardized tests, state required assessment, anecdotal records, observations, rating scales, and creation of teacher-made assessments. Requires Teacher Education Program eligibility.
- 309. 21st Century Teaching and Learning Part 1 (3).** *Corequisites: ECE 303, 306, and RDG 304.* Prepares teacher candidates for integrating the arts and new technologies into the P-3 curriculum. Emphasis will be placed on introducing 21st Century skills (communicating, collaborating, creating, and critical thinking), project- and inquiry-based learning and common core standards. Requires Teacher Education Program eligibility.

DESCRIPTION OF COURSES (EED)

- 310. Foundations of Effective Teaching (3).** This course investigates techniques, strategies, and curriculum design in the elementary grades. Students learn how to integrate content areas, effective teaching and learning strategies, and methods for problem-solving/critical thinking. Requires Teacher Education Program eligibility.
- 339. Integrating Theory/Practice (3).** *Corequisites: RDG 312, 342, EED 344.* Provides prospective teachers an opportunity to observe, analyze, and apply concepts and theories in schools and classrooms. Requires Teacher Education Program eligibility.
- 340. Content Practicum (3).** *Prerequisites: All core math and science, and social studies courses and the Literacy Block (EED 339, RDG 312, 342, EED 344). Corequisites: EED 341, 343, and 362.* Provides preservice elementary teachers an opportunity to observe, analyze, and apply math, science, and social studies concepts and theories in schools and classrooms. Requires Teacher Education program eligibility.

341. **Mathematics for Children (3).** *Prerequisites: Math 112 and other core math courses. Corequisites: EED 340, EED 343 and EED 362.* Materials and methods in the teaching of elementary mathematics concepts and processes. Requires Teacher Education Program eligibility.
343. **Curriculum Integration in Teaching Social Studies (3).** *Corequisites: EED 341, 362, and 340.* Methods and materials of teaching social studies in the elementary grades. Requires Teacher Education Program eligibility.
344. **Developing Language Skills (3).** *Corequisites: RDG 312, RDG 342, and EED 339.* Techniques and strategies for promoting communication skills among young learners, with emphasis on the interrelatedness of the language modes. Requires Teacher Education Program eligibility.
362. **Science for Children (3).** *Prerequisites: All core science courses. Corequisites: EED 340, 341, and 343* Methods, materials, laboratory demonstration, and organization of science concepts and processes taught in the elementary grades. Requires Teacher Education Program eligibility.

DESCRIPTION OF COURSES (RDG)

304. **Early Literacy (3).** Corequisites: ECE 303, ECE 306, and ECE 309. Materials and methods of teaching literacy in early childhood. Foundations of literacy development including reading, writing, listening, spelling, and speaking will be emphasized. Requires Teacher Education Program eligibility.
311. **Early Childhood Reading and Literature for the 21st Century (3).** Corequisites: SPE 423, SPE 424, SPE 426, SPE 441. eligibility for and successful completion of the ECE block.
312. **Children's Literature (3).** Corequisites: EED 339, RDG 342, EED 344. Evaluation of books for children, selection criteria, and the interests, needs and abilities of children emphasized. Requires Teacher Education Program eligibility.
342. **Teaching Reading (3).** Prerequisite: RDG 304. Corequisites: RDG 312, EED 339, and EED 344. Methods, materials, and research findings concerned with beginning reading instruction and literacy development for the elementary grades. Requires Teacher Education Program eligibility.
343. **Collaborative Reading (3).** Corequisites: SPE 331, SPE 332, SPE 337, and SPE 340. The purpose of this course is to provide information regarding methods, materials, and research findings concerned with beginning reading instruction for the elementary grades. Requires Teacher Education Program eligibility.
354. **Reading Diagnosis (3).** Prerequisites: RDG 304, RDG 342. Methods and materials in reading and literacy development in elementary grades with emphasis on diagnostic, remediation, and enrichment strategies along with progress monitoring of reading progress. Requires Teacher Education Program eligibility.

DESCRIPTION OF COURSES (SPE)

300. **Survey of Exceptional Children and Youth (3).** An introductory course to the field of exceptional children and youth.
330. **Assessment of Teaching and Learning (3).** Prerequisite: SPE 300, SPE 331, and SPE 332. Introduction to assessment, techniques appropriate in evaluating teaching/learning of exceptional students, legal considerations and development of Individualized Educational Programs. Requires Teacher Education Program eligibility.
331. **Special Education Administrative Processes (3).** Prerequisite: SPE 300. Co-requisites: SPE 332, SPE 337, SPE 340, and RDG 343. Administrative processes for special education including Mastering the Maze, planning for classroom, Individualized Education Planning, Lesson Planning, SETS training, Introduction of Behavior Intervention Plans and Transition Plans.
332. **Medical, Legal, & Ethical Issues (3).** Prerequisite: SPE 300. Corequisites: SPE 331, SPE 337, SPE 340, and RDG 343. This course will cover federal laws, rules, and regulations governing and/or impacting on programs for exceptional students, litigation cases that have impact on individual with exceptionalities, interdisciplinary collaboration with health care professionals and other agencies, the role other disciplines and agencies play in meeting the needs of children with exceptionalities, the needs and management techniques for students who have communicable diseases and medical diagnosis or who are considered medically fragile and the adverse effect of these conditions on learning and family functioning, medications, administration of medications, and school healthcare procedures, and professionalism and ethics in teaching individuals with exceptionalities. Requires Teacher Education Program eligibility.
334. **Educational and Assistive Technologies (3).** Prerequisite: SPE 300 and Teacher Education Program eligibility. Corequisites: SPE 336, SPE 338, SPE 339, and SPE 341. This course is designed to examine the many accessibility features within a computer as well as hand held devices. This course will also cover how to utilize accessibility features and applications to meet individual student needs within the school setting.
335. **Diversity and Culturally Responsive Teaching (3).** This course will center on the necessity of culturally responsive teaching beginning with the preparation of the prospective teacher. Students will determine the importance of including students' cultural references in all aspects of teaching while continually examining their own. There will be an emphasis on cultural and linguistic diversity and exceptionally. May be taken prior to Teacher Education Program eligibility.

336. **Clinical Observation of Special Education K-12 (3).** Prerequisite: SPE 300. Corequisites: SPE 334, SPE 338, SPE 339, and SPE 341. Clinical Observation. In school observation of special education classrooms and inclusive general education classrooms for students with mild and severe disabilities. Requires Teacher Education Program eligibility.
337. **Collaboration Process for the Elementary Inclusive Classroom (3).** Prerequisite: SPE 300. Corequisites: SPE 331, SPE 332, SPE 340, and RDG 343. Strategies for meeting educational needs of students with mild disabilities in elementary inclusive general education classrooms or special education classrooms. Includes collaboration, co-teaching, and response to intervention procedures. Requires Teacher Education Program eligibility.
338. **Collaborative Math (3).** Corequisites: SPE 334, SPE 336, SPE 339, and SPE 341. This course focuses on strategies for math instruction for students with disabilities in K-12 general education and special education classrooms. Requires Teacher Education Program eligibility. Must have already satisfied Math requirements as outlined on degree checksheet.
339. **Collaborative Processes in Secondary Classrooms (3).** Prerequisite: SPE 300. Corequisites: SPE 334, SPE 336, SPE 338, and SPE 341. This course is designed to provide students with an understanding of collaborative and co-teaching models and prepare them to implement these models in the inclusive setting. The course also covers student engagement, overview of course content standards and how to plan neurodiversity within the inclusive secondary classroom. Requires Teacher Education Program eligibility.
340. **Practicum in Mild Disabilities K-6 (2).** Prerequisite: SPE 300. Corequisites: SPE 331, SPE 332, SPE 337, and RDG 343. Directed experiences in observation and participation in special education classrooms and inclusive general education classrooms (K-6) with students with mild disabilities. Requires Teacher Education Program eligibility.
341. **Practicum in Mild Disabilities 6-12 (2).** Prerequisite: SPE 300 and Teacher Education Program eligibility. Corequisites: SPE 334, SPE 336, SPE 338, and SPE 339. Directed experiences in observation and participation in special education classrooms and inclusive general education classrooms (6-12) with students with mild disabilities.
349. **Collaboration in the Secondary Classroom (3).** This course is designed to provide students with an understanding of collaborative and co-teaching models and prepare them to implement these models in the inclusive setting. The course also covers student engagement, overview of course content standards, and how to plan neurodiversity within the secondary classroom. Requires Teacher Education Program eligibility.
387. **Sign Language and Deafness I (3).** Introduces major sign systems used by the deaf. Students acquire basic sign vocabulary of 750 words and idiomatic expressions.
388. **Sign Language and Deafness II (3).** Prerequisite: SPE 387 or permission of instructor. Continues acquisition of sign vocabulary and focuses on development of ASL and Pidgin skills.
423. **Methods for Severe Disabilities (3).** Prerequisite: SPE 300. Corequisites: SPE 426, SPE 427, SPE 440, and SPE 441. This course will include accommodations and modifications to the instructional program to assist students with severe disabilities succeed. Topics covered will include assistive technology, self-contained and resource room models, extended standards, task analysis, physical management, lifting, wheel chair maintenance, ambulation, positioning, and communication skill development, including AAC. Requires Teacher Education Program eligibility.
424. **Methods and Strategies for Learning and Behavior K-12 (3).** Prerequisite: SPE 300. This course is designed to introduce inclusion strategies for creating an inclusive environment, individual curricular and instructional accommodations, as well as individual assessment and program evaluation for students with disabilities in a variety of educational settings. Requires Teacher Education Program eligibility.
425. **Methods for Autism Spectrum Disorder (3).** Prerequisite: SPE 300. This is a weekly seminar that focuses on Autism Spectrum Disorder. It consists of a series of seminars on major topics related to ASD such as: historical timeline, diagnosis and assessment, advocacy, current research and statistics, behavioral interventions, classroom supports and services, transition and it covers the lifespan. Requires Teacher Education Program eligibility.
426. **Augmentative and Alternative Communication (3).** Prerequisite: SPE 300. Co-Requisites: SPE 423, SPE 427, SPE 440, SPE 441. Instruction of classroom strategies for teaching communication skills to students with low-incidence disabilities. Included will be how to assess existing communication abilities of students with severe disabilities, and instruction on how to integrate use of aided and unaided augmentative and alternative communication (AAC) to include finger spelling, sign language, gestures, body language (total communication), augmentative and alternative communication systems and voice output communication aids (VOCAS), both low-tech and high-tech. Requires Teacher Education Program eligibility.
427. **Behavior, Classroom Management, and Transition (3).** Prerequisites: SPE 300 and Teacher Education Program eligibility. Corequisites: SPE 423, SPE 426, SPE 440, and SPE 441. Examines effective inclusive teaching, planning for neurodiversity in the classroom, behavior management, applied behavioral analysis, functional assessment, positive behavioral support and behavior intervention, as well as, providing the knowledge and skills focused on development and implementation of school and community-based vocational and employment programs for students with disabilities.
440. **Practicum in Severe Disabilities K-6 (2).** Corequisites: SPE 423, SPE 426, SPE 427, and SPE 441. Practicum in Low Incidence/Severe Disabilities. Directed experiences in observation and participation in special education

classrooms for students with severe disabilities. Seminars will be held in conjunction with this course. Requires Teacher Education Program eligibility.

- 441. Practicum in Severe Disabilities 6-12 (2).** Corequisites: SPE 423, SPE 427, SPE 426, SPE 440. Practicum in Low Incidence/Severe Disabilities. Directed experiences in observation and participation in special education classrooms for students with severe disabilities in secondary school settings. Seminars will be held in conjunction with this course. Requires Teacher Education Program eligibility.

DEPARTMENT OF EDUCATIONAL RESOURCES

304 RAMONA WOOD HALL

Department Head: VACANT

Professors: J. Kiser, Turner, Webb

Associate Professors: Barnes, Wallace

Assistant Professors: Allen, McGahey, Paynter, Warfield, Wilson, Young

The Department of Educational Resources offers service courses in educational foundations, educational psychology, and instructional media. In addition, the Department provides graduate programs in Counselor Education, Instructional Leadership and Library Media. Teacher Education Programs may be altered to meet changes in federal and Alabama State Department of Education regulations.

EDUCATIONAL PSYCHOLOGY (EPY)

DESCRIPTION OF COURSES

- 429. Developmental Psychology (3).** *Corequisite: 430.* Covers stages of physical, cognitive, and social-emotional development in school-aged persons from a global and multicultural perspective. This course is a prerequisite for ESE 404 and ESE 484.
- 430. Developmental Psychology Lab. (0).** Provides a 25 clock-hour, Level II clinical experience, supervised through the Teaching/Learning Center, Ramona Wood Hall.

INSTRUCTIONAL MEDIA (EIM) DESCRIPTION OF COURSES

- 300. Introduction to Education Technology (2).** This course is designed to prepare professional educators to effectively develop and use technology rich activities in the student centered classroom. Activities will correlate to the eight learning outcomes and will include ISTE-NETS standards and state and national content standards.

DEPARTMENT OF SECONDARY EDUCATION

206 RAMONA WOOD HALL

Department Head: Sims

Professor: Akpan

Associate Professor: Mitchell

Assistant Professor: Brownsberger, Conway, Hammack, Rubin, Sims

Students majoring in Secondary Education are required to complete an approved program consisting of 122-128 hours leading to a Bachelor of Science Degree in Education. Upon completion of an approved program, students will be eligible to apply for the Baccalaureate level Professional Certificate. Teacher Education Programs may be altered to meet changes in federal and Alabama State Department of Education regulations.

TEACHER EDUCATION PROGRAMS OFFERED

SECONDARY EDUCATION P-12 PROGRAMS

Music - Instrumental

Music - Vocal/Choral

Spanish

SECONDARY EDUCATION 6-12 PROGRAMS

Biology
General Science

Mathematics

Business and Marketing
Social Studies

Family & Consumer Sciences

English Language Arts
History

BACHELOR OF SCIENCE IN EDUCATION

The Secondary Education teaching fields (P-12 and Grades 6-12) require 122-128 semester hours in an approved plan of study. Specific plans of study for each teaching field are available from the Teacher Service Center, 207 Ramona Wood Hall.

STUDENTS MUST SEE THEIR ASSIGNED ADVISOR IN THE COLLEGE OF EDUCATION AND PROFESSIONAL STUDIES TO INSURE COMPLIANCE WITH THEIR APPROVED PLAN OF STUDY.

Note: All professional studies education courses and selected teaching field courses must be completed at JSU and may not be transferred from another institution. Please check with your academic department for a complete list.

Minor in Secondary Education: An undergraduate student may minor in Secondary Education by completing the following 21-semester hours of coursework. ED 300 (2) Introduction to Teacher Education; ESE 300 (1) Introduction to Educational Foundations; ESE 329 (3) Adolescent Development and Behavior; *ESE 349 (3) Collaboration and Special Education; *ESE 383 (3) Content Literacy; *ESE 440 (3) Diversity and Multicultural Education; *ESE 304 (3) Curriculum Planning and Learning Styles; *ESE 455 (3) Classroom Management. *Requires eligibility to Teacher Education.

SECONDARY EDUCATION (ESE) DESCRIPTION OF COURSES

The curriculum in Secondary Education is for students seeking certification in grades 6-12. The Department of Secondary Education's attendance policy requires students to attend 90% of all scheduled class meetings. All field experiences (i.e., ESE 304, 306, and 485) require proof of liability insurance.

- 300. Introduction to Educational Foundations (1).** *Corequisite: ED 300.* This course provides an introduction to foundations of education, including responsibilities of various governmental and agency levels, and the understanding of how systems of education in the US operate; school governance; and the inclusion of stakeholders in the public educational process.
- 304. Curriculum Planning and Learning Styles. (3).** *Prerequisites: ED 300 and ESE 300. Corequisite: ESE 455. Requires Teacher Education Program eligibility.* Provides an introduction to all aspects of appropriate curriculum planning for secondary educators, differentiation required for teaching in the diverse classroom, and the learning differences that make this differentiation necessary. The course includes a 50-hour practicum component.
- 306. Integrated Instructional Design (3).** *Prerequisites: ED 300, ESE 300, 304, and 455. Corequisite: ESE 444. Requires Teacher Education Program eligibility.* Provides an introduction to the integration of engaging instructional strategies, a variety of assessments, appropriate technologies, literacy strategies, and teaching field standards from multiple disciplines into an engaging and effective instructional design for any course he or she teaches. The course includes a 50-hour practicum component.
- 329. Adolescent Development and Behavior (3).** This course addresses the stages of physical, cognitive, and social-emotional development of adolescents at the middle and high school levels from a global and multicultural perspective as well as the range of behaviors exhibited by adolescents during the secondary school years in order to facilitate better decision-making by educators related to the appropriate developmental and behavioral expectations for students at the secondary level.
- 383. Content Literacy (3).** *Prerequisite: Teacher Education Program eligibility.* This course addresses both theory and practice associated with content literacy.
- 420. Teaching Mathematics (3).** *Prerequisites: ESE 304, 306, 329, 444, and 455. Corequisites: The appropriate section of ESE 485.* In addition, students are encouraged to complete 90% of all teaching field courses prior to enrollment in this course. Materials and methods of teaching mathematics at the secondary level. Requires Teacher Education Program eligibility. Offered in the fall and spring semesters only.
- 421. Teaching Social Studies (3).** *Prerequisites: ESE 304, 306, 329, 444, and 455. Corequisites: The appropriate section of ESE 485.* Materials and methods of teaching history and other social sciences at the secondary level. Requires Teacher Education Program eligibility. In addition, students are encouraged to complete 90% of all teaching field courses prior to enrollment in this course. Offered in the fall and spring semesters only.
- 422. Teaching English Language Arts (3).** *Prerequisites: ESE 304, 306, 329, 444, and 455. Corequisites: The appropriate section of ESE 485.* In addition, students are encouraged to complete 90% of all teaching field courses prior to enrollment in this course. Materials and methods of teaching language arts at the secondary level. Requires Teacher Education Program eligibility. Offered in the fall and spring semesters only.
- 423. Teaching General Science (3).** *Prerequisites: ESE 304, 306, 329, 444, and 455. Corequisites: The appropriate section of ESE 485.* In addition, students are encouraged to complete 90% of all teaching field courses prior to enrollment in this course. Materials and methods of teaching natural and physical sciences at the secondary level. Requires Teacher Education Program eligibility. Offered in the fall and spring semesters only.
- 424. Foreign Language Methods (3).** *Prerequisites: ESE 304, 306, 329, 444, and 455. Corequisites: The appropriate section of ESE 485.* In addition, students are encouraged to complete 90% of all teaching field courses prior to enrollment in

this course. Materials and methods of teaching foreign language at the secondary level. Requires Teacher Education Program eligibility. Offered in the fall and spring semesters only.

- 426. World History in Secondary Schools (3).** *Prerequisites: HY 101, 102, 201 and 202.* Reviews the history of numerous regions around the world that are outside of the North American/European frame, considers the importance of these regions independently and collectively through historical and current lenses, reviews the secondary education standards related to the teaching of world regions and history. Considers research-based, best practices for teaching various world history content as well as incorporating these practices when teaching other history and/or social studies content that requires the inclusion of some world history. Spring semester only.
- 427. Government, Economics, and Geography in Secondary Schools (3).** *Prerequisites: HY 101, 102, 201 and 202.* This course reviews the history and structure of various government types through both historical and current lenses, considers the impact and influence of economics and geography on human history, reviews the secondary education standards related to the teaching of government, economics, and geography. Considers research-based, best practices for these subjects as well as incorporating these practices when teaching a variety of history and/or social studies courses that require the inclusion of government, economics, and geography. Fall semester only.
- 433. Teaching Literature in Secondary Schools (3).** *Prerequisites: EH 101, 102, 141, 201 and 202.* This course is designed to expose pre-service English language arts teachers to critical theory, history, and standards, which are embedded in the multiple roles of teaching literature in secondary schools. Opportunities for students to examine and evaluate current issues, research, as well as the integration of diverse instructional strategies in all program coursework will be explored. Spring semester only.
- 434. Teaching Writing in Secondary Schools (3).** *Prerequisites: EH 101, 102, 141, 201, and 202.* This course is designed to expose English language arts students to critical theory, history, and standards, which are embedded in the multiple roles of teaching writing in secondary schools. Practical instructional strategies in teaching writing through traditional and new literacies will be explored. Fall semester only.
- 440. Diversity and Multicultural Education (3).** *Prerequisites: ED 300 and ESE 300. Requires Teacher Education Program eligibility.* Develops a broad understanding of the student diversity in secondary schools in the United States. Various approaches to multicultural education will be employed to equip teacher candidates with teaching a diverse student population.
- 444. Assessment (3).** *Prerequisites, ESE 304, 329, and 455. Corequisite: ESE 306. Requires Teacher Education Program eligibility.* This course is an introduction to developmentally appropriate evaluation of teaching/learning at the secondary level and use of assessment to improve student outcome.
- 455. Classroom Management. (3).** *Prerequisites: ED 300 and ESE 300. Corequisite: ESE 304. Requires Teacher Education Program eligibility.* Provides an introduction to the major theories related to classroom management and appropriate application of these theories into the secondary school environment.
- 455. Classroom Management. (3).** *Prerequisites: ED 300 and ESE 300. Corequisite: ESE 304. Requires Teacher Education Program eligibility.* Provides an introduction to the major theories related to classroom management and appropriate application of these theories into the secondary school environment.
- 485. Senior Practicum (3).** *Prerequisites: ESE 304, 306, 329, 444, and 455. Corequisites: The appropriate special methods course ESE 420-424. Also, students are encouraged to have 90% of all teaching field courses completed prior to enrollment in this course.* A 150 clock-hour, supervised Level III clinical experience in Grades 6-12. Requires Teacher Education Program eligibility. Offered in the fall and spring Semesters only.
- 496. Contemporary Issues in Secondary Education (3).** *Prerequisites: All general studies, professional field, and teaching field course must be completed prior to this course.* This course offers an in-depth study of critical contemporary issues facing teacher leaders in the secondary environment; classroom management, communication, professional ethics, diversity and evaluation. This course may be taken in conjunction with ED 495 and 496.

DEPARTMENT OF FAMILY AND CONSUMER SCIENCES

215 EAST MASON HALL

Department Head: Goodwin
Associate Professors: Goodwin, Roberts
Assistant Professor: Townsel
Instructors: Boggs, Frazier, Marsh

The Department of Family and Consumer Sciences offers two degree programs: (1) **Bachelor of Science in Education Degree in Family and Consumer Sciences and support courses for a Bachelor of Science in Education Degree in Business Marketing Education;** (2) **Bachelor of Science Degree with a major in Family and Consumer Sciences with six concentrations:** Child Development, Community Nutrition, Dietetics, Human Sciences, Merchandising, and Hospitality and Culinary Management. Minors offered within the department include: Family and Consumer Sciences, Child Development, Fashion Merchandising, Nutrition and Foods, Hospitality and Culinary Management, and Human Sciences. The minor in Family and Consumer Sciences may be earned by completing 21 hours to include the following

courses: FCS 122, 131 or 331, 215 or 322, 352 and 353, 355, 371, and 471. The department of Family and Consumer Sciences is accredited by the American Association of Family and Consumer Sciences

BACHELOR OF SCIENCE IN EDUCATION

Teaching Field in Family and Consumer Sciences Education

A Bachelor of Science in Education degree in Family and Consumer Sciences Education is offered. Students who meet the requirements for this major will be eligible to apply for a baccalaureate level Professional Certificate. This certificate is acceptable for the teaching of Family and Consumer Sciences in the secondary schools of Alabama. Majors in Family and Consumer Sciences Education are also qualified for positions in Cooperative Extension Service, business, foodservice supervision, and other related fields. Teacher Education Programs may be altered to meet changes in federal and Alabama State Department of Education regulations.

BACHELOR OF SCIENCE IN EDUCATION

Teaching Field: Family and Consumer Sciences Education

FRESHMAN YEAR

Fall	Spring
EH 101 English Composition I.....3	EH 102 English Composition II3
Social Sciences3	EH 141 Oral Communication.....3
MS 110 Finite Mathematics.....3	Sciences4
FCS 122 Fundamentals of Food Preparation3	Social Sciences3
Sciences.....4	Literature3
STU 101 First Year Experience Course0	
16	16

SOPHOMORE YEAR

Fall	Spring
Social Sciences3	FCS 355 Family Life Education.....3
Fine Arts3	Social Sciences3
FCS 215 Introduction to Nutrition.....3	Social Sciences3
FCS 232 Textiles.....3	Literature or Fine Arts3
FCS 131 Clothing Construction.....3	FCS 371 Management of Family Resources3
FCS 200 Seminar in FCS... ..2	
17	15

JUNIOR YEAR

Fall	Spring
ED 300 Introduction to Teacher Education.....2	CTE 362 Principles of CTE3
CTE 350 Prof & Tech Competencies for CTE.....3	ESE 383 Content Literacy3
SPE 300 Survey of Exceptional Children and Youth or	FCS 454 Admin & Supervision in Child Care3
SPE 349 Collaboration in the Sec Classroom3	FIN 311 Personal Finance3
FCS 325 Quantity Foods.....3	FCS 352 Child Development2
FCS 331 Fashion Fundamentals3	FCS 353 Child Development Lab1
14	15

May

CTE 444 Assessment in CTE..... 3
3

SENIOR YEAR

Fall	Spring
CTE 460 Practicum in CTE3	ED 495 Internship in Education.....3
CTE 461 Effective Teaching Methods in CTE3	ED 496 Reflective Practices in Education.....6
FCS 471 Family Housing & Interiors3	CTE 475 Functions of the Coordinator3
Elective...3	
Elective3	
<hr/> 15	<hr/> 12
TOTAL HOURS 123	

*See General Studies Curriculum

Note: All professional education courses and selected teaching field courses must be completed at JSU and may not be transferred from another institution. Please check with your academic department for a complete list of these courses.

BACHELOR OF SCIENCE IN EDUCATION

Teaching Field: Business Marketing Education

FRESHMAN YEAR

Fall	Spring
EH 101 English Composition I.....3	EH 102 English Composition II3
MS 112 Precalculus Algebra3	EH 141 Oral Communication.....3
STU 101 First Year Experience Course0	Sciences4
Social Sciences3	Social Sciences3
Sciences.....4	Literature3
TEC 201 Technology3	
<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Fall	Spring
EC 2213	EC 222 Principles of Microeconomics.....3
ST 260.....4	ST 261 Statistics/Quantitative Methods II.....3
ACC 200.....3	ACC 210 Principles of Accounting I.....3
Social Sciences3	Social Sciences3
Fine Arts3	Literature or Fine Arts3
<hr/> 16	<hr/> 15

JUNIOR YEAR

Fall	Spring
ED 300 Introduction to Teacher Education.....2	CTE 362 Principles of CTE3
CTE 350 Prof & Tech Competencies for CTE.....3	ESE 383 Content Literacy3
SPE 300 Sur of Except Children and Youth	Teaching Field Class.....3
or	Teaching Field Class.....3
SPE 349 Collaboration in the Sec Classroom3	Teaching Field Class.....3
MGT 301 Principles of Management.....3	Teaching Field Class.....3
MKT 301 Principles of Marketing.....3	
Teaching Field Class.....3	
<hr/> 17	<hr/> 18

May

CTE 444 Assessment in CTE..... 3
<hr/> 3

SENIOR YEAR

Fall	Spring
CTE 460 Practicum in CTE3	ED 495 Internship in Education.....3
CTE 461 Effective Teaching Methods in CTE3	ED 496 Reflective Practices in Education6
Teaching Field Class.....3	CTE 475 Functions of the Coordinator3
Teaching Field Class.....3	
Teaching Field Class.....3	
<hr/> 15	<hr/> 12

TOTAL HOURS 127

BACHELOR OF SCIENCE

MAJOR IN FAMILY AND CONSUMER SCIENCES

Concentration: Child Development

The concentration in Child Development offers academic background and field experience necessary to understand and work with children and their families. The curriculum is designed to prepare individuals for Child Development-related careers in a variety of employment settings. Methods of delivery of the Child Development curriculum include both traditional and online versions. This concentration does not meet requirements for teacher certification.

A minor in Child Development may be obtained by completing 18 hours including: FCS 351 or 352/ 353, 355, 450, 452, 454, and 3 hours of FCS 463. The minor in Child Development provides students majoring in other fields the opportunity to develop an understanding of the nature of child development.

Child Development - Traditional Classroom

FRESHMAN YEAR

Fall	Spring
EH Comp. 101 3	EH Comp 1023
Natural Science / Analysis*4	EH 141, Oral Communication3
MS 110*Finite Math 3	HY *3
MSC 115, First Aid or HPE 109, Wellness3	Natural Science / Analysis *4
Soc/Behavioral Science *3	Fine Arts Elective *3
STU 101.....0	
<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Fall	Spring
FCS 215, Intro to Nutrition3	Literature*3
FCS 355, Family Life Ed3	CS 201*, Intro Information Tech3
HY*3	FCS 352, Child Growth & Dev2
Literature*3	FCS 353, Child Growth Lab1
ACC 200, Principles of Acc.3	Soc/Behavioral Sciences*3
FCS 122, Fund Food Prep3	SPE 300, Survey of Exceptional Child3
	FCS 200, Seminar in FCS2
<hr/> 18	<hr/> 17

JUNIOR YEAR

Fall	Spring
FCS 350 Lifespan Human Dev3	FCS 332 Soc. Cult. Aspects 3
FCS 360, Contemp Issues Human Dev3	FCS 371, Mgt. Family Resources3
FCS 450 Curriculum Plan CD3	FCS 454 Admin & Supervision CD3
FIN 311 Personal Finance Planning3	FCS 457 Adv. Child Dev II3
General Electives5	FCS 459 Family Interaction3
	General Electives2
<hr/> 17	<hr/> 17

SENIOR YEAR

Fall		Spring	
FCS 453	3	FCS 460, Dir. Field Exp CD	6
FCS 456	3	MGT 301, Principles of Mgt	3
FCS 471	3	General Electives	3
General Electives	6		
	<hr/> 15		<hr/> 12

TOTAL HOURS: 128

*See General Studies Curriculum

Child Development – Online Classroom

FRESHMAN YEAR

Fall		Spring	
EH Comp. 101.....	3	EH Comp 102.	3
Natural Science / Analysis*	4	EH 141, Oral Communication.....	3
MS 110* Finite Mathematics	3	HY*.....	3
MSC 115, First Aid or		Natural Science / Analysis*.....	4
HPE 109, Wellness	3	Fine Arts Elective*	3
Soc/ Behavioral Science*	3		
STU 101.....	0		
	<hr/> 16		<hr/> 16

SOPHOMORE YEAR

Fall		Spring	
FCS 215, Intro to Nutrition	3	Literature	3
FCS 355, Family Life Ed	3	CS 201*, Intro Information Tech	3
HY*	3	FCS 351 The Developing Child.....	3
Literature*	3	Soc/ Behavioral Sciences*	3
ACC 200, Principles of Acc.....	3	SPE 300, Survey of Exceptional Ch	3
FCS 122 Fun Food Prep	3	FCS 200, Seminar in FCS.....	2
	<hr/> 18		<hr/> 17

JUNIOR YEAR

Fall		Spring	
FCS 332 Soc Cult Aspects.....	3	FCS 471, Family Housing & Int	3
FCS 350 Lifespan Human Dev	3	FCS 454, Admin & Supervision	3
FCS 360, Contemp Issues Human	3	FCS 457, Adv Child Dev	3
FCS 450, Curriculum Plan CD	3	FCS 459, Family Interaction	3
FIN 311 Personal Finance	3	General Electives	5
General Electives.....	2		
	<hr/> 17		<hr/> 17

SENIOR YEAR

Fall		Spring	
FCS 453, Parent-Child Rel.....	3	FCS 460, Dir. Field Exp CD	6
FCS 371, Mgt. Family Resources.....	3	MGT 301, Principles of Mgt	3
FCS 456, Adv. Child Dev I.....	3	General Electives	3
General Electives.....	6		
	<hr/> 15		<hr/> 12

TOTAL HOURS: 128

*See General Studies Curriculum

**BACHELOR OF SCIENCE
MAJOR IN FAMILY AND CONSUMER SCIENCES**

Concentration: Human Sciences

The concentration in Human Sciences offers the educational background needed for positions in a variety of human and community service positions including cooperative extension service, business, social services, and community agencies. The concentration provides an overall discipline-based knowledge in all areas of Family and Consumer Sciences in a traditional and an online format.

A minor in Human Sciences may be obtained by completing 20 hours in Family and Consumer Sciences courses including these required courses: FCS 355, FCS 339, 459, and FCS 464. For the remaining 9 hours students may choose from FCS 122, FCS 131, FCS 215, FCS 325, FCS 326, FCS 332, FCS 338, FCS 352/353, FCS 360, FCS 371, FCS 471. Pre-requisites will apply.

Human Sciences – Traditional Classroom

FRESHMAN YEAR

Fall		Spring	
EH Comp 101.....	3	EH Comp 102	3
HY*	3	EH 141, Oral Communication	3
MS 112*, Precalculus Algebra	3	HY*	3
FCS 122, Fund of Food Prep	3	PSY 201, Principles of Psychology	3
FCS 131, Clothing Construction	3	SY 221, Introduction to Sociology	3
STU 101.....	0		
	15		15

SOPHOMORE YEAR

Fall		Spring	
Literature*	3	Literature*	3
Natural Science *	4	Natural Science *	4
PE 109, Concepts Wellness	3	EC 221, Prin of Microeconomics	3
FCS 355 Family Life Ed	3	FCS 215, Intro to Nutrition	3
FCS 371, Resource Mgt.....	3	FCS 200, Seminar in FCS.....	2
	16		15

JUNIOR YEAR

Fall		Spring	
FCS 335, Visual Merchandising	3	Fine Arts Elective*	3
FCS 352, Child Growth & Dev	2	FCS 327, Nutrition Life cycle	3
FCS 353, Child Growth Lab	1	FCS 332, Soc Cultural Aspects	3
MGT 301, Principles Mgt	3	FCS 350, Lifespan Dev	3
FCS 331, Fashion Fund	3	General Electives	3
MKT 301, Principles of Marketing	3		
	15		15

SENIOR YEAR

Fall		Spring	
FCS 339, Prof Comm in FCS	2	MGT 330, Entrepreneurship	3
FCS 471, Family Housing & Interiors	3	FCS 458 Research/Stats Methods.....	3
FCS 459 Family Interaction.....	3	FCS 383 Community Nutrition	3
FCS 326 Food Safety and Sanitation.....	3	SPE 300, Survey of the Except Child.....	3
FCS 464 Human Science Practicum	3	General Electives	3
	14		15

TOTAL HOURS: 120

*See General Studies Curriculum

Human Sciences – Online Classroom

FRESHMAN YEAR

Fall	Spring
English Comp 1013	English Comp 102.....3
PSY 201 Psychology3	SY 221 Sociology3
History3	History3
HPE 109 Wellness3	FCS 215 Introductory Nut3
FCS 122 Fund. Food Prep3	FCS 131 Clothing Const3
STU0	
<hr/> 15	<hr/> 15

SOPHOMORE YEAR

Fall	Spring
Literature.....3	Literature3
Natural Sci.....4	Natural Sci4
EH 141 Oral Comm.....3	Fine Arts Elective.....3
FCS 200 Seminar.....2	FCS 339...Prof. Comm2
MS 110/112 Pre-Cal.....3	FCS 355 Family Life Ed3
<hr/> 15	<hr/> 15

JUNIOR YEAR

Fall	Spring
FCS 325 Quantity Foods.....3	SPE 300 Survey of Exp. Child3
FCS 332 Soc/Cul. Apparel.....3	FCS 351 Child Growth/Dev.....3
FCS 343 Virtual MDSE3	FCS 371 Resource MGT3
FCS 350 LifeSpan3	FCS 327 Nutrition Life Cycle3
EC 221 Principles Microec3	FCS 333 Family Clothing3
MKT 301 Principels MKT3	MGT 301 Principles of MGT3
<hr/> 18	<hr/> 18

SENIOR YEAR

Fall	Spring
FCS 454 Human Sciences Practicum3	FCS 471 Family Housing/Interiors.....3
FCS 458 Research in FCS.....3	FCS 459 Family Interaction3
Elective3	Elective3
MGT 305 Org. Behavior3	FCS 338 Communication Nutrition3
<hr/> 12	<hr/> 12

Total Program Hours: 120

**BACHELOR OF SCIENCE
MAJOR IN FAMILY AND CONSUMER SCIENCES**

Concentration: Merchandising

The concentration in Merchandising offers the educational background needed for positions as buyers, managers, and consultants for retail stores and related businesses in the area of Merchandising. A minor in Fashion Merchandising may be obtained by completing a minimum of 18 hours including: FCS 232, 331, 332, 335 and 6 hours from the following courses: FCS 131, 431, 432, 434 or 435.

FRESHMAN YEAR

Fall		Spring	
EH Comp 101	3	EH Comp 102	3
Natural Science*	4	EH 141, Oral Communication	3
MS 112*, Precalculus Algebra	3	HY*	3
HY*	3	Natural Science*	4
FCS 131, Clothing Construction	3	Fine Arts	3
STU 101	0		
	16		16

SOPHOMORE YEAR

Fall		Spring	
Literature*	3	Literature*	3
FCS 215, Intro Nutrition	3	EC 222, Economics	3
FCS 232, Textiles	3	CS 201*, Intro to Info Tech	3
EC 221, Economics	3	ART 233, Design	3
PSY 201, Psychology	3	FCS 352, Child Growth & Dev	2
General Electives	3	FCS 353, Child Growth Lab.....	1
		or FCS 350 Lifespan Hum. Devel.	
		FCS 200, Seminar in FCS.....	2
	18		17

JUNIOR YEAR

Fall		Spring	
MKT 301, Principles of Mkt.	3	FCS 332, Soc. Cult. Aspects	3
MGT 301, Principles of Mgt	3	FCS 371, Mgt. of Family Resources	3
FCS 331, Fash Fund & Merch	3	FCS 335, Visual Merchandising	3
FCS 355, Family Life Ed	3	MKT 378, Cons. Behavior	3
General Electives.	3	MKT 394, Retailing	3
		General Electives	3
	15		18

SENIOR YEAR

Fall		Spring	
FCS 471, Family Housing & Interiors	3	FCS 430, Sr. Experiences in Merch	3
FCS 458, Research/Stat Methods FCS	3	FCS 431, Textiles App Global Econ	3
MKT 388, Advertising	3	FCS 432, History of Fashion	3
FCS 435, Merch Planning Analysis	3	FCS 434, Apparel Design	3
MKT 361, Sales/Sales Force Mgt	3	General Electives	1
	15		13

TOTAL HOURS: 128

*See General Studies curriculum

**BACHELOR OF SCIENCE
MAJOR IN FAMILY AND CONSUMER SCIENCES**

Concentration: Dietetics

The Didactic Program in Dietetics at JSU is accredited by the Accreditation Council for Education Nutrition and Dietetics, 216 W. Jackson Blvd., Chicago, IL 60606-6995, (312) 899-5400. Following graduation, each student must complete a supervised practice program accredited by the Commission on Accreditation for Dietetics Education of the American Dietetic Association to qualify for the national examination to become a registered dietitian.

Students must be assessed into the Didactic Dietetics program the last semester of the sophomore year. For assessment into upper division Didactic Dietetics' program, students must successfully complete a career assessment exam and all courses listed for the freshman and sophomore years with a minimum grade point average of 3.0 on a 4.0 scale and must maintain this average throughout the program. Students must also earn a minimum grade of "B" on all science based courses. The assessment process for the Didactic Dietetics program is outlined on the FCS Website. Additional information may be obtained online or from program directors.

A minor in Nutrition and Foods may be obtained by completing 18 hours including FCS 122, 322 and 338 and 9 hours from the following courses: FCS 326, 327, 337, 420, 421, 427, 429, or 448.

FRESHMAN YEAR

Fall		Spring	
EH Comp 101.....	3	EH Comp 102	3
MS 112 PreCalculus Algebra.....	3	EH 141 Oral Communication.....	3
FCS 122 Fund of Food Prep	3	CY 116 Concepts of Chem II	4
BY 101,103 Intro to Biology	4	BY 263 Human Anatomy & Phys I.....	4
CY 115 Concepts of Chem I.....	4	PSY 201 or Sy 221	3
STU 101 First Year Experience	0		
	<hr/>		<hr/>
	17		17

SOPHOMORE YEAR

Fall		Spring	
FCS 322 Normal Nutrition.....	3	FCS 328 Career Paths in Nutr & Diet.....	1
BY 264 Human Anatomy & Phys II	4	MS 204 Basic Statistics.....	3
Literature	3	Literature	3
HY	3	HY	3
FCS 200 Seminar in FCS	2	FCS 355 Family Life Ed	3
FA Elective	3	EC 222 Prin of Macroecon	3
	<hr/>		<hr/>
	18		16

JUNIOR YEAR

Fall		Spring	
FCS 323 Experimental Foods.....	3	FCS 337 Meth Nutrition Assessment.....	3
FCS 326 Food Safety & Sanitation	3	FCS 327 Nutrition in the Life Cycle	3
FCS 332 Soc. Cult. Aspects.....	3	FCS 338 Community Nutrition.....	3
MGT 301 Principles of Mgt.....	3	FCS 352 Child Growth & Dev	2
EH 322 Technical Writing	3	and FCS 353 Child Growth Lab	1
	<hr/>	OR FCS 350 Lifespan Human Dev	3
		HPE 400 Exercise Phys.....	3
	15		<hr/>
			18

SENIOR YEAR

Fall		Spring	
FCS 325 Quantity Foods.....	3	FCS 422 Foodservice Mgt	3
FCS 371 Mgt of Fam Resources.....	3	FCS 421 Med Nutr Therapy II.....	3
FCS 420 Med Nutr Therapy I	3	FCS 448 Alternative Medicine	3
FCS 429 Adv Nutr Metab.....	3	FCS 471 Family Housing & Interiors	3
FCS 339 Prof Comm in FCS	2	FCS 458 Research/Stats Methods.....	3
Gen Elect	1		
	<hr/>		<hr/>
	15		15

TOTAL HOURS: 128

*See General Studies curriculum

BACHELOR OF SCIENCE
MAJOR IN FAMILY AND CONSUMER SCIENCES
Concentration: Community Nutrition

The concentration in Community Nutrition offers the academic background needed for positions in a variety of community agencies that provide nutrition services for individuals, families, and groups. This concentration does not qualify for entry into the Didactic Program in Dietetics.

FRESHMAN YEAR

Fall	Spring
EH Comp 101.....3	EH Comp 1023
MS 112 PreCalculus Algebra.....3	EH 141 Oral Communication.....3
FCS 122 Fund of Food Prep.....3	FCS 200 Seminar in FCS.....2
BY 101,103 Intro to Biology4	PSY 201 Intro to Psychology3
CY 115 Concepts of Chem I.....4	BY 263 Human Anatomy4
STU 101 First Year Experience0	
17	15

SOPHOMORE YEAR

Fall	Spring
FCS 322 Normal Nutrition.....3	FCS 328 Career Paths in Nutr & Diet.....1
SY 221 Intro to Sociology3	MS 204 Basic Statistics.....3
Literature.....3	Literature3
HY3	HY3
FA Elective3	FCS 355 Family Life Ed.....3
	EC 222 Prin of Macroecon3
15	16

JUNIOR YEAR

Fall	Spring
ED 300.....2	MKT 301 Principles Of Marketing3
FCS 326 Food Safety & Sanitation3	FCS 327 Nutrition in the Life Cycle3
FCS 332 Soc. Cult. Aspects.....3	FCS 338 Community Nutrition.....3
MGT 301 Principles of Mgt.....3	FCS 350 Lifespan Human Dev.....3
EH 322 Technical Writing.....3	HPE 315 Comm & Consumer Health3
14	15

SENIOR YEAR

Fall	Spring
FCS 325 Quantity Foods.....3	SY 364 Medicine and Society3
FCS 371 Mgt of Fam Resources.....3	FCS 428 International Foods3
FCS 339 Prof Comm in FCS.....2	FCS 448 Alternative Medicine3
FCS 471 Family Housing & Interiors3	FCS 458 Research/Stats Methods.....3
HPE 232 Sports Safety & First Aid2	HP3 318 Health for Spec. Populations.....3
13	15

TOTAL HOURS: 120

BACHELOR OF SCIENCE
MAJOR IN FAMILY AND CONSUMER SCIENCES
Concentration: Hospitality and Culinary Management

The concentration in Hospitality and Culinary Management offers academic back-ground and field experience in the hospitality industry and is planned for individuals interested in management positions in culinary arts. A minor may be earned in Hospitality and Culinary Management by completing 18 hours including FCS 122, 323, 325, 422, and six hours from the following courses: FCS 132, 326, 428, 438 or 441.

FRESHMAN YEAR

Fall		Spring	
EH Comp 101	3	EH Comp 102	3
HY*	3	EH 141, Speech	3
BY 101, 103	4	BY 102, 104	4
FCS 122, Fund of Food Prep	3	FCS 132, Culinary Science	3
SY 221 Intro to Soc	3	Fine Arts Elective*	3
STU 101	0		
	16		16

SOPHOMORE YEAR

Fall		Spring	
Literature*	3	Literature*	3
MS 112, Precalculus Algebra	3	MS 204 Basic Statistics	3
EC 221, Economics	3	EC 222, Economics	3
FCS 223 Science of Service Quality	2	FCS 200, Seminar in FCS	2
FCS 326 Food Safety	3	FCS 215 Intro to Nutrition	3
	14		14

JUNIOR YEAR

Fall		Spring	
MGT 301, Principles of Management	3	MGT 385 Human Resource Management	3
ACC 200, Principles Financial Acc	3	FCS 371, Resource Mgt	3
FCS 323, Experimental Foods	3	ACC 210, Principles Managerial Acc	3
FCS 325 Quality Food Production	3	FCS 352 Child Growth & Dev	2
FIN 301 Business Finance	3	and FCS 353 Child Growth Lab	1
.....		or FCS 350 Lifespan Hum Dev	3
		FCS 332 Social Cultural Aspects of Apparel	3
	15		15

SENIOR YEAR

Fall		Spring	
FCS 335, Visual Merchandising	3	FCS 471, Family Housing & Interiors	3
FCS 355, Family Life	3	FCS 428, International Foods	3
FCS 422, Foodservice Mgt	3	FCS 441, Practicum in Hosp & Tour	3
MKT 301, Principles of Marketing	3	FCS 438 Principles of Culinary Mgt	3
FCS 441, Practicum in Hosp and Tour	3	CBA 390 Operations Mgt	3
	15		15

TOTAL HOURS: 120

DESCRIPTION OF COURSES

- 122. Fundamentals of Food Preparation and Meal Management (3).** Lecture and laboratory experiences. Introduction to the study of food, including selection, principles of preparation, evaluation of food products, survey of the market place and management of resources in the preparation and serving of food.
- 131. Clothing Construction (3).** Personal appearance, selection, and care of clothing and textiles. Fundamentals of clothing construction, pattern selection, and fit. Application of fundamentals through garment construction.

132. **Culinary Science (3).** *Prerequisite: FCS 122.* An introduction to the study of commercial food production including fundamental cooking techniques, knife and hand-tool skills, flavor affinities, and visually pleasing culinary presentations.
200. **Seminar in Family and Consumer Sciences (2).** The philosophical base of family and consumer sciences and issues affecting the profession. Emphasis on managing the challenges of living and working in a diverse global society. Preparation of students for success including résumé writing, professional presentations, and the development of communication skills.
215. **Introductory Nutrition (3).** Introduction to the principles of nutrition including nutrient requirements for individuals of all ages.
223. **The Science of Service Quality (2).** Introduction to the service quality concept, particularly as it relates to the hospitality industry. Emphasis on theories and principles of service quality.
232. **Textiles (3).** Textile fabrics, their composition, structure and use along with weaves, finishes and care. Natural and manmade fibers used in clothing.
301. **Career Paths in Dietetics (1).** *Prerequisite: Junior Status.* A survey of the career paths in dietetics and the process for entering the field.
322. **Normal Nutrition (3).** *Prerequisite: CY 115 and BY 263.* Application of fundamentals of human nutrition including various nutrients and requirements for different individuals and groups.
323. **Experimental Foods (3).** *Prerequisite: FCS 122.* Lecture and laboratory experiences. The advanced study of food including the physical and chemical properties of food and factors affecting the quality of standard food products.
325. **Quantity Food Production (3).** *Prerequisite: FCS 122.* Lectures and laboratory experiences. Introduction to institutional preparation and service of food, equipment operation and maintenance, menu planning and recipe standardization.
326. **Food Safety and Sanitation (3).** *Prerequisites: 4 hours of Natural Sciences and FCS 122.* An introduction to food borne illnesses, safe food preparation practices, micro-biological considerations for specific foodservice systems, and regulatory laws for foodservice establishments.
327. **Nutrition in the Life Cycle (3).** *Prerequisite: FCS 322.* How age, growth and normal development influence the nutritional requirements for individuals at each stage of the life cycle.
328. **Career Paths in Nutrition and Dietetics (1).** *Prerequisites: FCS 122 and FCS 322.* A survey of the careers in nutrition and dietetics. Students will complete the Nutrition Career Assessment Exam for assessment into the Dietetics Program.
330. **Braids, Trims, and Stitchery (3).** The use of individuality in creating unusual trims and accessories for dress.
331. **Fashion Fundamentals and Merchandising (3).** *Prerequisite: sophomore status.* Organization and structure of the fashion industry with emphasis on retailing, sources of information, and fashion trends.
332. **Social Cultural Aspects of Apparel (3).** Overview of social, psychological, and cultural aspects of apparel
333. **Family Clothing (3).** *Prerequisite: FCS 131.* Planning, selection, purchasing and care of family clothing. Emphasis on construction of children's clothing.
334. **Flat Pattern Design (3).** *Prerequisite: FCS 131.* Application of fundamental principles and procedures in the development and use of the master pattern. Applying flat pattern principles to designing patterns, fitting and altering commercial patterns.
335. **Visual Merchandising (3).** *Prerequisite: sophomore status.* Design principles applied to various display needs. Investigation and practical experience in planning, executing, and evaluation of 2-D and 3-D displays for commercial, educational, and other needs.
337. **Methods of Nutritional Assessment (3).** *Prerequisite: FCS 322.* An introduction to the profession and practice of dietetics, emphasizing assessment techniques, feeding modalities, and counseling methods.
338. **Community Nutrition (3).** *Prerequisite: FCS 215 or 322.* Application of community nutrition strategies to health care problems and exploration of approaches useful in the design and evaluation of these programs.
339. **Professional Communications in FCS (2).** The fundamentals of communication skills essential for professions related to the field of Family and Consumer Sciences. Emphasis on materials and methods necessary for satisfactory communication.
343. **Virtual Merchandising (3).** Design principles applied to various promotional and presentation tools such as, displays, brochures, and bulletin boards. This course will focus on the investigation and practical experience in planning, executing, and evaluation of displays for commercial, educational, and other needs.
350. **Lifespan Human Development (3).** Overview of physical, intellectual, social, and emotional development from conception to death. Practical application of information to life stages and outside observations will be included.
351. **The Developing Child (3).** Development and guidance of young children from infancy through the school years. Not available to students in the traditional Child Development concentration. Includes 12-15 hours of field experience.

352. **Child Growth and Development (2).** Development and guidance of young children from infancy through middle childhood.
353. **Child Growth and Development Laboratory (1).** Taken concurrently with FCS 352 lecture; two hours per week. Methods of guidance of young children.
355. **Family Life Education (3).** A study of family relations and the skills needed to function within the family setting. Emphasis on interpersonal communication, conflict resolution, and parenting.
360. **Contemporary Issues in Human Development (3).** Current topics in the areas of child and/or family development.
371. **Management of Family Resources (3).** *Prerequisite: sophomore status.* Focuses on the practical application of management principles for use of resources to maximize individual and family quality of life.
420. **Medical Nutrition Therapy I (3).** *Prerequisites: FCS 337 and FCS 322.* The study of relationships between diseases and nutrition. Application of assessment techniques and alternative feeding modalities in medical/nutritional case studies.
421. **Medical Nutrition Therapy II (3).** *Prerequisite: FCS 420.* A continuation of Medical Nutrition Therapy I. The study of relationships between diseases and nutrition. Application of assessment techniques and alternative feeding modalities in medical/nutritional case studies.
422. **Foodservice Management (3).** *Prerequisites: FCS 122 and MGT 301.* Management techniques and functions in foodservice with emphasis on personnel management, materials management and systems approach to foodservice management.
425. **Practicum in Foodservice Management (3).** *Prerequisite: Approval of instructor.* May be duplicated for credit for a total of six (6) semester hours. Practical experiences in foodservice management obtained in approved institutions. Must be planned in advance.
427. **Special Problems in Family and Consumer Sciences (3).** *Prerequisites: Senior Status and approval of instructor.* May be duplicated for credit for a total of six (6) semester hours. Individual work in selected area.
428. **International Foods (3).** Lecture and laboratory experiences. Study of food practices, preparation and service of dishes typical of countries around the world.
429. **Advanced Nutrition Metabolism (3).** *Prerequisites: FCS 322, BY 263 and PE 400.* Normal nutrition metabolism and an overview of aberrations in normal metabolism as affected by diseases.
430. **Senior Experiences in Fashion Merchandising (3).** *Prerequisites: Senior Status and approval of instructor.* Field experiences in merchandising. May be duplicated for credit for a total of six (6) semester hours.
431. **Textiles and Apparel in the Global Economy (3).** *Prerequisites: FCS 331 and Junior Status.* Role of fiber, textile and apparel industries in the international economy. Current issues related to fashion merchandising in the global economy.
432. **History of Fashion (3).** *Prerequisite: junior status.* The development of fashion throughout history, with an investigation of the influence of sociological, psychological, economic and cultural factors.
434. **Apparel Design (3).** *Prerequisites: FCS 131, 232 and 331 and junior status.* Overview of the fashion design and manufacturing process. Examination of fashion illustration, methods of apparel design, creation of an apparel line and practical experiences in apparel design.
435. **Merchandise Planning and Analysis (3).** *Prerequisites: MS 110 or MS 112, FCS 331 and Junior Status.* Application of principles of merchandise management and retail buying to the merchandising of textiles and apparel and accessories.
438. **Principles of Culinary Management (3).** *Prerequisites: FCS 122, 132 and MGT 301.* The study of the evolution of the hospitality industry and how it is currently stratified. Organizational systems, management and career opportunities/salaries will be examined. Hospitality service management is viewed from both a consumer and business perspective.
441. **Practicum in Hospitality and Tourism (3).** *Prerequisite: Approval of instructor.* Practical culinary and tourism experiences in the hospitality industry. May be duplicated for a total of six (6) credit hours.
448. **Alternative Medicine and Dietary Supplements (3).** *Prerequisites: FCS 322 and Junior Status.* Advanced study of the safety and efficacy of herbal and dietary supplements; mechanisms of action including potential drug/herbal/nutrient interactions; evaluation and regulation of health claims.
450. **Curriculum Planning in Child Development (3).** *Prerequisites: Junior Status and FCS 351 or FCS 352/ 353.* Planning a developmentally appropriate curriculum for a child care program. Includes 12-15 hours of field experience. Background check required.
452. **Overview of Advanced Child Development (Infancy through 5 years) (3).** *Prerequisites: Junior Status and FCS 351 or 352/353.* Study of the biological and environmental influences on development from infancy through age 5. Examine theories, research, the family context, school context, and the impact of diverse family experiences. Not available to students in the traditional or on-line Child Development concentrations. . Includes 12-15 hours of field experience. Background check required.

453. **Parent-Child Relations (3).** *Prerequisites: Junior Status and FCS 351 or FCS 352/353.* Study of the dynamics and reciprocal nature of parent-child relationships, including internal and environmental forces that impact interactions between parents and children.
454. **Administration & Supervision in Child Care Programs (3).** *Prerequisites: Junior Status, FCS 351 or FCS 352/353, FCS 450 and approval of instructor.* The planning, implementing, and evaluating of a child care program. . Includes 12-15 hours of field experience. Background check required.
456. **Advanced Child Development I (Infant and Toddler Development) (3).** *Prerequisites: Junior Status and FCS 351 or 352/353.* Study of the biological and environmental influences on development from infancy through toddlerhood. Examine theories, research and the family context. . Includes 12-15 hours of field experience. Background check required.
457. **Advanced Child Development II (Ages 3 through 5).** *Prerequisites: Junior Status and FCS 351 or FCS 352/ 353.* Study of the biological and environmental influences on development from toddlerhood through age five. Examine theories, research, the family context, school context, and the impact of diverse family experiences. Background check required.
458. **Research and Statistical Methods in FCS (3).** *Prerequisite: Junior Status.* Methods and basic skills for conducting, analyzing, and interpreting research.
459. **Family Interaction (3).** *Prerequisites: Junior Status and FCS 351 or 352/353.* Study of various theories of family interaction, with an emphasis on understanding the family as a system.
460. **Directed Field Experiences (6).** *Prerequisites: Completion of general studies, professional and concentration courses, and approval of academic advisor.* Supervised experiences in a community child care setting with observation and participation in approved programs for children. Background check required.
463. **Directed Field Experiences for Child Development Minors (3).** *Prerequisites: Completion of general studies, professional and concentration courses, and approval of academic advisor.* Supervised experiences in a community child care setting with observation and participation in approved programs for children. Not available to students in the traditional or online Child Development concentrations. Background check required.
464. **Practicum in Human Sciences (3).** *Prerequisite: This practicum must be taken the last semester of the student's senior year and after completion of All content coursework.* Field observation and experiences in agencies or organizations that provide services in a Human Sciences field. Practicum site must be approved by the advisor.
471. **Family Housing and Interiors (3).** *Prerequisite: Junior Status.* An overview of present-day family housing needs including location, space needs, house construction and selection, alternative housing, and home furnishings.
472. **Creative Expressions in Home Furnishings (3).** Selection and use of household fabrics and materials including the design and construction of home furnishings and accessories.

CAREER/TECHNICAL EDUCATION (CTE)

350. **Professional and Technical Competency for Career and Technical Education (3).** Technical skills needed to teach, organize, and maintain career and technical programs in middle and secondary schools. Emphasis on professional skills needed to secure and maintain employment In CTE.
362. **Principles of Career and Technical Education (3).** History, philosophy, trends, and issues of career and technical education programs in middle and secondary schools. Includes needs assessment, curriculum planning, and implementation of programs.
444. **Assessment of Learning for Career and Technical Education. (3).** This course is an introduction to developmentally appropriate evaluation of teaching and learning at the secondary level for Career and Technical programs. *Requires Teacher Education Program eligibility.*
460. **Practicum in CTE (3).** Directed experiences including observation and participation in career technical education programs and classrooms. Provides an opportunity to observe and apply theories and concepts. Seminars will be held in conjunction with this course. *Must be taken concurrently with CTE 461. Requires Teacher Education Program eligibility.*
461. **Effective Teaching of CTE (3).** Planning and implementation of instructional methods and materials in secondary career technical education, nutrition education and community education programs. Field experiences. *Must be taken concurrently with CTE 460. Requires Teacher Education Program eligibility.*
475. **Functions of the Coordinator (3).** Technical skills needed to teach, organize, and maintain Cooperative Education and work-based learning programs in secondary schools. Job-shadowing of a COOP teacher required.

DEPARTMENT OF KINESIOLOGY

204 MATHEWS COLISEUM

Interim Department Head: Mabrey
Professors: Chandler, Hammett, Overton, Thornburg
Associate Professor: Hill
Assistant Professor: Anderson
Instructors: Crosson, Galloway, Gilbert, Mabrey, Rains

The Department of Kinesiology offers 3 degrees: a Bachelor of Science in Education degree in Physical Education, a Bachelor of Science degree in Exercise Science and Wellness, and a Bachelor of Science degree in Sport Management and Recreation Studies.

BACHELOR OF SCIENCE IN EDUCATION

Teaching Field: Physical Education (P-12)

Students who meet the requirements for education degree programs will be eligible to apply for a Baccalaureate level Professional Certificate and will be qualified to teach Physical Education in grades P through 12. Of the 120 hours required to attain the Bachelor of Science in Education degree, the **Physical Education** major must successfully complete a minimum of 62 hours of departmental courses including HPE 109, 145, 232, 303, 355, 356, 357, 362, 381, 394, 400, 404, 405, 409, 410, 411, 415, 460, 462, two hours of individual and dual sports activity, one hour of fitness activity, one hour of dance activity, one hour of aquatics activity, and SMR 271. HPE 303, 355, 356, and 357 must be taken prior to teacher education eligibility. Professional studies courses are also required, which include: ED 300, SPE 300, and internship consisting of HPE 482, ED 495 and ED 496. ED 300, and SPE 300 must be taken prior to teacher education eligibility. Physical Education (teacher education) degree requirements may be altered to meet changes in federal and Alabama State Department of Education regulations.

FRESHMAN YEAR

Fall	Spring
EH 101 Comp I3	HPE 109 Concepts of Wellness3
History/Literature * 3	BY 101 and 103L.....4
Lit/Fine Arts/HY/Soc Scien3	History/Literature*3
Soc & Beh Science.....3	MS 110 Finite Mathematics3
HPE Approved Activity1	EH 102 Comp II.....3
HPE Approved Activity1	
HPE 232 Sports Safety and 1 st Aid.....2	
STU 101 First Year 0	
<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Fall	Spring
History/Literature*3	HPE Aquatics Activity1
Fine Arts/Soc & Beh Science.....3	HPE Approved Activity1
EH 141 Oral Communications3	HPE Aquatics Activity1
BY 263 Anatomy & Phys.....4	HPE 362 Kinesiology3
HPE 404 Tests & Measurements PE3	HPE 405 Scientific Prin Conditioning3
<hr/> 16	HPE 460 Motor Dev.....3
	<hr/> 15

JUNIOR YEAR

Fall	Spring
ED 300 Intro to Education.....2	HPE 355 Methods of Teaching Elem. PE.....3
HPE 303 Foundations of HPE3	HPE 356 Methods of Teaching Sec. PE3
SPE 300 Survey of Ex Child3	HPE 357 21 st Century Technology in HPE3
HPE 400 Exercise Physiology3	HPE 415 Biomechanics.....3
HPE 145 Team Sports2	HPE 381 Adapted PE3
SMR 271 Rec Games2	
<hr/> 15	<hr/> 15

SENIOR YEAR

Fall	Spring
HPE 394, Coaching Skills Practicum.....3	HPE 482 Seminar in PE3
HPE 409 Meth Teach PE P-53	ED 495 Internship in Education.....6
HPE 410 Meth Teach PE 6-12 3	ED 496 Reflective Practices in Ed.3
HPE 411 Practicum PE P-12 3	
HPE 462 Best Practices in PE 3	
15	12

TOTAL HOURS: 120

*See General Studies curriculum

Note: All professional education courses and selected teaching field courses must be completed at JSU and may not be transferred from another institution. Please check with your academic department for a complete list of these courses.

Two non-teaching Bachelor of Science degrees are offered with a major **Exercise Science & Wellness** or **Sport Management and Recreation Studies**. Students majoring in **Exercise Science & Wellness** must choose a concentration in either Clinical or Human Performance. Students majoring in **Sport Management and Recreation Studies** must choose a concentration in either Sport Management or Recreational Leadership.

BACHELOR OF SCIENCE MAJOR IN EXERCISE SCIENCE & WELLNESS Concentration: Clinical

Students majoring in **Exercise Science & Wellness – Clinical concentration** may attain this degree by completing the 41 hour general studies curriculum; the 45 hour core curriculum (HPE 109, 165, 209, 232, 272, 350, 362, 375, 400, 405, 415, 440, 441, 450 and 465); 16 hours of required pre-professional courses (BY 263, BY 264, CY 105/107, and CY 106/108); 16 hours to complete a Biology minor (BY 322, BY 323, BY 373, and 4 additional hours of advisor approved Biology courses); 14 hours of additional requirements (PHS 201/203, PHS 202/204, MS 204 or SY 304, and NU 130); and obtaining an advisor approved National Certification from the American College of Sports Medicine or National Strength and Conditioning Association. Students will be classified as “ESW_CLN_Undecided” majors prior to assessment into the ESW program.

At the beginning of the sophomore year, students may seek assessment into the ESW upper level courses by filing an application for the ESW- Clinical track in the Kinesiology Office. The application is available in the departmental office.

Program applications are reviewed and candidates are assessed once per year.

All the following criteria must be met:

1. The candidate must have earned a minimum of 48 semester hours of college credit.
2. The candidate must have earned an overall Grade Point Average of 3.25 based upon a 4.0 scale to include all pre-professional courses with a C or better. After assessment to the ESW upper level courses (Clinical Concentration), the student is required to maintain a minimum 3.25 grade-point average. In accordance with the College of Education and Professional Studies Grades Dismissal Policy, a student may repeat a professional course only once and may not accumulate more than three (3) grades of “D” or “F” in “professional studies” courses. . In accordance with the College of Education and Professional Studies GPA Dismissal Policy, failure to maintain the appropriate GPA will result in dismissal from the ESW Program. Reinstatement to the ESW Program is at the discretion of the ESW committee.
3. The candidate must have submitted three (3) written recommendations from professors in the general studies area.
4. The candidate must satisfactorily complete an interview to provide information of the student’s personality, interests, and aptitudes consistent with the requirements for a successful ESW career.

**BACHELOR OF SCIENCE
MAJOR IN EXERCISE SCIENCE & WELLNESS**

Concentration: Clinical

FRESHMAN YEAR

Fall	Spring
EH 101, Comp I3	EH 102, Comp II.....3
History/Social/Behavioral Science* 3	History/Social/Behavioral Science3
BY 101 and 103L4	HPE 165, Intro ESW1
HPE 109, Concepts of Wellness3	HPE 209, Essentials of Human Performance3
CY 105/1074	BY 102 and 104, General Biology &Lab3
STU 101.....0	CY 106 and 108, General Chemistry & Lab.....3
17	18

SOPHOMORE YEAR

Fall	Spring
Lit/Humanities/Fine Arts*3	Lit/Humanities/Fine Arts*3
EH 141, Oral Communications 3	History/Social/Behavioral Science*3
MS 112*, Pre-Calculus Algebra3	Basic Statistics Elective**3
PSY 201, Principles of Psychology.....3	PSY 222, Human Development3
HPE 272, Basic Athletic Training.....3	PHY 201 & 203, College Physics and Lab4
HPE 232, Sport Safety & First Aid2	BY 263, Anatomy & Physiology I4
17	20

JUNIOR YEAR

Fall	Spring
BY 322, Genetics4	HPE 350, Intro to Personal Training3
HPE 362, Kinesiology3	BY 323, Microbiology4
HPE 375, Therapeutic Exercise/Modalities3	HPE 400, Exercise Physiology.....3
BY 264, Anatomy &Physiology II4	HPE 415, Biomechanics3
PHY 202 & 204L, College Physics and Lab4	HPE 405, Scientific Prin of Conditioning3
18	16

SENIOR YEAR

Fall	Spring
BY 373, Cell Biology.....4	NU 130, Medical Terminology3
BY Minor Elective4	HPE 441, Design of Wellness Programs.....3
HPE 450, Research in ESW3	HPE 465, Practicum in ESW6
HPE 440, Fitness Testing.....3	
14	12

TOTAL HOURS: 132

*See General Studies curriculum **SY 304, PSY 340, or MS 204

**BACHELOR OF SCIENCE
MAJOR IN EXERCISE SCIENCE AND WELLNESS**

Concentration: Human Performance

Students majoring in **Exercise Science & Wellness – Human Performance concentration** may attain this degree by completing the 41 hour general studies curriculum; the 44 hour core curriculum (HPE 232, 272, 301, 350, 362, 375, 400, 405, 406, 415, 440, 441, 450 and 465); 13 hours of required pre-professional courses (HPE 109, HPE 165, HPE 209, FCS 215 or 322, and MS 204 or SY 304); a minimum of 22 hours from a chosen minor and general electives; and obtaining an advisor approved National Certification from the American College of Sports Medicine or National Strength and Conditioning Association. Students will be classified as “ESW_HP_N_Undecided” majors prior to assessment for upper level ESW courses.

At the beginning of the sophomore year, students may seek assessment into the ESW upper level courses by filing an application for the ESW- Human Performance track in the Kinesiology Office. The application is available in the departmental office.

Program applications are reviewed and candidates are assessed once per year. All the following criteria must be met:

1. The candidate must have earned a minimum of 48 semester hours of college credit.
2. The candidate must have earned an overall Grade Point Average of 2.50 based upon a 4.0 scale to include all pre-professional courses with a C or better. After assessment to the upper level ESW courses (Human Performance Concentration), the student is required to maintain a minimum 2.50 grade-point average. In accordance with the College of Education and Professional Studies Grades Dismissal Policy, a student may repeat a professional course only once and may not accumulate more than three (3) grades of "D" or "F" in "professional studies" courses. In accordance with the College of Education and Professional Studies GPA Dismissal Policy, Failure to maintain the appropriate GPA will result in dismissal from the ESW Program. Reinstatement to the ESW Program is at the discretion of the ESW committee.
3. The candidate must have submitted three (3) written recommendations from professors in the general studies area.
4. The candidate must satisfactorily complete an interview to provide information of the student's personality, interests, and aptitudes consistent with the requirements for a successful ESW career.

BACHELOR OF SCIENCE MAJOR: EXERCISE SCIENCE AND WELLNESS

Concentration: Human Performance

FRESHMAN YEAR

Fall	Spring
EH 101, Comp I3	EH 102, Comp II.....3
History / Social / Behavioral Science* 3	EH 141, Oral Communications3
BY 101 and 1034	HPE 165, Intro ESW.....1
HPE 109, Concepts of Wellness3	HPE 209, Essentials of Human Performance3
Minor/ Approved Electives1	Lit / Humanities / Fine Arts*3
STU 101.....0	History / Social / Behavioral Science3
<hr/> 14	<hr/> 16

SOPHOMORE YEAR

Fall	Spring
Lit / Humanities / Fine Arts*3	Lit / Humanities / Fine Arts*3
History / Social / Behavioral Science* 3	History / Social / Behavioral Science*3
MS 112*, Pre-Calculus Algebra3	Basic Statistics Elective**3
Minor/ Approved Electives3	HPE 232, Sport Safety & First Aid.....2
BY 263, Anatomy & Physiology4	HPE 272, Basic Athletic Training.....3
	FCS 215 or 3223
<hr/> 16	<hr/> 17

JUNIOR YEAR

Fall	Spring
HPE 301, Industry Management3	HPE 350, Intro to Personal Training3
HPE 362, Kinesiology3	HPE 375, Therapeutic Exercise / Modalities3
HPE 400, Exercise Physiology3	HPE 406, Physical Fitness Techniques3
HPE 405, Scientific Principles of Conditioning3	HPE 415, Biomechanics3
Minor/ Approved Electives3	Minor/ Approved Electives6
<hr/> 15	<hr/> 18

SENIOR YEAR

Fall	Spring
Minor/ Approved Electives6	Minor/ Approved Elect.....3
HPE 440, Fitness Testing3	HPE 441, Design of Wellness Programs.....3
HPE 450, Research in ESW3	HPE 465, Practicum in ESW6
<hr/> 12	<hr/> 12

TOTAL HOURS: 120

*See General Studies curriculum **SY 304, PSY 340, or MS 204

BACHELOR OF SCIENCE

MAJOR: SPORT MANAGEMENT AND RECREATIONAL STUDIES

Concentration: Recreational Leadership

Students that are pursuing a concentration in **Recreational Leadership** may attain this degree by completing 10 hours of Pre-Professional Courses from: HPE 109, HPE 232, SMR 221, and SMR 271; 21 hours of Degree Requirements from: SMR 340, SMR 355, SMR 450, SMR 476, SMR 490, and SMR 492; and 15 hours of Recreation Concentration from: SMR 310, SMR 311, SMR 312, SMR 360, SMR 420; and 12 hours of Recreation Electives from: SMR 275, SMR 301, SMR 302, SMR 321, SMR 322, and HPE 301; and 3 hours of activity courses; and 18-24 hours of minor courses with approval of advisor.

BACHELOR OF SCIENCE

MAJOR: SPORT MANAGEMENT AND RECREATION STUDIES

Concentration: Recreational Leadership

FRESHMAN YEAR

Fall	Spring
EH 101, Written Composition3	EH 102, Written Composition II3
MS 110, Finite Mathematics.....3	Humanities/ Fine Arts3
History/ Social Behavioral Science3	History/ Social/ Behavioral Science3
HPE 109, Concepts of Wellness3	Natural Science4
Humanities/ Fine Arts.....3	EH 141, Oral Communications.....3
STU 101 First Year Experience0	
<hr/> 15	<hr/> 16

SOPHOMORE YEAR

Fall	Spring
Humanities/ Fine Arts.....3	History/ Social/ Behavioral Science3
History/ Social/ Behavioral Science.....3	SMR 271, Recreational Games/ Group Dev2
SMR 221, Found. of Sport Mgmt & Rec.....3	Minor Hours3
Natural Science.....4	Minor Hours3
HPE 232, Sport Safety & First Aid2	Minor Hours3
<hr/> 15	<hr/> 14

JUNIOR YEAR

Fall	Spring
SMR 310, Camping and Outdoor Ed3	SMR 311, Recreation for the Aged3
SMR 355, Finance in Sport Mgmt. & Rec.....3	SMR 312, Org. & Adm. Camp Program3
SMR 420, Youth Dev. Leadership.....3	SMR 360, Challenge Course Programs.....3
Recreation Electives3	SMR 340, Legal & Ethical Sport Mgmt. & Rec.....3
Recreation Electives3	SMR 476, Marketing in Sport Mgmt. & Rec.....3
<hr/> 15	Activity Course2
	<hr/> 17

SENIOR YEAR

Fall	Spring
SMR 450, Sport & Rec. Facility Mgmt.....3	Recreation Electives.....3
SMR 490, Sport Mgmt. & Rec. Admin3	Minor Hours.....3
Recreation Electives.....3	SMR 492, Internship in Sport Mgmt. & Rec..... 6
Minor Hours3	
Minor Hours3	
Activity Course1	
<hr/>	<hr/>
16	12

TOTAL HOURS: 120

Students that are pursuing a concentration in **Sport Management** may attain this degree by completing 9 hours of Pre-Professional Courses from: MS 204 *or* ST 260, SMR 221, and SMR 231; 21 hours of Degree Requirements from: SMR 340, SMR 355, SMR 450, SMR 476, SMR 490, and SMR 492; and 15 hours of Sport Management Concentration from: EC 455, SMR 331, SMR 425, SMR 466, SMR 486; and 15 hours of Required Sport Management Electives from: ACC 200, HPE 301, MKT 301, MKT 361, MKT 374, SMR 321, SMR 322, and SMR 335; and 18-24 hours of minor course and general electives with approval of advisor.

BACHELOR OF SCIENCE MAJOR: SPORT MANAGEMENT AND RECREATION STUDIES Concentration: Sport Management

FRESHMAN YEAR

Fall	Spring
EH 101, Written Composition.....3	EH 102, Written Composition II.....3
MS 112, Precalculus Mathematics3	Humanities/Fine Arts3
History/Social Behavioral Science3	History/Social/ Behavioral Science3
Natural Science.....4	Natural Science4
Humanities/Fine Arts.....3	EH 141, Oral Communications.....3
STU 101 First Year Experience0	
<hr/>	<hr/>
16	16

SOPHOMORE YEAR

Fall	Spring
Humanities/Fine Arts.....3	History/Social/Behavioral Science3
EC 221, Microeconomics3	MS 204, Basic Statistics.....3
SMR 221, Found. of Sport Mgmt & Rec.....3	Minor Hours3-6
SMR 231, History of Sport3	Minor Hours3-6
Minor Hours 3-6	Sport Mgmt.Electives3
<hr/>	<hr/>
15-18	15-18

JUNIOR YEAR

Fall	Spring
SMR 355, Finance in Sport Mgmt. & Rec.....3	EC 455, Sport Economics3
SMR 425, Cont. Issues in Sport3	SMR 331, Topics in International Sport.....3
SMR 466, Public and Media Relations3	SMR 340, Legal & Ethical Sport Mgmt. & Rec.....3
Sport Mgmt.Electives3	SMR 476, Marketing in Sport Mgmt. & Rec.....3
Sport Mgmt.Electives3	Sport Mgmt.Electives3
<hr/>	<hr/>
15	15

SENIOR YEAR

Fall	Spring
SMR 450, Sport & Rec. Facility Mgmt.....3	Sport Mgmt.Electives3
SMR 490, Sport Mgmt. & Rec. Admin3	Minor Hours3-6
SMR 486, Promotion & Event Plan.....3	SMR 492, Internship in Sport Mgmt. & Rec.....6
Minor Hours 3-6	
Minor Hours 3-6	
<hr/> 15-18	<hr/> 12-15

TOTAL HOURS: 120

The Department of Kinesiology offers five (5) minors: **Coaching, Community Health, Exercise Science, Recreational Leadership, and Sport Management.**

A **Minor in Coaching** is available for students majoring in non-teaching degree fields. The requirements include 18 hours of coursework: 8 hours of core courses (HPE 232, 391, and 405) 7 hours of sports pedagogy seminars (HPE 320-331), and a practicum in coaching, HPE 394.

A **Minor in Community Health** is available for students majoring in non-teaching degree fields. A minimum of 18 hours is required which must include HPE 212, 312, 315, 318, 360, and 420.

A **Minor in Exercise Science** is available for students who are pursuing a non-teaching degree. The requirements for a minor in Exercise Science and Wellness are a minimum of 21 hours, to include the following required courses consisting of 12 semester hours; HPE 109, 165, 362, 400, 415. The students must choose 9 hours of electives from the following courses: HPE 272, 405, 406, 440.

A **Minor in Recreational Leadership** is available for students majoring in non-teaching degree fields. A minimum of 21 hours which must include SMR 221, 271, 310, 490; 6 hours selected from SMR 275, 301, 302, 312, 420 and 3 hours selected from HPE 111, 113, 114, 140, 141, 158, and 164.

A **Minor in Sport Management** is available for students majoring in non-teaching degree fields. A minimum of 18 hours which must include SMR 340, 355, 450, 476, 490 and HPE 301. A Minor in Sport Management is available for students majoring in non-teaching degree fields and may not be taken in conjunction with a major in Recreation Leadership.

DESCRIPTION OF COURSES GENERAL SERVICE COURSES (HPE)

104. **Aerobics and Fitness (3).** The course is designed to provide students with various aerobically based activities for overall fitness and health of the body.
109. **Concepts of Wellness (3).** Study of basic concepts of wellness including: nutrition, cancer prevention, addictions, and STDs, and physical fitness including principles of exercise, stress management, weight control, and the management of emergencies, accidents, and injuries.
111. **Beginning Hiking (1).** Basic skills in hiking including planning, clothing, map reading, safety, types of hikes and hiking trips (TBA).
113. **Mountain Biking (1).** Basic skills in off-road cycling.
114. **Bicycling (1).** An introductory course in the lifetime activity of cycling. A 10-hour lab is required. The safety, repair, riding, and value are covered.
115. **Beginning Fitness (1).** Introduction to basic physical fitness activities.
116. **Body Shaping (3).** An introduction to the basic principles of fitness as they relate to fatty weight loss and muscular development.
117. **Introduction to Yoga (1).** An introduction course in the ancient system of mind-body exercise that offers benefits including increased flexibility, greater strength, and improved concentration.
118. **Beginning Bowling (1).** Basic skills in bowling. Elective credit only, cannot be used to satisfy HPER requirements.
119. **Beginning Fencing (1).** Basic skills in foil fencing. Elective credit only, cannot be used to satisfy HPER requirements.
120. **Introduction to Pilates, (2).** The purpose of this course is to provide an Introduction to Pilates consisting of safety considerations, breathing techniques, and exercises for upper and lower body strength and endurance, core strength and endurance, and flexibility.
121. **Beginning Weight Training (2).** Basic skills in weight training.
122. **Beginning Tennis (1).** Basic skills in tennis.
123. **Beginning Racquetball (1).** Basic skills in racquetball

124. **Beginning Golf (1).** Basic skills in golf.
125. **Beginning Archery (1).** Basic skills in archery. Elective credit only, cannot be used to satisfy HPER requirement.
126. **Beginning Volleyball (1).** Basic skills in volleyball. Elective credit only, cannot be used to satisfy HPER requirement.
127. **Net Games (1).** Basic skills in badminton, pickle ball, and deck tennis.
128. **Table Games (1).** Basic skills in table tennis and billiards. Elective credit only, cannot be used to satisfy HPER requirements.
130. **Tap/Clogging Dance (1).** Basic skills in tap and clogging dancing.
132. **Folk/Square Dance (1).** Basic skills in folk and square dancing.
134. **Social/Ballroom Dance (1).** Basic skills in social and ballroom dancing.
136. **Ballroom, Fox Trot (1).** Introduction to Foxtrot, Slow Waltz, Viennese Waltz, and American Tango dances.
137. **Ballroom, Latin (1).** Introduction to Latin dance steps, such as merengue and salsa.
138. **Swing (1).** Instruction in "swing" dance steps, such as swing, jitterbug, rock and roll.
139. **Line Dancing (1).** Performing dance movements in unison to music and consists of patterned foot measurements that are performed to a number of counts in sequence. Several popular tunes will be used. Also, two-step will be introduced.
140. **Alpine Skiing (1).** Basic skills in alpine skiing. Six hours of dry-land instruction and three days (20 hours) of on-snow instruction. Students pay all expenses.
141. **Alpine Skiing II (1).** *Prerequisite: PE 140 or permission of instructor.* Advanced skills in alpine skiing. Four hours of dry-land instruction and three days (20 hours) of on-snow instruction. Students pay all expenses.
142. **Zumba (2).** The purpose of this course is to provide an introduction to Zumba consisting of safety considerations, techniques, and Zumba exercises for health-related fitness.
143. **Beach Volleyball (1).** Basic instruction in beach volleyball. Elective credit only, cannot be used to satisfy HPER requirements.
145. **Team Sports Skills (2).** The purpose of this course is to provide experiences that will lead to the development of team sports skills. In addition to skills acquisition, the course will focus on the development of the knowledge and positive dispositions associated with team sports activities. Students will be expected to achieve an intermediate level of skill in specified team sports.
150. **Beginning Swimming (1).** The adaptation of the water and basic strokes of swimming. Non-swimmers only.
151. **Aqua Aerobics (3).** Low impact exercises performed in the medium of water.
152. **Angling (1).** Basic fundamentals of fishing.
153. **Lifeguarding (2).** Elementary and advanced forms of rescue including: approaches, escapes, carries, removal from water, and preventive life guarding. ARC lifeguard certification awarded if CPR and first aid requirements have previously been met (See instructor for specific details). Student pays all expenses.
154. **Lifeguard Instructor (2).** *Prerequisites: Instructor certification in CPR and first aid (ARC) and current lifeguard certification.* Preparation to become certification instructor in Lifeguarding. Student pays all expenses.
155. **Community Water Safety (1).** The course covers emergency procedures, spinal injuries, and other aquatic activities. Student pays all expenses.
157. **Water Safety Instructor (2).** *Prerequisite: Current Lifeguard instructor certification.* Water Safety Instructor certification. A 10 hour laboratory is required. Student pays all expenses.
158. **Canoeing and Rafting (2).** Essential skills for river canoeing and whitewater rafting. Student pays all expenses.
159. **Scuba Diving (3).** Knowledge and skill development in scuba diving. Eight hours pool work, five hours open water diving. Experienced swimmers only. Student pays all expenses.
161. **Martial Arts (2).** Basic skills in aikido including: etiquette, warm-up activities, falls, throws, principles of movement and self-defense.
162. **Beginning Tai Chi (1).** A study of the 24 basic forms of Tai Chi, a martial art. Elective credit only, cannot be used to satisfy HPER requirements.
164. **Rock Climbing and Rappelling (2).** Students will participate in on-campus skill sessions and two weekends of natural rock climbing and cliff rappelling. Student pays all expenses.
170. **Basic Skills in Jazz Dance (1).** Basic skills in Jazz Dance. Elective only, cannot be used to satisfy HPER requirement.
189. **Academic Success for Student-Athletes (1).** For freshmen student-athletes to enhance successful transition from high school to college life. Orientation to the JSU Athletics program and NCAA rules and regulations are included. Special emphasis is placed on academic excellence, athletic excellence, personal and career development and a commitment of service to the campus and community.

191. **Varsity Sports (1).** Successful participation in major varsity sports (Male and Female). May be duplicated for credit to a maximum of eight semesters.

HEALTH AND PHYSICAL EDUCATION PROFESSIONAL COURSES (HPE)

165. **Introduction ESW (1).** An introduction to careers and opportunities in the field of exercise science and wellness. Students majoring in ESW are required to complete this course prior to their junior year. Practicum required.
209. **Essentials of Human Performance (3).** *Prerequisite: HPE 109.* An introduction to the scientific principles of the human body/organ systems as related to human performance. This course is recommended prior to BY 263 for ESW majors.
212. **Personal & Community Health (3).** The development of habits, attitudes, and knowledge concerning health, and the professional preparation of individuals' introduction to careers and opportunities in the field of exercise science and wellness.
232. **Sports Safety and First Aid Training (2).** This course is designed for in-depth study of emergency medical treatment in case of accidents or serious illness. The study of body functions, body framework and all types of injuries are considered. Student pays all expenses.
272. **Basic Athletic Training (3).** *Prerequisite or Co-requisite: HPE 209 or BY 263.* Introduction to the athletic training profession. Prevention, etiology, and management of athletic injuries will be stressed. Basic anatomy and first aid will be reviewed.
275. **Advanced Athletic Training (3).** *Prerequisite: HPE 272 or permission of instructor.* Advanced athletic training fundamentals including prevention, evaluation, care and etiology of athletic injuries. Legal, professional, and ethical considerations will be discussed. Student pays all expenses.
284. **Beginning Practicum in Athletic Training (1).** *Prerequisite: Consent of instructor.* An introduction to the basic principles of athletic training in the college environment. May be repeated a total of 4 times for credit.
285. **Beginning Practicum in Strength and Conditioning (1).** *Prerequisite: Consent of instructor.* An introduction to the basic principles of strength and conditioning in the college environment. May be repeated a total of 4 times for credit.
286. **Beginning Practicum in Personal Training (1).** *Prerequisite: Consent of instructor.* An introduction to the basic principles of personal training in the university wellness setting. May be repeated a total of 4 times for credit.
300. **Practicum in Physical Education (3).** *Prerequisite: Nine hours in physical education including HPE 303.* Directed experience in observations and participation in physical education classes. Seminars will be held in conjunction with this course.
301. **Industry Management (3).** *Prerequisite: Junior standing.* The purpose of this course is to introduce students to the fundamental concepts, principles, and best practices associated with managing a business within the industry of their major. This course was developed with the intent of providing students with a general overview of the management issues facing fitness professionals in their careers.
303. **Foundations of Physical Education and Sport Studies (3).** An introduction to the profession including physical activities, professional organizations, career opportunities, historical development, and development of a sound professional philosophy. Practicum required. HPE 303 is a prerequisite to HPE 355, 356, and 357. Successful completion of HPE 303 is also required prior to teacher education eligibility.
312. **Health Problems and Disease Prevention (3).** An overview of health problems confronting students in today's society. An analysis of a variety of personal, social and environmental factors is included.
315. **Community and Consumer Health (3).** This course explores a historical and philosophical study of the growth and development of science, health education, and health promotion.
318. **Health for Special Populations (3).** This course examines primary, secondary, and tertiary levels of prevention, and applies them to health promotion/disease prevention at various developmental stages.
320. **Seminar in Coaching Baseball (1).** Strategies and techniques for coaching baseball.
321. **Seminar in Coaching Basketball (1).** Strategies and techniques for coaching basketball.
322. **Seminar in Coaching Cheerleading (1).** Strategies and techniques for coaching cheerleading.
323. **Seminar in Coaching Defensive Football (1).** Strategies and techniques for coaching defensive football.
324. **Seminar in Coaching Offensive Football (1).** Strategies and techniques for coaching offensive football.
325. **Seminar in Coaching Golf (1).** Strategies and techniques for coaching golf.
326. **Seminar in Coaching Rifle (1).** Strategies and techniques for coaching rifle.
327. **Seminar in Coaching Soccer (1).** Strategies and techniques for coaching soccer.
328. **Seminar in Coaching Softball (1).** Strategies and techniques for coaching softball.
329. **Seminar in Coaching Tennis (1).** Strategies and techniques for coaching tennis.
330. **Seminar in Coaching Track & Field (1).** Strategies and techniques for coaching track and field.

331. **Seminar in Coaching Volleyball (1).** Strategies and techniques for coaching volleyball.
350. **Introduction to Personal Training (3).** *Prerequisite: Junior Standing.* The purpose of this course is to prepare the student to take a valid personal trainer certification exam. At the completion of the course, the student will have a basic understanding of the design and delivery of exercise programs for clients with varying levels of health with different needs and goals.
355. **Methods of Teaching Elementary Physical Education (3).** *Prerequisite: HPE 145, 303, and SMR 271. Corequisite: To be taken concurrently with HPE 356 and 357.* A course designed to teach the fundamentals of individual and dual sports basic to the physical education pro-gram. A practicum is required. HPE 355, 356, and 357 must be complete prior to teacher education eligibility.
356. **Methods of Secondary Physical Education (3).** *Prerequisite: HPE 145, 303, and SMR 271. Corequisite: To be taken concurrently with HPE 355 and 357.* A course designed to teach the fundamentals of team sports basic to the physical education program. A practicum is required. HPE 355, 356, and 357 must be complete prior to teacher education eligibility.
357. **21st Century Technology in HPE (3).** *Prerequisite: HPE 145, 303, and SMR 271. Corequisite: To be taken concurrently with HPE 355 and 356.* A course designed to teach the fundamentals of lifetime activities basic to the physical education program. A practicum is required. HPE 355, 356, and 357 must be complete prior to teacher education eligibility.
360. **Child and Adolescent Health and Wellness (3).** This course deals with child and adolescent health and wellness. Specifically, it deals with assisting children adolescents develop positive health habits.
362. **Kinesiology (3).** *Prerequisite: BY 263 or HPE 209.* A science of human motion, and analysis of body movements and action of muscles in human activities.
372. **Assessment of Athletic Injuries (3).** *Prerequisite: HPE 272 or permission of instructor.* Evaluation of injuries which occur in athletics. Special attention will be given to the orthopedic assessment of joint injuries.
375. **Therapeutic Exercise & Modalities (3).** *Prerequisite: HPE 209, 272, and BY 263 or permission of instructor.* Theory and use of therapeutic modalities and rehabilitative exercise. Students will have the opportunity to learn through special experience.
381. **Adapted Physical Education (3).** An introductory course in the field of Adapted Physical Education that provides an understanding of the nature, behavioral characteristics and motor limitations of various disabilities and basic skills necessary to prepare meaningful individualized movement experiences of individuals with special needs functioning in an integrated, segregated, community or home environment. A student practicum will be required.
385. **Practicum in Special PE & Rec (3).** Directed practical experiences in physical education and recreation with exceptional individuals. A student practicum will be required.
391. **Methods and Principles of Coaching (3).** Theory and technique of coaching. Psychological aspects and scientific principles of movement are considered.
394. **Practicum in Coaching (3)** Field experience in coaching
- 397, 398, 399. **Independent Study in HPER (1, 2, 3).** Opportunity for undergraduate students to explore a particular area of personal interest in HPER. Consent of instructor and department head required.
400. **Exercise Physiology (3).** *Prerequisite: BY 263.* The study of the effects of exercise on the various human physiological systems. Special attention will be given to energy metabolism, cardiovascular parameters, pulmonary function, muscle structure and function, neuromuscular integration, and environmental factors.
403. **Special Olympics and Athletics for Special Populations (3).** Historical and current trends overview of sports for the handicapped. All types of handicapping conditions will be considered. Special attention will be on Special Olympics activities. Active involvement in the Special Olympics will be required.
404. **Test and Measurements in PE (3).** *Prerequisites: HPE 303 and MS 110 or higher.* Techniques of test evaluation, administration, and interpretations. Emphasis on physical fitness, body mechanics, sports skills, and knowledge tests.
405. **Scientific Principles of Conditioning (3).** *Prerequisite: Junior standing.* Application of scientific principles to the training and conditioning of athletics are taught. Emphasis will be directed toward strength, endurance, and speed acquisition, ergogenic aids, and nutrition.
406. **Physical Fitness Techniques (3).** *Prerequisites: HPE 209, 362, 400.* Detailed analysis of techniques associated with instruction in aerobic and anaerobic exercise. Special emphasis is placed on weight training, dance aerobics, and aqua aerobics.
409. **Methods of Teaching PE, P-5 (3).** *Prerequisites: HPE 355, 356, 357. Teacher Education program eligibility. Corequisite: To be taken concurrently with HPE 410, 411, and 462.* Effective teaching practices and implementation of developmentally appropriate K-5 physical education instruction are taught.
410. **Methods of Teaching PE, 6-12 (3).** *Prerequisites: HPE 355, 356, 357. Teacher Education program eligibility. Corequisite: To be taken concurrently with HPE 409, 411, and 462.* Methods and techniques of teaching 6-12 physical education are taught.

- 411. Practicum in PE, P-12 (3).** *Prerequisites:* HPE 355, 356, 357. *Teacher Education program eligibility.* *Corequisite:* To be taken concurrently with HPE 409, 410, and 462. This is a field experience course specific to the application of methods and materials for P-12 physical education.
- 412. Special Projects in Health Education (3).** Student participation in solving actual problems related to health.
- 415. Biomechanics (3).** *Prerequisite:* HPE 362. This course is a study of human movement with emphasis on biomechanical principles and their application to sport and exercise.
- 416. Seminar in Health Education (3).** Problems involved in teaching issues in health education and related topics.
- 420. Health Aspects of Aging (3).** The physical, social, emotional, and mental aspects of healthy aging will be explored.
- 421. Intramural Sports I (3).** Organization and administration of intramural programs. Emphasis is on officiating the fall sports of football and volleyball. Laboratory arranged.
- 422. Intramural Sports II (3).** Organization and administration of intramural programs. Emphasis is on officiating the winter and spring sports of basketball & softball. Laboratory arranged.
- 440. Fitness Testing (3).** *Prerequisites:* HPE 362, 400, and assessment into the Exercise Science & Wellness Program. Detailed analysis of different fitness tests. Particular attention to cardiovascular tests, interpretation of results and prescription of exercise and activities.
- 441. Design of Wellness Programs (3).** *Prerequisites:* HPE 362, 400, 440, Senior Status, and assessment into the Exercise Science & Wellness program. Study of the different areas in wellness programming such as smoking cessation, nutrition, stress awareness, and various fitness programs. This class includes directed practical activities as well as a comprehensive semester project.
- 450. ESW Research Seminar (3)** *Prerequisite:* MS 204 or SY 304, HPE 400, and assessment into the Exercise Science & Wellness program. This class is designed to expose undergraduate students to research in the field of exercise science and wellness. Particular attention will be paid to developing a research idea, applying to the institutional review board for ethics approval, data collection, data analysis, and manuscript preparation.
- 460. Motor Development (3).** Theoretical and practical principles of motor development, with special emphasis on identification and assessment. A student practicum will be required.
- 462. Best Practices in Physical Education (3).** *Prerequisites:* HPE 355, 356, 357. *Teacher Education program eligibility.* *Corequisite:* To be taken concurrently with HPE 409, 410, 411. The study of curriculum, teaching methods, skills, and the organization and administration of PE programs. Ten hours practicum required.
- 465. Practicum in Exercise Science and Wellness (6).** *Prerequisites:* HPE 441, Senior Standing, assessment into the Exercise Science & Wellness program, and successful completion of an advisor approved national certification from the American College of Sports Medicine (ACSM) or the National Strength and Conditioning Association (NSCA). Practicum experiences in rehabilitative and/or preventative medicine with respect to ESW programming.
- 482. Seminar in Physical Education (3).** *Corequisites:* To be taken concurrently with ED 495 and ED 496. This course contributes to the preparation and meaningfulness of the student internship.
- 484. Advanced Practicum in Athletic Training (1).** *Prerequisite:* Consent of instructor. An introduction to the advanced principles of athletic training in the college environment. May be repeated a total of 4 times for credit.
- 485. Advanced Practicum in Strength and Conditioning (1).** *Prerequisite:* Consent of instructor. An introduction to the advanced principles of strength and conditioning in the college environment. May be repeated a total of 4 times for credit.
- 486. Advanced Practicum in Personal Training (1).** *Prerequisite:* Consent of instructor. An introduction to the advanced principles of personal training in the university wellness setting. May be repeated a total of 4 times for credit.

SPORT MANAGEMENT AND RECREATION STUDIES (SMR)

- 221. Foundations in Sport Management and Recreation (3).** The basic concepts of Sport Management and Recreation fields. Theories, concepts, philosophies, and common industry practices in sport management and recreation.
- 231. History of Sport (3).** This course will provide students with an understanding of the historical context on the development of sport. Students will learn how sport has shaped society, and how society has shaped sport over the course of time.
- 271. Recreational Games and Group Development Activities (2).** An introduction to games for all populations including recreational, educational, developmental, and therapeutic settings. Emphasis is on cooperative games and group development activities.
- 275. Outdoor Pursuits Expedition Field Seminar (3).** Intensive technical skills training in selected land and water outdoor pursuits including backpacking and canoe/kayak touring leading to certifications. Student pays all expenses.
- 301. Youth Sports Program (3).** Methods and principles of organizing and administering youth sports programs. Activities include direct practical experiences.

- 302. Field Experience in Recreation and Youth Leadership (3).** A minimum of 100 clock hours required. This course will provide practical field experiences in one of the following areas of concentration: community recreation and youth sports, camping and outdoor education, and youth development.
- 310. Camping and Outdoor Education (3).** The out-of-doors and its potential for enhancing the recreation program. Special emphasis is placed on activities in the out-of-doors. A review of the developments in out-of-doors education. Student pays all expenses.
- 311. Recreation for the Aged (3).** The course provides the student with knowledge of recreational activities suitable for the older adult. The class includes directed practical activities.
- 312. Organization and Administration of Camp Programs (3).** Methods of organization and administration of camp programs including knowledge of standards, utilization of facilities, and personnel roles.
- 321. Sports Officiating I (3).** Basic principles, concepts, mechanics, and rules applications for officiating football and/or volleyball athletic contests according to the policies of the National Federation of High School Associations.
- 322. Sports Officiating II (3).** Basic principles, concepts, mechanics, and rules applications for officiating basketball, and/or baseball/softball athletic contests according to the policies of the National Federation of High School Associations.
- 331. Topics in International Sport Management and Recreation (3).** The purpose of this course is to introduce students to the fundamental concepts associated with effective and successful international management strategies within the sport management and recreational leadership field.
- 335. Human Resource Management (3).** *Prerequisite: Junior Standing.* The purpose of this course is to introduce to students the fundamental concepts, principles, and application associated with managing employees in relation to the sport management and recreational leadership field.
- 340. Legal and Ethical Aspects of Sport Management and Recreation (3).** *Prerequisite: Junior Standing.* The purpose of this course is to introduce students to the fundamental concepts, principles, and application associated with the legal system in relation to sport management and recreation. This course was developed with the purpose of providing students with a general overview of legal issues that professionals in the sport management and recreational leadership field encounter.
- 355. Principles of Finance in Sport Management and Recreation (3).** *Prerequisite: Junior Standing.* The purpose of this course is to introduce students to the fundamental concepts, principles, and application associated with finance in recreation and sport management. It is a general sport finance course covering a broad variety of topics ranging from basic financial concepts to budget formats. This course was developed with the purpose of providing students with a general overview of the recreation and sport financial issues they are likely to encounter in their professional careers.
- 360. Challenge Course Programs and Management (3).** Provides theoretical and experiential understanding of program management practice associated with the use of the low challenge courses in education, recreation, and therapeutic settings. Technical skill development, facilitation strategies, safety procedures, equipment management, and program design are addressed.
- 420. Youth Development Leadership (3).** A comprehensive examination of theory and practice in contemporary youth development leadership and youth serving agencies.
- 425. Contemporary Issues in Sport Management and Recreation (3).** *Prerequisites: Senior Standing.* The purpose of this course is to introduce students to the fundamental concepts associated with current issues and trends within the sport management and recreational leadership field.
- 450. Sport and Recreation Facility Management (3).** *Prerequisite: Junior Standing.* This course is designed to introduce students to the principles, application, and topics of sport and recreation facility management. After completing this course students will have gained valuable insight into theory and practice of sport and recreation facility management for a diverse range of sport and recreation facilities.
- 466. Public and Media Relations (3).** *Prerequisite: Senior Standing.* The purpose of this course is to introduce students to the fundamental concepts associated with public and media relations within the sport management and recreation field.
- 476. Sport Management and Recreation Marketing (3).** *Prerequisite: Junior Standing.* This course is designed to introduce students to the principles and application of marketing theory to the sport and recreation industries. This is a general course covering a wide range of sport marketing topics. These topics include promotion and media relations in sport and recreation, licensing and sponsorship of sport products, and the marketing mix strategies for sport and recreation organizations. After completing this course, students will have gained valuable insight into the theory and practice of sport marketing strategies for a diverse range of sport and recreation organizations.
- 486. Sport Management and Recreation Promotion and Event Planning (3).** *Prerequisite: Senior Standing.* The purpose of this course is to introduce students to the fundamental concepts associated with promotion and event management within the sport management and recreation field.
- 490. Foundations of Recreation and Sport Administration (3).** *Prerequisite: Junior Standing.* The purpose of this course is to introduce students to the fundamental concepts, principles, and application associated with managing

recreation and sport organizations. It is a general recreation course covering a broad variety of topics ranging from the functions of management to organizational effectiveness.

- 492. Internship in Sport Management and Recreation (6).** *Prerequisites: SMR 490 and Senior standing.* Practical field experience in selected programs.

INSTRUCTIONAL SERVICES UNIT

102 RAMONA WOOD HALL

Director: Mike Zenanko
Coordinator: Timothy D. Whittemore

The Instructional Services Unit offers two elective classes to any JSU student who wishes to provide an academic service to area children.

INSTRUCTIONAL SERVICES UNIT (ISU)

DESCRIPTION OF COURSES

- 101. SERVICE LEARNING. (1).** Current techniques in tutoring to help improve the academic skills of K-12 children. Three hours lecture and ten hours tutoring.
- 102. SERVICE LEARNING. (2).** Current techniques in tutoring to help improve the academic skills of K-12 children. Five hours lecture and twenty hours tutoring.

DEPARTMENT OF APPLIED ENGINEERING

153 AYERS HALL

Department Head: Marbut
Full Professor: Bekhouche
Associate Professor: Godbey, Ingalsbe
Instructors: Marbut, Sult
Part-time: Phil Dean

The Department of Applied Engineering offers a Bachelor of Science degree with a choice of majors for students desiring to pursue careers in Applied Engineering or Management in industry. Additionally, the department offers a minor in Technology and a 2-year Pre-Engineering program for students planning to complete a traditional, professional engineering degree at another Institution.

Courses leading to the Bachelor of Science degree are offered for the following majors: **Applied Manufacturing Engineering (Design and Automation or Manufacturing Management), Applied Electronics Engineering, Industrial Leadership, and Occupational Safety and Health Management.** Requirements for these comprehensive degree programs include 66-67 semester hours of major courses. Students completing these programs are not required to have a minor in another academic discipline. All of the degrees offered through the department focus on the technological needs of manufacturing industries and, as degree programs of study, are designed to prepare management-oriented technical professionals. Programs offered within the Department involve the application of the knowledge and understanding of materials and production processes, concepts of management and human relations, safety, quality, communications, electronics, graphics, mathematics, physical sciences, and computer fundamentals in a problem-solving approach. Program graduates find employment opportunities in a variety of well-paid, professional positions.

The majors have unique provisions for persons already in the work-force and/or two-year college graduates who desire to continue their education and obtain a baccalaureate degree. Technical specialty credit (up to 36 semester hours) is awarded to students who have completed a diploma or associate degree from an approved technical, community, or junior college in an approved technical field. Technical specialty credit may also be awarded for approved management, supervisory, or technical work experience (3 semester hours per year for a minimum of 3 years up to a maximum of 6 years), or approved professional certification programs. In no case will technical specialty credit awarded exceed 36 semester hours, and it will only be awarded to students pursuing a major that is offered by the Department of Applied Engineering.

The Department also offers a **Technology minor** to benefit students majoring in other fields. The minor features a broad offering of courses in technology, including electronics, industrial management, manufacturing, production, quality, and safety. A minor in Technology requires a minimum of 21 hours consisting of: TEC 343, 361, 371, 380 and 9 additional semester hours in the same technical specialty area. Students majoring in any program offered through the Applied Engineering department will not be eligible for the Technology minor.

The two-year **Pre-Engineering program** offers a curriculum that will permit the majority of students to transfer with junior standing to most undergraduate engineering programs at other colleges and universities. A suggested pre-engineering program would include EH 101, 102, 141; HY 101, 102 or 201, 202; EC 221; CY 105, 106, 107, 108; MS 125, 126, 227, 344; PHS 211, 213, 212, 214; and EG 121, 201, 202, and 255.

High school students preparing for admission to the programs are encouraged to strengthen their background in mathematics and the physical sciences. Algebra, plane geometry, trigonometry, solid geometry, general science, physics, chemistry, and any advanced mathematics are all beneficial subjects for those wishing to study technology and engineering.

APPLIED ELECTRONICS ENGINEERING

FRESHMAN YEAR

Fall		Spring	
EH Comp 101	3	EH Comp 102	3
HY 101 or 201 ¹	3	TEC 210 Mach./Mfg. Processes	3
TEC 201 Microcomputers	3	TEC 211 AC/DC Circuits	3
MS 117, Adv Technical Math I	2	HY 102 or 202 ¹	3
Soc/Beh Science ²	3	MS 119, Adv Technical Math II	2
General Electives	2	General Electives	2
STU 101	0		
	16		16

SOPHOMORE YEAR

Fall		Spring	
Natural Science ³	4	Natural Science ³	4
General Electives	2	Soc/Beh Science ²	3
EG 255 Engineering Computation	3	Literature ⁴	3
EH 141 Speech	3	TEC 343 Managing Eng. Tech	3
TEC 351 CAD	4	TEC 380 Ind. Safety & Health	3
	16		16

JUNIOR YEAR

Fall		Spring	
TEC 225 Elec. Devices I	4	TEC 326/327 or TEC 417 ⁷	4/3
TEC 311 Elec. Digital	4	Literature	3
TEC 317 or TEC 366 ⁷	3	EH 322 Technical Writing	3
TEC 252 Programmable Controllers	3	TEC 451 or TEC 427 ⁷	3
TEC 344 Mfg. Cost Analysis	3	Fine Art ⁸	3
	17		15

SENIOR YEAR^{*}

Fall		Spring	
MS 204 or TEC 371	3	TEC 316 Advanced Electronics	4
TEC 416 or 429 ⁷	3	TEC 493 Senior Seminar	1
TEC 370 Cont. Qual. Imp.	3	TEC 494 Ind. Internship	2
TEC 457	3	General Electives	9
TEC Elective	3	General Electives	1
	16		16

**APPLIED MANUFACTURING ENGINEERING MAJOR
DESIGN & AUTOMATION CONCENTRATION**

FRESHMAN YEAR

Fall		Spring	
EH Comp 101	3	EH Comp 102	3
HY 101 or 201 ¹	3	TEC 210 Mach./Mfg. Processes	3
TEC 201 Microcomputers	3	TEC 211 AC/DC Circuits	3
MS 117, Adv Technical Math I	2	HY 102 or 202 ¹	3
Soc/Beh Science ²	3	MS 119, Adv Technical Math II	2
General Electives	2	General Electives	2
STU 101	0		
	<hr/>		<hr/>
	16		16

SOPHOMORE YEAR

Fall		Spring	
Natural Science ³	4	Natural Science ³	4
General Electives	2	Soc/Beh Science ²	3
Fine Art ⁴	3	Literature ⁴	3
EH 141 Speech	3	TEC 343 Managing Eng. Tech	3
TEC 351 CAD	4	EC 380 Ind. Safety & Health	3
	<hr/>		<hr/>
	16		16

JUNIOR YEAR

Fall		Spring	
EG 255 Eng. Computation	3	MS 204 or TEC 371	3
TEC 252 Prog. Controllers	3	EH 322 Technical Writing	3
TEC 361 Materials and Processes	3	TEC 355 Solid Modeling	3
TEC 366 Control Systems	3	TEC 451 Advanced PLC	3
TEC 370 Continuous Quality Impr.	3	TEC 365 Strength of Ind. Mat	3
General Electives	1	General Electives	1
	<hr/>		<hr/>
	16		16

SENIOR YEAR

Fall		Spring	
TEC 416 Robotics & Automation	3	TEC 460 CA Manufacturing	3
TEC 452 Managing & Net. CIMS	3	TEC 440 Mfg. Mgmt. Systems	3
TEC 344 Mfg. Cost Analysis	3	TEC 493 Senior Seminar	1
Literature ⁴	3	TEC 494 Ind. Internship	2
General Electives	4	General Electives	7
	<hr/>		<hr/>
	16		16

**APPLIED MANUFACTURING ENGINEERING MAJOR
MANUFACTURING MANAGEMENT CONCENTRATION**

FRESHMAN YEAR

Fall		Spring	
EH Comp 101	3	EH Comp 102	3
HY 101 or 201 ¹	3	TEC 210 Mach./Mfg. Processes	3
TEC 201 Microcomputers	3	TEC 211 AC/DC Circuits	3
MS 117, Adv Technical Math I	2	HY 102 or 202 ¹	3
Soc/Beh Science ²	3	MS 119, Adv Technical Math II	2
General Electives	2	General Electives	2
STU 101	0		
	<hr/>		<hr/>
	16		16

SOPHOMORE YEAR

Fall	Spring
Natural Science ³4	Natural Science ³4
General Electives2	Soc/Beh Science ²3
Fine Art ⁵3	Literature ⁴3
EH 141 Speech3	TEC 343 Managing Eng. Tech3
TEC 351 CAD4	TEC 380 Ind. Safety & Health3
16	16

JUNIOR YEAR

Fall	Spring
TEC 307 Industrial Training3	MS 204 or TEC 371.....3
TEC 330 Prod. & Inventory Control 3	EH 322 Technical Writing.....3
TEC 361 Materials and Processes3	TEC 342 Employer/Employee3
TEC 366 Control Systems3	TEC 484 Ergonomics3
TEC 370 Continuous Quality Impr.3	TEC 440 Mfg. Mgmt. Systems.....3
General Electives1	General Electives1
16	16

SENIOR YEAR

Fall	Spring
TEC 441 Project Management3	TEC 485 Industrial Safety Mgmt.3
TEC 341 Motion & Time Study3	TEC 442 Facilities Planning3
TEC 344 Mfg. Cost Analysis3	TEC 493 Senior Seminar1
Literature ⁴3	TEC 494 Ind. Internship2
General Electives4	General Electives7
16	16

INDUSTRIAL LEADERSHIP MAJOR

FRESHMAN YEAR

Fall	Spring
EH Comp 1013	EH Comp 1023
HY 101 or 201 ¹3	TEC 210 Mach./Mfg. Processes.....3
TEC 201 Microcomputers3	TEC 207 or TEC 211 ⁷3
MS 112, Algebra3	HY 102 or 202 ²3
Soc/Beh Science ²3	General Electives4
General Electives1	
STU 101.....0	
16	16

SOPHOMORE YEAR

Fall	Spring
Natural Science ³4	Natural Science ³4
Literature ⁴3	Literature ⁴3
Fine Art ⁵3	Soc/Beh Science ²3
EH 141 Speech3	TEC 370 Cont. Quality Improvement.....3
General Elective3	TEC 380 Ind. Safety and Health3
16	16

JUNIOR YEAR

Fall	Spring
TEC 300+ Electives ⁷6	TEC 405 Industrial Leadership II3
TEC 305 Industrial Leadership I3	TEC 342 Employer-Employee3
TEC 344 Mfg. Cost Analysis.....3	TEC 343 Managing Eng. Tech3
TEC 371 Quality Control3	EH 322 Technical Writing.....3
General Electives1	TEC 300+ Electives ⁷4
<hr/> 16	<hr/> 16

SENIOR YEAR*

Fall	Spring
TEC 300+ Electives by advisement3	TEC 491 Ind. Leadership Seminar.....3
TEC 407 Ind. Org. & Function3	TEC Electives ⁷8
TEC 485 Ind. Safety Mgt.3	General Electives5
General Electives7	
<hr/> 16	<hr/> 16

OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT MAJOR

FRESHMAN YEAR

Fall	Spring
EH Comp 1013	EH Comp 1023
HY 101 or 201 ¹3	TEC 210 Mach./Mfg. Processes3
TEC 201 Microcomputers3	TEC 207 or TEC 211 ⁷3
MS 117, Adv Technical Math I2	HY 102 or 202 ¹3
Soc/Beh Science ²3	MS 119, Adv Technical Math II2
General Electives2	General Electives2
STU 101.....0	
<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Fall	Spring
Natural Science ³4	Natural Science ³4
Literature ⁴3	Literature ⁴3
Fine Art ⁵3	Soc/Beh Science ²3
EH 141 Speech3	TEC 380 Ind. Safety & Health3
General Electives3	General Electives3
<hr/> 16	<hr/> 16

JUNIOR YEAR

Fall	Spring
TEC 344 Mfg. Cost Analysis.....3	TEC 343 Managing Eng. Tech3
TEC 370 Cont. Qual. Improvement3	MS 204 or TEC 371.....3
TEC 392 Fire Safety Tech3	TEC 382 or TEC 384.....3
Tech Electives3	TEC 307 Ind. Training.....3
General Electives4	EH 322 Technical Writing.....3
<hr/> 16	General Electives.1
	<hr/> 16

SENIOR YEAR

Fall	Spring
TEC 342 Employer-Employee3	TEC 484 Industrial Ergonomics3
TEC 485 Ind. Safety Mgt3	TEC 487 Systems Safety3
TEC 390 Hazard Control Tech3	TEC 489 Hazard Materials3
TEC 486 Safety Perm. Mgmt3	TEC 493 Senior Seminar1
TEC 488 Industrial Hygiene3	TEC 494 Ind. Internship2
General Electives1	General Electives4
16	16

¹Select one complete sequence: HY 101, 102 or 201, 202

²Select from: AN 224, GY 120, PSC 100, PSY 201, SY 221, EC 222

³Select from: CY 105, 106, 107, 108 or PHS 201, 202, 203, 204

⁴Select from: EH 201, 202, 203, 204, 219, 220, 231, 232

⁵Select from: ART 202, DR 242, MUS 233, FL 101

⁶Students will be required in their senior year to take a professional certification exam in meeting graduation requirements

⁷See advisor for approval ⁸Must have a grade of "C" or better

TECHNOLOGY (TEC)

DESCRIPTION OF COURSES

- 100. Technology Orientation (2).** Orientation to the department of Technology and Engineering. Topics include: Personal and social skills, academic study skills, technology career planning, advising, program requirements, and university organization. Field trips to local industries required.
- 201. Microcomputers – Appl. And Tech. (3).** Two hours lecture and two hours lab per week. An introduction to microcomputer hardware and applications of the microcomputer in industry. Hands on experience with computer system hardware and software.
- 207 Electrical, Fluid Power, and Mechanical Systems (3).** An introduction to electrical, mechanical and fluid power systems found in manufacturing. Topics include: safety, basic electricity, circuits, Inductors and capacitors, AC basics, transformers and three phase power, relays and motor starters, switches and sensors, hydraulics and pneumatics, mechanics and power transmission.
- 210. Machining/Manufacturing Processes (3).** An introduction to machining concepts and basic processes. Practical experiences with hand tools, jigs, drills, grinders, mills and lathes is emphasized.
- 211. AC/DC Circuits (3).** *Prerequisite: MS 112.* Two hours lecture and two hours lab. Scientific and engineering notation; voltage, current, resistance and power, inductors, capacitors, network theorems, phaser analysis of AC circuits.
- 225. Electronics Devices I (4).** *Prerequisites: MS 112 and TEC 211.* Three hours lecture and two hours lab. First course in solid state devices. Course topics include: solid state fundamentals, diodes, BJTs, amplifiers and FETs.
- 252. PROGRAMMABLE CONTROLLERS (3).** *Prerequisite: TEC 201 or equivalent.* Two hours lecture and two hours lab. Study of basic industrial control concepts using modern PLC systems.
- 305. INDUSTRIAL LEADERSHIP (3).** *Prerequisite: Sophomore or higher standing.* Analysis and development of the competencies and knowledge required of industrial leaders to effectively manage production and work teams in a dynamic workplace comprised of a diverse population.
- 307. INDUSTRIAL TRAINING (3).** *Prerequisite: TEC 201 or equivalent.* Study of time analysis methods used to determine training requirements, assessing personnel and training resources as well as planning, coordinating and evaluating training.
- 311. ELECTRONICS – DIGITAL (4).** *Prerequisite: TEC 201 or equivalent.* Three hours lecture and two hours lab per week. Introduction to digital logic, binary numbers and codes, Boolean algebra, gating networks, flip-flops and registers, sequential and combinatorial logic circuits and semi-conductor memories.
- 316. ADVANCED ELECTRONICS (4).** *Prerequisites: TEC 225, 311, or equivalents.* Three hours lecture and two hours lab per week. In-depth study of selected electronic concepts. Topics include: computer analysis of major digital logic families, introduction to state logic, transmission lines, and A/D conversion.
- 317. INDUSTRIAL NETWORKING I (3).** *Prerequisites: TEC 201 or equivalent.* Network fundamentals, routing, Lan switching, wireless and wide area networks.
- 318. PROBLEMS IN ROBOTIC DESIGN AND PROGRAMMING (3).** *Prerequisites: EG 255 or permission of instructor.* Problems involving the application and integration of robotic design, remote controls of robots, and programming robots for autonomous control.
- 319. ADVANCED PROBLEMS IN ROBOTICS DESIGN AND PROGRAMMING (3).** *Prerequisites: EG 255 and MS112/113/125 or permission of the instructor.* Problems involving the application and integration of robotic design,

remote control of robots, and programming robots for autonomous control. This is the second of two courses that constructs and programs a robot to compete in the ATMAE annual robotics contest.

- 326. **ELECTRONIC DEVICES II (3).** *Prerequisite:* TEC 225. Second course in solid state devices. Topics include: amplifier frequency characteristics, UJT, SCR, OPTO devices, operational amplifiers, filters, and voltage regulators.
- 327. **ELECTRONIC DEVICES LAB (1).** *Corequisite:* TEC 326. Three hours lab per week. Experiments involving basic electronic devices.
- 330. **PRODUCTION AND INVENTORY CONTROL (3).** *Prerequisite:* *Sophomore Status*. Examines the issues involved in effective manufacturing, production and inventory control and shows their interrelatedness.
- 341. **MOTION AND TIME STUDY (3).** *Prerequisite:* MS 112. Analysis of motions necessary to perform industrial operations; motion economy; development of ratings, allowances, standard data, formula construction, work sampling, wage payment and performance training.
- 342. **EMPLOYER-EMPLOYEE RELATIONS (3).** *Prerequisite:* *Sophomore Status*. Theory and policy to perform industrial relations; organization and administration, theories of work, labor relations, commitment and morale, communications, employee benefits and services.
- 343. **MANAGING ENGINEERING TECHNOLOGY (3).** *Prerequisite:* *Sophomore Status*. Examination and planning of manufacturing operations, personnel, control methods, equipment and supplies.
- 344. **MANUFACTURING COST ANALYSIS (3).** *Prerequisites:* MS 112 and TEC 201 or equivalent. Technical and economic evaluation of manufacturing operations to determine cost and feasibility.
- 351. **COMPUTER-AIDED DESIGN (4).** *Prerequisite:* MS 112 or higher. Three hours lecture and two hours lab. Interpreting engineering drawings and the creation of computer graphics as applied to two-dimensional and three-dimensional drafting and design.
- 355. **SOLID MODELING (3).** *Prerequisite:* TEC 351 or equivalent. Two hours lecture and two hours lab each week. A parametric, feature based, solid modeling 3D computer-aided design course for mechanical design.
- 361. **MATERIALS AND PROCESSES OF INDUSTRY (3).** *Prerequisite:* TEC 210 or equivalent. Selection/altering of industrial materials to increase their value, and how they are used in manufacturing. Emphasis on metal and plastics but other materials are discussed.
- 365. **STRENGTH OF INDUSTRIAL MATERIALS (3).** *Prerequisite:* MS 113 or MS 118 or equivalent. Internal stresses and deformation of bodies resulting from action of external forces; concepts and techniques of testing tensile, compression, shear, transverse, hardness, elasticity on various materials and fasteners.
- 366. **CONTROL SYSTEMS TECHNOLOGY (3).** *Prerequisite:* TEC 211. Coverage of control systems fundamentals to include: open and closed loop systems, measuring instruments characteristics, sensors in control systems, manipulation methods, and types of control systems.
- 370. **CONTINUOUS QUALITY IMPROVEMENT (3).** *Prerequisite:* TEC 210 or equivalent. An introduction to the concept of continuous quality improvement and its implementation using process improvement teams.
- 371. **QUALITY CONTROL IN INDUSTRY (3).** *Prerequisites:* MS 112 and TEC 370. Methods and procedures employed in industrial quality control, theories of measurement, error, prediction, sampling, tests of significance and models.
- 380. **IND. SAFETY AND HEALTH (3).** Principles of hazard identification. Engineering and administrative controls and personal protective equipment. Accident analysis and corrective action.
- 382. **STANDARDS OF IND. SAFETY (3).** *Prerequisites:* TEC 210 and TEC 380. Standards for plants and manufacturing operations. Enforcement of safety standards and OSHA checklist.
- 384. **CONSTRUCTION SAFETY (3).** *Prerequisite:* Tech 380. Concepts of construction safety and health and an in-depth coverage of federal and state construction safety regulations. Recognition and control of construction hazards, fall protection scaffolding, excavation, and crane safety.
- 390. **HAZARD CONTROL TECHNOLOGY (3).** *Prerequisites:* TEC 211 and TEC 210 and TEC 380. Principles and methods for the analysis and design of processes, equipment, products, facilities, operations and environment.
- 392. **FIRE SAFETY TECHNOLOGY (3).** *Prerequisite:* MS 112. Fire chemistry and propagation. Recognition and control of fire hazards, fire codes, risk, reports and records, and emergency response.
- 400. **MANUFACTURING CONCEPTS (3).** This course introduces technical education teachers to the principles, practices, and techniques for managing manufacturing technologies.
- 401. **CAREER TECHNOLOGIES (3).** Development of operational skills for technical education and career technology teachers.
- 405. **INDUSTRIAL LEADERSHIP II (3).** *Prerequisite:* TEC 305. Advanced analysis and development of the competencies and knowledge required of industrial leaders to effectively manage production and work teams in a dynamic workplace comprised of a diverse population.
- 407. **INDUSTRIAL ORGANIZATION & FUNCTION (3).** *Prerequisite:* TEC 305. A study of the development and organization of industry and the major functions to include research & development, production, financial control, marketing, and labor. Emphasis on contemporary issues associated with a global economy.

- 416. MANUFACTURING AUTOMATIONS AND ROBOTICS (3).** *Prerequisite: TEC 201.* Examination of how industrial controls, and industrial robots function in an automated manufacturing environment. Students learn the theory of operation, how to program, and the practical application of robotic systems. Topics will also include software applications and the integration of control systems for manufacturing.
- 417. INDUSTRIAL NETWORKING II (4).** *Prerequisite: TEC 317 or equivalent.* Advanced routing and switching in an enterprise network.
- 427. INDUSTRIAL NETWORKING III (3).** *Prerequisite: TEC 417 or equivalent.* Monitoring and maintaining complex, enterprise routed and switched IP networks.
- 429. APPLIED DIGITAL COMMUNICATIONS SYSTEMS (3).** *Prerequisite: TEC 201 or equivalent.* A detailed study of digital communications techniques. Topics include: sampling and digital pulse modulation, communications networks and standards, protocol and troubleshooting, digital multiplexing and cellular communications.
- 436. INVENTORY MANAGEMENT (3).** *Prerequisite: TEC 330.* Prepares students for positions in the field of production and inventory management through understanding of production scheduling, implementation and design.
- 440. MANUFACTURING MANAGEMENT SYSTEMS (3).** *Prerequisites: TEC 343 and TEC 344.* The analysis, design, and implementation of world class manufacturing systems for the manufacture of superior, low cost parts. Topics include lean manufacturing, cellular manufacturing, manufacturing teams, integrated quality systems, and other current manufacturing management strategies.
- 441. PROJECT MANAGEMENT (3).** *Prerequisites: TEC 201 and TEC 343.* Prepare students for managing projects in manufacturing and service industries through understanding of how to plan, manage, and deliver projects on time and within budget and how to effectively contribute in project teams.
- 442. FACILITIES PLANNING (3).** *Prerequisites: TEC 343.* Macro and micro level examination of facility planning. Course includes techniques and procedures for developing an effective facility layout including collection, analysis, and development of vital and relevant data with emphasis on manufacturing facilities.
- 451. ADVANCED PROGRAMMABLE CONTROLLERS (3).** *Prerequisite: TEC 252.* Two hours lecture and two hours lab. Study of advanced control concepts using modern programmable controllers with detailed study of selected controllers. Study of recent controller architectures with emphasis on data communications.
- 452. MANAGING AND NETWORKING CIMs (3).** *Prerequisites: TEC 351 and 460.* Two hours lecture and two hours lab. CIM group productivity techniques to include basic CIM management concepts, basics of networking, and advanced customization.
- 460. COMPUTER-AIDED MANUFACTURING (3).** *Prerequisite: TEC 351 and MS 118.* Three hours lecture and one hour lab. Utilization of computer technology in the automation of manufacturing systems.
- 484. INDUSTRIAL ERGONOMICS (3).** *Prerequisite: MS 112.* Concepts and techniques of work measurements, human factors, and industrial safety and hygiene are merged to provide a comprehensive view of the workplace.
- 485. INDUSTRIAL SAFETY MGT. (3).** *Prerequisites: TEC 380 and TEC 343.* Planning, implementation and evaluation of industrial safety programs.
- 486. SAFETY PERFORMANCE MANAGEMENT (3).** *Prerequisites: PSY 201 and TEC 485.* Concepts and methodologies for evaluating performance of safety programs with emphasis on human behavior and the role of management in influencing safety performance.
- 487. SYSTEMS SAFETY (3).** *Prerequisites: TEC 380 and MS 204 or TEC 371.* Principles and techniques of systems safety analysis to assure safe operation of systems and facilities throughout the life cycle from design to disposal.
- 488. INDUSTRIAL HYGIENE (3).** *Prerequisite: TEC 380.* Recognition, evaluation, and control of toxic hazards in the work environment. Acute and chronic systemic effects of environmental toxins in the workplace.
- 489. HAZARDOUS MATERIAL TECH. (3).** *Prerequisite: TEC 380.* Practical management and control of hazardous materials and wastes for the safety professional.
- 491. INDUSTRIAL LEADERSHIP SEMINAR (3).** Students related modern leadership practices to practical industrial situations.
- 493. SENIOR SEMINAR. (1).** *Prerequisites: EH 322 or equivalent, Senior Standing and consent of Instructor. Corequisite: TEC 494.* Coverage of terms, concepts, tools, and skills needed (industrial business, ethics, tech presentations) to succeed as a professional in technological and engineering environments. Pass/Fail only.
- 494. INDUSTRIAL INTERNSHIP (2).** *Prerequisites: EH 322 or equivalent, Senior Standing and consent of Instructor. Corequisite: TEC 493.* Provides Technology majors with practical industrial experiences via an approved internship arrangement. Pass/Fail only. This class may be taken twice.
- 495. SPECIAL TOPICS IN TECHNOLOGY (3).** *Prerequisites: Senior status and approval of department head.* Special topics of current interest to groups of students in the Technology program concerning content not presented in regular course offerings.
- 496. ADV. PROBLEMS IN TECHNOLOGY (3).** *Prerequisites: Senior status and approval of department head and EH 322 or CBA 350.* Problems involving the application and integration of electronics, industrial safety, quality, industrial

management, and/or computer integrated manufacturing technology. This may include an industrial practicum and/or internship.

498. **SME PREP (2).** *Prerequisite: Senior status.* An in-depth and through coverage of the terms, concepts, tools 232 and skill needed to obtain the certification of Certified Manufacturing Technologist.

ENGINEERING (EG) DESCRIPTION OF COURSES

112. **ENGINEERING METHODS. (3).** *Prerequisite or Concurrently: MS 113 or permission of instructor.* The use of applied mathematics in solving elementary scientific and engineering problems. Topics include basic mathematical analysis, the electronic calculator, unit systems, metrication, engineering statistics, laboratory procedures and measurements, and computer applications. Three hours lecture.
121. **ENGINEERING GRAPHICS I (4).** *Prerequisite: MS 112 or higher.* Orthographic and isometric projections; multiview projection on principal and auxiliary planes; dimensioning; detail and assembly working drawings. Interactive two-dimensional and three-dimensional computer-aided graphics. Three hours lecture and two hours laboratory each week.
201. **APPLIED MECHANICS – STATICS (3).** *Prerequisites: EG 112, PHS 211, and/or concurrently, MS 126.* Analysis of the principles of mechanics and their engineering applications. Forces; moments and couples; resultants of force systems; equilibrium, friction, centroids, moments of inertia.
202. **APPLIED MECHANICS – DYNAMICS (3).** *Prerequisites: EG 201 and MS 126.* Absolute and relative motion; force, mass and acceleration; work and energy; impulse and momentum; mechanical vibrations.
226. **ELECTRICAL CIRCUITS ANALYSIS I (3).** *Prerequisites: PHS 211 and MS 125.* Electric and magnetic circuit concepts; transient and steady-state solutions of simple circuits. Phasor analysis of AC circuits and network theorems.
251. **ENGINEERING SURVEYING (3).** *Prerequisite: EG 112.* The use of tapes, levels, transits, and surveying instruments including the theodolite will be studied and applied to problems involving position, area, volume, grade, mapping, distance, evaluation, analysis or error, and land surveying. Two hours lecture and three hours lab.
255. **ENGINEERING COMPUTATION (3).** *Prerequisite: MS 113 or equivalent.* Programming, with introduction to numerical methods useful in the solution of engineering, scientific, and mathematical problems. The course is implemented using a high-level programming language. Two hours lecture and two hours integral non-scheduled laboratory required each week.
320. **ENGINEERING ECONOMY (3).** *Prerequisite: MS 112 or equivalent.* Annual cost; present worth, rate of return, and profit-cost methods of determining prospective differences among alternatives; depreciation, tax and cost analysis; and replacement and retirement analysis.
328. **ELECTRICAL CIRCUITS LABORATORY (3)** *Prerequisite: EG 226.* Experiments related to electrical circuits. Application and verification of the principles in electrical circuits. Three hours laboratory hours per week.
343. **STRENGTH OF MATERIALS (4).** *Prerequisites: EG 201 and MS 126.* Stress-strain relationships; behavior of materials in tension, compression and shear; column formulae; combined stress computations; theorem of three moments; composite structural members.
361. **THERMODYNAMICS (3).** *Prerequisites: MS 227 and PHS 211.* Heat and work; thermodynamic systems and equations of state; the zeroth, first, and second laws of thermodynamics; change of phase; the combined first and second laws; irreversibility and availability of energy; mixtures of ideal gases; psychrometry.
373. **FLUID MECHANICS (3)** *Prerequisites: MS 126 and PHS 211.* Fluid statics; the conservation equations and their applications; dimensional analysis and similitude; flow in closed and open conduits; one-dimensional compressible flow.
374. **FLUID AND THERMAL LABORATORY (1).** Laboratory in fluid mechanics, thermodynamics, and related areas. Typical experiments are flows in pipes and channels, flow control devices, gas laws, compressible flow, engine performance. Three laboratory hours per week.

LURLEEN B. WALLACE COLLEGE OF NURSING

WALLACE HALL

Accredited by:
Commission on Collegiate Nursing Education
One Dupont Circle, NW, Suite 530
Washington, DC 20036-1120
(202) 887-6791

Dean: Christie Shelton
Associate Dean: Elizabeth Gulledge
Professor: Peinhardt, Williams-Prickett
Associate Professors: Shelton, Waits,
Assistant Professors: Edge, Gulledge, Helms, L. Hill, Keith, Walker, Williamson
Instructors: Acker, Akisanya, Barrow, Bougere,, Craven, Daugherty,
DeWeese, Duckett, Etheredge, Frank, Gramling, Killen,
Lewis, Morrow, Pearce, Robinson, Scroggin

The Lurleen B. Wallace College of Nursing is approved by the Alabama Board of Nursing, which entitles its graduates to apply to write the National Council Licensure Examination for Registered Nurses (NCLEX-RN). The College is accredited by the Commission on Collegiate Nursing Education. Accreditation is an indication of public approbation, attesting to the quality of the educational program and the continued commitment of the sponsoring institution to support the program.

Students begin the nursing program by taking core requirement courses. A separate application is filed to request assessment into the clinical portion (upper division) of nursing. The College assesses students for eligibility for the upper division nursing program in the Spring and Fall of each year. The deadline for submission of application for assessment to the upper division program of nursing is June 1st for Fall and October 1st for Spring. Late applications are not accepted. Only students who have been admitted to Jacksonville State University and who meet eligibility requirements may apply for assessment into the upper division nursing program. Those planning to apply for assessment into the upper division nursing program should contact the Director of Student Services in the College of Nursing well in advance of the application deadline in order to confirm eligibility.

Entry into the upper division of nursing requires completion of all core requirement courses with a core requirement Grade Point Average (GPA) of 2.50 or above and a minimum grade of "C" in each core requirement course. If a course is taken more than one time, all grades earned up to and including the first passing grade of "C" or above are used in the calculation of the core requirement GPA. Once a passing grade of "C" or above has been earned in a course, that course cannot be repeated for a higher grade. Students who do not meet the above standards are not eligible to apply for Assessment into upper division. Each student's record will be assessed for completion of core requirements and as a basis for approval to enter the upper division. The review process may include a personal interview with the candidate, a background check, contact with personal references, and, if the student has been enrolled in other nursing programs, contact with previous nursing faculty. The assessment process may also include evaluation of essential academic skills and critical thinking. Students admitted to the University Fall 2014 and thereafter must have a current ACT score (within 5 years). Students who have English as a second language must present a minimum score on the TOEFL (Test of English as a Foreign Language) exam taken within four years. To be eligible for assessment into upper division, minimum scores are: 560 for TOEFL Written (paper based), 220 for TOEFL CBT (computer based), or 83 for iBT (internet based). Students native to countries where English is a commonly used language and/or those who have been living in a country for many years where English is a primary spoken language may request a waiver of this requirement. A student who has been enrolled in any upper division nursing program (RN or LPN) and was unsuccessful in progressing satisfactorily in that program is not eligible to apply. The College of Nursing reserves the right to limit the number of students enrolled in nursing courses in order to make the most effective use of the educational resources available. Because of limited resources, eligibility for the program is competitive; all students who qualify may not be selected. Students must comply with all College of Nursing policies for entrance into and continuation in the nursing program, which include but are not limited to, a clear criminal background check and drug screen.

The student is advised to review qualifications for licensure as well as grounds for denial of licensure before beginning the nursing major. Qualifications for RN licensure by examination in Alabama include: high school graduation or the equivalent, as determined by the Board; good moral character, and successful completion of requirements for graduation from a Board-approved registered nurse program (Alabama Board of Nursing Administrative Code 610-X-4-01 and 610-X-8-02.0). While an applicant may meet the above qualifications, final approval to take the licensure examination and become licensed in Alabama is subject to action by the Board of Nursing. A criminal background check may be conducted by the Board at its discretion.

Grounds for denial of an RN license by examination in Alabama include but are not limited to: failure to meet any requirement or standard established by law or by rules and regulations adopted by the Board; engaging in fraud, misrepresentation, deception, or concealment of a material fact in applying for or securing licensure or taking any examination required for licensure; any course of conduct that would be grounds for discipline by the Board under Administrative Code 610-X-8-03 including but not limited to conviction of a felony; conviction of, or entering a plea of guilt regardless of disposition, of a misdemeanor or felony involving moral turpitude or gross immorality (drugs, theft,

lewdness, sexual misconduct, abuse, violence, fraud, or any other conduct detrimental to the public's health, safety, or welfare); having been court-martialed or administratively discharged from any branch of the United States Armed Forces for any act of conduct that would be grounds for discipline by the Board under Administrative Code 610-X-8-03; failure to show good moral character as pertaining to nursing; abuse of, or addiction to, alcohol or other drugs, including misappropriation or diversion of drugs from the workplace, testing positive for alcohol and/or unauthorized mood altering drugs; impairment while on duty due to alcohol or drugs; refusal to submit to a drug screen for cause; being mentally incompetent; unprofessional conduct of a character likely to deceive, defraud, or injure the public in matters pertaining to health; any other reasons authorized by law (Code of Alabama, 1975, Section 34-21-25 and Section 34-21-2(1); Alabama Board of Nursing Administrative Code 610 X-8-02 and 610-X-8-03). A criminal and/ or drug history could result in denial of permission to take the licensure examination. Applicants must also disclose (on the application to take the licensure exam) arrests that did not result in convictions and attach those court records to the application.

DESCRIPTION OF COURSES NURSING (NU)

121. **Ethics in Nursing (3).** Examines ethical reasoning and decision-making in relation to moral, legal, and professional standards. Specific issues confronting the health care delivery system will be analyzed.
130. **Medical Terminology (3).** This online course introduces the elements of medical terminology and provides students with a basic understanding of the language used by healthcare professionals. Knowledge of prefixes, suffixes, word roots is emphasized. Singular and plural forms of medical terms are identified, along with emphasis on word analysis, word building and pronunciation. These guidelines are applied to diverse body systems. Each body system is briefly reviewed and common diagnostic, laboratory, and surgical procedures are introduced.
131. **Introduction to Healthcare (3).** This course has been designed to be used with your textbook to provide a comprehensive course covering the concepts of the healthcare organization culture, implications for ethical and legal decision making, and the vital components of professionalism. This online course has been created incorporating the QSEN competencies; therefore, professional concepts such as patient safety, patient centered care, quality improvement, health informatics, evidence based practice, teamwork and collaboration will be explored.
300. **RISE to Success: Professional Communication and Accountability (0).** *Prerequisite: Assessment into upper division.* This course is designed to provide a network of communication and support for at-risk students after completion of the initial RISE course. Students engage in open, ongoing communication with course faculty related to their outcomes in nursing coursework. The primary focus is incorporating effective communication techniques and collaboration to develop personal knowledge, skills, and attitudes needed to deliver safe and effective patient care. Lab required.
301. **RISE to Success: Leadership in Critical Thinking and Clinical Prevention (1).** *Prerequisite: Assessment into upper division.* This course is designed to broaden student understanding of key nursing concepts. Through a variety of learning strategies students will develop decision-making skills applicable to the clinical setting. Lab required.
302. **Preparation for NCLEX Success (2).** *Prerequisite: Assessment into upper division.* This offered in fifth semester of the nursing curriculum is designed to prepare students for the NCLEX-RN exam. Individual plans for success are established based on areas of deficiency. Through standardized testing and self-analysis, students identify areas needing improvement and work to increase knowledge.
303. **RISE to Success: Integration of Knowledge and Skills into Practice (3).** *Prerequisite: Assessment into upper division.* This course is designed as the initial course to assist students who are identified as at-risk and admitted to the RISE program. Students are introduced to effective strategies to promote learning and are individually guided by the instructor. Diverse strategies are utilized to increase perceived self-confidence and knowledge to facilitate success in nursing school. Assigned activities will include a variety of learning experiences i.e., online, classroom, clinical laboratory or simulation.
304. **RISE to Success: Scholarship of Nursing Practice (3).** *Prerequisite: Assessment into upper division.* This is a clinical course designed to facilitate essential skills for safe, effective nursing practice. Evidence-based research, clinical judgment, and interprofessional perspectives are incorporated into making decisions related to all steps of the nursing process. This course is designed to facilitate competency in clinical skills.
305. **A Bridge to Success (0).** *Prerequisite: Assessment into upper division.* This course is a 1 day workshop offered just prior to the first semester nursing courses, designed to enhance skills needed for success in the baccalaureate nursing program. Emphasis will be on the acquirement, development, and utilization of proper study, time management, stress management, and learning style strategies to enhance success and thus improve retention.
306. **Pharmacology (4).** *Prerequisite: Assessment into upper division. Concurrent enrollment in NU 306, 309 and 311 required.* Designed to introduce the nursing student to the basic principles of drug therapy, drug calculations, and drug classifications. Lab required.
309. **Health Assessment (4).** *Prerequisite: Assessment into upper division. Concurrent enrollment in NU 306, 309 and 311 required.* Focuses upon patient assessment and nursing diagnosis, utilizing the approaches of history-taking and physical examination. Lab required.
311. **Foundations of Nursing Practice (6).** *Prerequisite: Assessment into upper division. Concurrent enrollment in NU 306, 309 and 311 required.* This clinical nursing course provides the first contact with individuals/families as

clients/patients and emphasizes the development of skills in problem-solving, nursing process, communication, and therapeutic nursing interventions. Lab required.

313. **Online Orientation to the STEP Program (0).** Required course for all new admissions to the STEP Program and provides each student with valuable information about Blackboard, distance learning, GEM (Gamecock Electronic Mail), book list and policies with the College of Nursing.
322. **Health Deviations and Clinical Interventions (3).** *Prerequisite: Completion of first semester upper division courses.* An in-depth study of disease processes across the life span. Health promotion and disease prevention will be integrated by emphasizing risk factors and relevant therapeutic approaches to reduce the incidence of acute and chronic health problems.
325. **Adult Health in Secondary and Community Settings (5).** *Prerequisite: Completion of first semester upper division courses.* Course through which students learn the responsibilities of professional nursing in providing nursing care to the adult patient with various medical-surgical problems. Lab required.
326. **Psychiatric Mental Health Nursing (5).** *Prerequisite: Completion of first semester upper division courses.* This course is designed to enable students to understand the dynamics of psychiatric nursing and mental health, with an emphasis on the holistic therapeutic care of psychiatric patients/families as well as the therapeutic use of self. The concentration of the course will be focused on the attainment of knowledge regarding psychiatric diagnoses, utilization of the nursing process in providing therapeutic nursing care, understanding appropriate treatment modalities and the establishment of the nurse-patient relationship as it deals with the psychopathological behavior found in the psychiatric patient. Clinically, the student will be utilizing and employing the theoretical aspects in nursing assessment and patient care, one-to-one interactions, group situations, healthcare team discussions, as well as supervision sessions. Lab required.
330. **Death: Nursing Care of the Individual and Family. (3).** Elective in Nursing. *Prerequisite: Assessment into upper division and successful completion of first semester upper division.* Designed to allow students to expand their knowledge and understanding for end-of-life nursing care. This course will provide a learning experience to expand the student's knowledge in providing comfort, utilization of special assessment techniques for complex patient symptoms, as well as assisting the family and patient to cope with suffering, grief, loss and bereavement. The course will build upon basic nursing principles and will expand student's working knowledge of legal and ethical principles, ability to analyze the complex issues surrounding dying and barriers to competent end-of-life care.
340. **Professional Practice and Care of the Aging Population (3).** *Prerequisite: Completion of first semester upper division courses.* Provides an overview of the aging process with an emphasis on the development theories, physiological changes and psychosocial concepts related to the older adult.
341. **Concepts of Human Sexuality (3).** Elective in nursing. Selected conceptions and misconceptions of human sexuality are analyzed in relationship to their implications for the professional nurse role.
343. **Concepts of Emergency/Disaster Nursing (3).** . *Prerequisite: Assessment into STEP Program for RN Students only.* Course designed to assist students in utilizing knowledge from the biophysical and psychosocial sciences to implement care for patients in the pre-hospital emergency setting.
344. **Perspective in Women's Health (3).** Elective in Nursing. *Prerequisite: for RN Students only.* Provides an overview of current women's health issues across the lifespan. Course focuses on the social, political, economic, and cultural influences on women's health.
345. **Communication of Ethical Issues (4).** *Prerequisite: Assessment into STEP Program.* For RN students only. Using ethical decision making as a framework, professional communication will be evidenced through peer critique and scholarly writing. Personal and professional values will be identified through technical, analytical, persuasive, and creative writing.
347. **Lifestyle Strategies for Optimal Health (3).** Elective in nursing. Course designed to assist nursing students in assessing health risks of individuals/families and in intervening appropriately, thus promoting health and reducing risk for disease, disability, and premature death.
350. **Professional Roles (5).** *Prerequisite: Assessment into STEP Program.* For RN students only. Course designed to assist the Registered Nurse in making the transition to the professional role (BSN).
352. **Health Assessment Across the Lifespan (3).** *Prerequisite: Assessment into STEP Program.* For RN students only. Provides a foundation for developing a holistic approach as it applies to the physiological, psychological, sociocultural, and environmental health status of individuals. Designed to assist the Registered Nurse with improving communication skills, interview techniques, history-taking, and physical examination techniques in patient/client evaluations.
365. **Pharmacology for Practicing Nurses (2).** *Prerequisite: Assessment into STEP Program.* For RN students only. This course focuses on current pharmacological concepts for practicing nurses. Emphasis is on current drug classifications, commonly used drugs, assessing client responses to drug therapy, client teaching and nursing interventions related to drug therapy.
400. **Research and Outcomes Management (2).** *Prerequisite: Completion of first and second semester upper division courses or assessment into the STEP Program.* Designed to assist students to develop knowledge and skills in the research process, to become consumers of research, and to conceptualize the significance of research as the foundation of evidence-based nursing practice.

- 401. Research and Outcomes Management for the Practicing Nurse (3).** *Prerequisite: Admission to STEP Program.* Designed to assist students who are practicing nurses to develop knowledge and skills in the research process, to become consumers of research, and to conceptualize the significance of research as the foundation of evidence-based nursing practice.
- 403. Nursing Care of Children and Families (5).** *Prerequisite: Completion of first and second semester upper division courses.* This course presents nursing care of children and families from well-child care through acute & chronic illnesses in a variety of settings from schools, hospitals to specialty areas that focus on early intervention and special needs. The nursing care of children and families centers on understanding growth and development, health promotion, and interventions to maximize optimal health. Lab required.
- 404. Childbearing Families (5).** *Prerequisite: Completion of first and second semester upper division courses.* Clinical course designed to enable the student to practice the various roles assumed by professional nurses in the provision of family centered maternal-infant care. Lab required.
- 422. Foundations of Nursing Leadership (2).** *Prerequisite: Completion of first and second semester upper division courses.* Introduction to concepts of professional leadership and management and their use in the practice setting with a concentration on professionalism. Emphasis is placed on leadership theories, leadership and management styles, time and stress management, burnout, types of communication, conflict strategies and conflict resolution, planned change, decision making, delegation and scope of practice, prioritization, legalities, advocacy, and the significance of diversity and inclusion. The date for change of the course description is up to the curriculum committee.
- 423. Nursing Management and Leadership (3).** *Prerequisite: Assessment into STEP Program for RN students only.* Provides an overview of concepts of professional leadership and management and their use in the practice setting for the practicing nurse. Emphasizes organizational structure, management, professional and leadership issues.
- 424. Adult Health in Secondary, Tertiary, and Community Settings (5).** *Prerequisite: Completion of first, second, and third semester upper division courses.* Enhances and further develops the student's ability and knowledge to care for adults with complex health problems together with their need for sophisticated nursing interventions. Lab required.
- 426. Community Health Across the Lifespan (5).** *Prerequisite: Completion of first, second, and third semester upper division courses.* Enables the student to use an epidemiological approach in coping with health and illness problems of families, aggregates of populations, and communities. Lab required.
- 428. Practicum (6).** *Prerequisite: Completion of first, second, third, and fourth semester upper division courses.* This course focuses on the synthesis and application of previous and concurrent learning in the clinical setting under supervision of course faculty and a clinical preceptor. Additionally, the course is designed to enhance student success on the National Council Licensure Examination (NCLEX). Lab Required.
- 433. Advanced Health Deviations and Clinical Interventions (3).** *Prerequisite: Completion of first and second semester of upper division courses.* Enables students to integrate concepts in pathophysiology, health deviations, nursing interventions, laboratory tests, and pharmacology as these topics relate to populations at risk.
- 442. Transcultural Nursing and Healthcare (3).** Elective in nursing. *Prerequisite: Assessment into STEP Program. For RN students only.* 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.
- 444. Implementation of Professional Nurse Role (3).** *Permission of Instructor Required.* Experience an in-depth analysis of professional nurse role in selected clinical settings. Credit for ROTC Advanced Camp may be given with approval.
- 446. Independent Study (2).** *Prerequisite: Permission of Advisor.* Special project in nursing studies. Pass/fail grade only.
- 447. Independent Study (1).** *Prerequisite: Permission of Advisor.* Special project in nursing studies. Pass/fail grade only.
- 448. Directed Study (3).** Elective in nursing. Offers the student the opportunity to explore specific areas of interest in nursing in either the theoretical and/or clinical arenas. Requires completion of coursework to support the areas of interest.
- 449. Strategies for Academic Success (2).** This course is designed to facilitate academic success in nursing curriculum. Emphasis is placed on academic strategies, which promote attainment of the knowledge, skills and attitudes to facilitate personal and professional achievement of academic goals.
- 455. Transition to Professional Nursing (4).** *Prerequisite: Completion of first, second, third, and fourth semester upper division courses.* Designed to be a capstone course of the baccalaureate nursing program. Emphasis is placed on application of nursing interventions addressing client needs: safe effective care environment (management of care and safety and infection control), health promotion and maintenance, psychosocial integrity, and physiological integrity (basic care and comfort, pharmacological and parenteral therapies, reduction of risk potential, physiological adaptation). Validation of nursing knowledge related to critical thinking, decision making, prioritizing, delegation, problem solving, leadership/management and evaluation is a key component of this course.
- 456. Population-Based Health Care (6).** *Prerequisite: Assessment into STEP Program. For RN students only.* Course designed for the Registered Nurse to apply theoretical concepts related to primary, secondary, and tertiary care of families, aggregates, and populations. Emphasis is on the application of the nursing process and education for at-

risk aggregates. Clinical experiences will be designed to meet the individual learning needs of the Registered Nurse student.

Core Requirement Courses for Upper Division in Nursing (62 Semester Hours)

The following list of courses is not intended to be a substitute for individual advisement by a College of Nursing Academic Advisor.

Area I (6 Semester Hours)

EH 101 English Composition I	(3)
EH 102 English Composition II	(3)

* All students with less than 24 earned hours must take STU 101: First-Year Experience Course.

Area II (12 Semester Hours)

Literature	(3)
Literature	(3)
Fine Art	(3)
EH 141 Oral Communication	(3)

*Minimum of 3 hours of literature required (Select from: EH 201, EH 202, EH 203, EH 204, EH 231, EH 232, EH 219, EH 220), a 6-hour sequence of either literature or history is required. Minimum 3 hours Fine Art required (Select from ART 202, DR 242, MU 233, or FL 101). If student chooses only 3 hours of literature, then history must be a 6 hour sequence and an additional 3 hours of approved Fine Art or Humanities will be necessary.

Area III (11 Semester Hours)

BY 101/103 Intro. Biology I	(4)
CY 115, Concepts of General Chemistry	(4)
MS 112 Precalculus Algebra	(3)

Area IV (12 Semester Hours)

History	(3)
History	(3)
PSY 201 Principles of Psychology	(3)
PSY 222 Human Development	(3)

** Minimum of 3 hours of history required (Select from HY 101, HY 102, HY 201, HY 202), a 6-hour sequence of either literature or history is required. If student chooses only 3 hours of history, then literature must be a 6 hour sequence and an additional 3 hours of approved social/behavioral science will be necessary.

Area V (21 Semester Hours)

BY 263 Anatomy and Physiology I	(4)
BY 264 Anatomy and Physiology II	(4)
BY 283 Health Microbiology	(4)
MS 204 Basic Statistics	(3)
FCS 322 Normal Nutrition	(3)
NU 121 Nursing Ethics	(3)

Upper Division Nursing Courses For Students Beginning Upper Division Fall 2009 and Thereafter (67 Semester Hours)

First Semester (14 Semester Hours)

NU 305 A Bridge to Success	(0)
NU 311 Foundations of Nursing Practice	(6)
NU 306 Pharmacology	(4)
NU 309 Health Assessment	(4)

Second Semester (13 Semester Hours)

NU 325 Adult Health in Secondary and Community Settings	(5)
NU 326 Psychiatric Mental Health Nursing	(5)
NU 322 Health Deviations and Clinical Interventions	(3)

May Semester (3 Semester Hours)

NU 340 Community-Based Care	(3)
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Third Semester (13 Semester Hours)

NU 403 Nursing Care of Children and Families.....	(5)
NU 404 Childbearing Families	(5)
NU 433 Advanced Health Deviations and Clinical Interventions	(3)

Fourth Semester (12 Semester Hours)

NU 424 Adult Health in Secondary, Tertiary & Community Settings	(5)
NU 426 Community Health Across the Lifespan	(5)
NU 422 Nursing Leadership and Health Policy	(2)

Fifth Semester (11 Semester Hours)

NU 428 Practicum	(6)
NU 455 Transition to Professional Nursing	(4)
NU 400 Research and Outcomes Management	(2)

TOTAL 129 Semester Hours

EDUCATIONAL MOBILITY STEP Program RN-BSN

The College of Nursing offers an online educational mobility program. This program is for students who have successfully completed a United States accredited diploma or associate degree nursing program and hold an unencumbered license as a registered nurse in the United States. The Strategic Teaching for Enhanced Professional Preparation (STEP) Program offers upper division nursing courses through the use of Internet and clinical projects. Registered nurses should seek individual advisement to determine a specific educational plan. For more information, please contact Dr. Phyllis Waits, RN, MSN, EdD, Director of STEP Program, College of Nursing at (256) 782-5423, or (800) 231-5291, or e-mail pwaits@jsu.edu. STEP Program information is also available by contacting Ms. Tammy Johnson, BS, MPA, Director of Student Services for the STEP and MSN Programs at (256) 782-8489 or (800) 231-5291 or e-mail at tjohnson@jsu.edu. Eligibility for the STEP program requires completion of all core requirement courses with a Core Requirement Grade Point Average (GPA) of 2.50 or above and a minimum grade of "C" in each core requirement course.

Application Deadlines

August 1st for Fall assessment
December 1st for Spring assessment
April 1st for Summer assessment

REQUIRED NURSING COURSES

The required nursing courses can be completed on-line in three semesters (one calendar year). Completion of the upper division STEP nursing courses must occur in ten (10) semesters. Using Internet, Blackboard, and other distance learning modalities, the program is delivered at a time and place convenient to the individual student. The following courses are required for registered nurses in the STEP program.

Semester I

NU 313 Online Orientation to the STEP Program	0 hrs.
NU 345 Communication of Ethical Issues	4hrs.
NU 352 Health Assessment Across the Lifespan	3 hrs.
NU 365 Pharmacology for Practicing Nurses.....	2 hrs.
	<hr/>
	9 hrs.

STEP recognizes the past academic and experiential knowledge of the Registered Nurse. RN students are awarded 35 hours of *STEP Nursing Credit* after successful completion of the first semester courses.

Semester II

NU 350 Professional Roles and Issues.....	5 hrs.
NU 401 Research/Outcomes Management for the Practicing Nurse	3 hrs.
NU 423 Nursing Management and Leadership.....	3 hrs.
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	11 hrs.

Semester III

Nursing Elective	3 hrs.
NU 343 Concepts of Emergency/Disaster Nursing	3 hrs.
NU 456 Population Based Health Care	6 hrs.
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	12 hrs.

COLLEGE OF NURSING

Bachelor of Science in Respiratory Therapy Accreditation by Commission on Accreditation for Respiratory Care PENDING

Program Director: Paul E. Goodwin
Director of Clinical Education: TBA
Instructors: TBA

Assessment into the Respiratory Therapy program is limited. In addition to meeting the general admission requirements of the university, the applicant must meet the specific requirements and regulations of the Department of Respiratory Therapy. Assessment into the program is based competitively on the factors of demonstrated academic ability, consistency of performance, personal qualifications, including motivation and interpersonal abilities.

Accreditation is currently pending for the professional phase of the program. Students will not be admitted into the professional phase until accreditation is awarded.

Students begin the respiratory therapy program by taking core requirements courses. A separate application is filed to request assessment for the clinical portion (upper division) of respiratory therapy. The department assesses students for eligibility for the upper division once per year. The deadline for submission of application for assessment to the upper division program of respiratory therapy will be posted and announced to students. Those planning to apply for assessment into the upper division respiratory therapy program should contact the Program Director well in advance of the application deadline in order to confirm eligibility.

Entry into the upper division of respiratory therapy requires completion of all core requirement courses with a core requirement Grade Point Average (GPA) of 2.50 or above and a minimum grade of "C" in each core requirement course. If a course is taken more than one time, all grades earned up to and including the first passing grade of "C" or above are used in the calculation of the core requirement GPA. Once a passing grade of "C" or above has been earned in a course, that course cannot be repeated for a higher grade. Students who do not meet the above standards are not eligible to apply for assessment into upper division. Each student's record will be assessed for completion of core requirements and as a basis of approval to enter the upper division. Standardized test scores, such as ACT or SAT, may also be used in the assessment process. The review process may include a personal interview with the candidate, a background check, drug screening, contact with personal references, and, if the student has been enrolled in other respiratory therapy programs, contact with previous program faculty.

COURSE DESCRIPTIONS

Core Requirement Courses for Upper Division in Respiratory Therapy (56 Semester Hours)

The following list of courses is not intended to be a substitute for individual advisement by an academic advisor

Area I (6 Semester Hours)

EH 101 English Composition I	(3)
EH 102 English Composition II	(3)

*All students with less than 24 earned hours must take STU 101: First Year Experience Course.

Area II (12 Semester Hours)

Literature	(3)
Literature	(3)
Fine Art	(3)
EH 141 Oral Communication.....	(3)

*Minimum of 3 hours of literature required (Select from: EH 201, EH 202, EH 203, EH 204, EH 231, EH 232, EH 219, EH 220), a 6-hour sequence of either literature or history is required. Minimum 3 hours Fine Art required (Select from ART 202, DR 242, MU 233, or FL 101). If student chooses only 3 hours of literature, then history must be a 6 hour sequence and an additional 3 hours of approved Fine Art or Humanities will be necessary.

Area III (11 Semester Hours)

BY 101/103 Intro. Biology I.....	(4)
CY 115, Concepts of General Chemistry	(4)
MS 112 Precalculus Algebra	(3)

Area IV (12 Semester Hours)

History I.....	(3)
History II.....	(3)
PSY 201 Principles of Psychology	(3)
SY 221	(3)

** Minimum of 3 hours of history required (Select from HY 101, HY 102, HY 201, HY 202), a 6-hour sequence of either literature or history is required. If student chooses only 3 hours of history, then literature must be a 6 hour sequence and an additional 3 hours of approved social/behavioral science will be necessary.

Area V (15 Semester Hours)

BY 263 Anatomy and Physiology I	(4)
BY 264 Anatomy and Physiology II.....	(4)
BY 283 Health Microbiology	(4)
MS 204 Basic Statistics.....	(3)

Upper Division Respiratory Therapy Courses

Development of upper division respiratory therapy courses is currently underway.

First Semester (12 Semester Hours)

RT 300 Cardiopulmonary A&P	(3)
RT 305 Fundamentals of Respiratory Care I.....	(4)
RT 310 Principles of Patient Assessment	(4)
RT 315 Clinical I.....	(1)

Second Semester (16 Semester Hours)

RT 325 Pulmonary Diagnostics	(3)
RT 330 Fundamentals of Respiratory Care II	(3)
RT 335 Respiratory Care Pharmacology	(3)
RT 340 Pathology for Respiratory Care.....	(3)
RT 345 Clinical II.....	(4)

Third Semester (11 Semester Hours)

RT 400 Ventilatory Support I	(3)
RT 405 Advanced Cardiac Life Support.....	(2)
RT 410 Clinical III	(4)
RT 415 Pediatric Respiratory Care	(2)

Fourth Semester (13 Semester Hours)

RT 420 Ventilatory Support II.....	(3)
RT 425 Adv. Critical Care Monitoring.....	(2)
RT 430 Neonatal Resp. Care.....	(2)
RT 435 Clinical IV	(4)
RT 440 Research	(2)

Fifth Semester (12 Semester Hours)

RT 445 Patient Care Management Strategies.....	(3)
RT 450 Prof. Trends in Long-Term Care	(3)
RT 455 Clinical V	(4)
RT 460 End of Life Issues.....	(1)
RT 470 RRT Exam Review	(1)

TOTAL HOURS REQUIRED FOR DEGREE: 120

DEPARTMENT OF MILITARY SCIENCE AND LEADERSHIP (MSC)

MAIN FLOOR - ROWE HALL

www.rotc.jsu.edu

Professor of Military Science (PMS): LTC Wood

Assistant Professors: Rabold, Robbins
Instructors: Williams, Dunaway

The Department of Military Science is a cooperative venture between the United States Army and Jacksonville State University. The program provides a Reserve Officer Training Corps (ROTC) program with a mission of commissioning students as officers in the Army upon completion of a baccalaureate degree. Satisfactory completion of the program may lead to a minor in Military Science. The program provides students an opportunity to learn and develop leadership skills necessary in the Army and in society. The emphasis of the program is on leadership development. Students are challenged to apply accepted leadership theory to practical situations. A theoretic basis of knowledge is developed through attendance in Military Science classes and courses offered in colleges throughout the University. The program is only available to full-time students.

ENROLLMENT

There are several program options: A four-year, three-year and a two-year program. These programs are addressed below. Under some circumstances, it is possible to complete the program in less than two years. Students can obtain information on alternative programs by contacting the ROTC Department at **256-782-5601**.

The **four-year and three-year programs** are divided into two phases, the Basic Course and the Advanced Course.

Basic: The Basic Course is typically taken during the freshman and sophomore years but may be compressed into one year. These courses are open to all students on an elective basis. The courses, taught to meet the requirements to enter into the Advanced Program, incur NO military obligation and are open to all registered full-time students. Basic Course curriculum focuses on introductory leadership theory, basic military knowledge and skills, and the Army's role in national security policy and practices.

Advanced: The Advanced Course is taken during the junior and senior year of the four-year program. Students in this program must have completed the Basic Course, have two years remaining in college (graduate or undergraduate studies) and enter into a contract with the United States Army to serve as an officer in the active or reserve forces upon graduation. The contractual obligation varies with the amount of participation and whether the student is a scholarship beneficiary.

Advanced Course students take classes in advanced leadership and participate in leadership laboratories where they apply theories of leadership in practical situations. Enrollment in the Advanced Course requires the approval of the Professor of Military Science.

The **two-year program** is designed for students who did not take Army ROTC during their first two years of college and for students entering or progressing in a two-year post-graduate course of study. Students can qualify for the Advanced Course in a number of ways. Prior enlisted personnel and members of the National Guard and Army Reserve receive Basic Course credit for successful completion of Basic Training. Successful completion of the four-week ROTC Leader Training Course also qualifies students for the Advanced Course. The Professor of Military Science may also award Basic Course credit for satisfactory participation in Junior ROTC or for completion of an approved alternative course of study within the Department of Military Science.

Students must meet the following requirements in order to attend the Leader Training Course: Overall GPA of 2.0 or higher on a 4-point scale, have junior standing and meet medical and physical fitness standards. Approval for attendance is required from the Professor of Military Science.

BASIC COURSE REQUIREMENTS

The Basic Course consists of MSC 101, 103, 102, 104, 201, 203, 202, and 204. These courses are mandatory for entry into the Advanced Course of instruction, unless the Professor of Military Science approves substitutions.

Nursing students who desire to pursue a career as commissioned officers in the Army Nurse Corps should contact the Department of Military Science for details of a basic course program specifically tailored for the nursing discipline. In addition to meeting all ROTC requirements, the prerequisites for commissioning in the Army Nurse Corps are a baccalaureate degree in nursing and a state nursing license.

ADVANCED COURSE REQUIREMENTS

Entry into the ROTC Advanced Course for commissioning is open to students who have earned a GPA of 2.0 or higher, who have attained junior status or are graduate students, who meet established Army medical and physical fitness standards, who have completed the Basic Course requirements as noted above or received placement credit for such, who demonstrate the requisite leadership potential, and who have departmental approval. Students pursuing a commission must successfully complete the following ROTC Advanced Course classes: MSC 301, 307, 302, 308, 303, 305,

401, 407, 402, and 408. Additionally, HY 304 and approved core curriculum courses in written communications, computer literacy, math reasoning and human behavior must be successfully completed before commissioning. Contact the Department of Military Science for specific details as to approved courses. Normally during the summer before their senior year, students must attend and successfully complete the Leader Development & Assessment Course (LDAC). This course is approximately five weeks in duration and students earn 3 credit hours under MSC 305.

ROTC Nursing students have an additional opportunity to participate in a three week Nurse Summer Training Program and earn 3 credit hours under NU 444.

ADDITIONAL REQUIREMENTS

All contracted students are required to maintain eligibility requirements. These requirements include an appropriate grade point average, medical qualification, moral behavior, and compliance with physical fitness standards. Additionally, contracted students must participate in physical conditioning and a field training exercise each semester.

COMMISSIONING

Students may be commissioned once they meet all pre-commissioning requirements and are awarded a baccalaureate degree. Students commissioned as Second Lieutenants in the United States Army may serve either on Active Duty, in the Army Reserve, or in the Army National Guard. Assignments are based upon the needs of the Army and the student's request. Students who desire a commission in the Army Reserve or Army National Guard may elect the Guaranteed Reserve Forces Duty option (if eligible) upon entry into the advanced course.

SCHOLARSHIPS

Competitive two, three and four-year scholarships are available to students. Four-year scholarship deadlines are normally December 1 of the student's senior year in high school. Other scholarship deadlines vary from year to year. Currently, scholarships cover the cost of tuition, fees, partial books and provide a monthly spending allowance. Limited dorm scholarships are also available. The Army National Guard and Army Reserve also offer tuition assistance and other benefits worth up to \$24,000 per year in conjunction with ROTC. Students interested in scholarships, the simultaneous membership program (SMP) with the Guard or Reserve, or other assistance should contact the Department of Military Science at 256-782-5601 for details.

DESCRIPTION OF COURSES

- 101, 102. Challenges in Leadership (1) (1).** *Prerequisite to all other military science courses unless exemption is approved by the PMS.* Courses provide an introduction to leadership, character development, military operations and skills, and the Army's continually changing role in the world. Course goals are accomplished through lecture, field trips, guest speakers and films. MSC 103, 104 labs are required in conjunction with these classes.
- 103, 104. Challenges in Leadership Labs (2) (2).** *Required to be taken respectively in conjunction with 101 and 102.* Students will demonstrate knowledge of subjects taught in lecture and additional topics taught in the lab through hands-on training. Emphasis is on developing leadership skills, physical fitness, and military knowledge. Students participate in physical fitness activities a minimum of one hour each week to learn the fundamentals of exercise and gain aerobic and muscular fitness.
- 112. Basic Marksmanship (2).** Fundamentals, principles, and techniques of marksmanship including equipment, maintenance, shooting position, safety, and range operation. Students fire marksmanship rifles.
- 113.** Survival (3).** Examines options available in outdoor environments for survival. Students appraise and prioritize their physical and emotional needs incorporating Maslow's hierarchy. Demonstration of outdoor skills including rope bridges, orienteering, and employment of game trapping methods.
- 115.** First Aid (3).** Instruction in lifesaving measures for clearing the airway, rescue breathing, cardiopulmonary resuscitation, controlling bleeding, preventing shock, treating fractures and emergency care for other serious injuries. Prevention of illness and injuries is emphasized.
- 201. Leadership Development (1).** Students learn proven leadership techniques and develop their own working leadership philosophy and style. Prepares students for future leadership roles. MSC 203 is required in conjunction with this class.
- 202. Basic Military Skills (1).** Emphasis is on refining leader skills, oral communication, and military skills including map reading, orienteering, and small unit tactics. Prepares students for the advanced military science course. MSC 204 is required in conjunction with this class.
- 203, 204. Basic Military Skills Labs (2) (2).** *Required in conjunction with MSC 201 and MSC 202 respectively.* Students demonstrate knowledge of subjects taught in lecture through hands-on experience. Emphasis is on developing leader and military skills, and enhancing military knowledge. Students participate in physical fitness activities a minimum of two hours each week to learn the fundamentals of exercise and gain aerobic and muscular fitness. MSC 201, 202 required.
- 205. Leaders Training Course (3).** *Prerequisites: Pass a standard medical physical; take the Army Physical Fitness Test, permission of the Professor of Military Science.* Students travel to Fort Knox, Kentucky, to attend a four-week course designed for those who wish to enter MSC 301 but did not participate in 100 and 200-level Military Science classes. The course provides an introduction to the Army, as well as an introduction to leadership theory and techniques.

Students apply leadership theory in a hands-on environment. Students participate in Rappelling, Water Survival, Basic Marksmanship, and in a Leader's Reaction Course where small teams solve challenging problems in a field environment. All travel, lodging, and meal costs are paid for by the Department of the Army. No fee.

- 300. Leaders Training Course Preparation (1).** Prepares students for attendance at the Army ROTC Leaders Training Course. Emphasis is on leadership training, basic military skills and physical fitness.
- 301. Advanced Military Science (3).** *Prerequisites: MSC 101, 102, 201, 202 or successful completion of the Leader Training Course, Army Basic Training, or a prescribed course of study approved by the Professor of Military Science.* Builds on previous leadership courses by introducing advanced theories and applying previous learning during practical class-room and field training exercises. Emphasis is on problem solving and learning how to motivate self and others as well as small unit leadership techniques and military small unit tactics. Students learn how to evaluate/analyze military missions and plan and prepare orders for military operations. Students must participate in a two-day field training exercise during the semester. MSC 307 is required in conjunction with this course.
- 302. Advanced Military Science (3).** *Prerequisite: MSC 301.* Reinforces dimensions of leadership taught in MSC 301 and addresses additional dimensions. Students study group dynamics, adult learning, personality models, and ethical decision making. Students refine oral communication skills and prepare and deliver information briefings. Students must participate in a three-day field training exercise during the semester. MSC 308 is required in conjunction with this class.
- 303. Advanced Military Science (3).** *May-term class emphasizes and refines all MSC 301 and 302 skills.* Students enhance land navigation/orienteering, rifle marksmanship, communications and physical training skills and abilities. Students practice planning and executing small unit operations and lead their peers in small unit operations. Students participate in a major field training exercise. Course is mandatory for all students attending LDAC during the summer terms.
- 304. Military History (3).** *Prerequisites: Enrolled Military Science Cadet and Approval of the Professor of Military Science.* The evolution of warfare and the military concentration primarily on leadership and the American military experience. Required for commissioning; see HY 304 for a course description.
- 305. Advanced Military Science (3).** *Prerequisites: MSC 301, 302, 303 and/or the permission of the Professor of Military Science.* Students fly to Fort Lewis, Washington to attend LDAC. During the five-week course, a student's basic military, organizational, communications, and leadership skills are evaluated as they interact with ROTC cadets from colleges and universities across the nation. Travel and living expenses are paid by the Department of the Army. No fee.
- 307, 308. Advanced Military Science Leadership Lab (2) (2).** Students learn small unit military tactics/operations. Students apply theory taught in MSC 301 and 302 while leading their peers in small unit operations. Students learn planning skills and are evaluated in their ability to plan activities and organize their peers to execute the events. Oral and written communication skills are stressed and evaluated. Students participate in physical fitness activities three hours each week to gain aerobic and muscular fitness. Lab is focused on preparation for the Leader Development & Assessment Course (LDAC). MSC 301, 302 required.
- 401. Advanced Theories in Leadership (3).** An examination of advanced leadership theory. In depth analysis of professionalism, ethical decision making, learning in organizations, the role of communications, and hierarchical staff functions. MSC 407 is required in conjunction with this class. *Approval of the Professor of Military Science is required.*
- 402. Advanced Theories in Leadership (3).** Course provides in-depth analysis of the role of law in the conduct of Army operations, personnel management, logistics management, and applied doctrine. MSC 408 is required in conjunction with this class. Approval of the Professor of Military Science is required.
- 403. Seminar on Leadership (3).** A directed study of various themes in leadership theory. Application of leadership theory, problem solving, decision-making, risk-analysis and communicative skills to selected topics. Student are required to conduct an oral presentation of their selected theme. Course includes intern work, where the student acts as an assistant to a member of the staff. *Approval of the Professor of Military Science is required.*
- 407, 408. Application of Advanced Theories in Leadership (2)(2).** Application of Leadership Theory in the organizational setting. Consists of role playing, problem solving, decision making, and application using practical situations. *Approval of the Professor of Military Science is required.*

** indicates a course which fully or partially fulfills wellness requirements.

Uniforms and Equipment

For all military specific courses, uniforms, most texts, and certain equipment are furnished by the United States Government at no expense to the student. Uniforms and equipment issued to cadets remain the property of the United States Government and will be turned in upon withdrawal from any MSC course or upon completion of the course. Certain equipment will be turned in upon completion of the specific training event. Students will be required to reimburse the government for losses or damage. For certain basic courses which are not military specific, purchase of texts may be required.

MINOR: MILITARY SCIENCE

A minor in Military Science is offered by completing 26 hours of course work as follows:

MSC 301, 307, 302, 308, 401, 407, 402, 408	20 hours
HY 304 or MSC 304.....	3 hours
MSC 305	3 hours
Total Hours Required	<u>26 hours</u>

COOPERATIVE EDUCATION PROGRAM

Cooperative Education is a structured educational strategy integrating classroom studies with learning through productive paid work experiences in a field related to the student's academic or career goals. It provides progressive experiences in integrating theory and practice. Co-Op brings together the university, the business and professional community, and students in a collaborative effort with specified responsibilities for each party. Academic credit is not awarded for participation in the Cooperative Education Program. A pass/ fail notation is entered on the transcript upon completion of the semester's work experience.

In order to qualify for Cooperative Education, a student must meet the following qualifications:

1. The student must satisfactorily complete a minimum of 24 semester hours prior to entering the program. Employers may suggest a lower minimum hour requirement.
2. The student must meet and maintain a 2.5 (4.0 scale) Grade Point Average. Employers may establish higher GPA requirements.
3. The student must have the recommendation of two professors and a completed file in the Career Services Office. To apply for the Cooperative Education program, contact the Career Services Office at 256-782-5482 or visit www.jsu.edu/careerservices. Upon approval of the Cooperative Education Coordinator and the employer, the student will register for the following alternating or parallel cooperative education courses.

CEA-001 Through 012. Alternating Co-Op Education (0 hrs.) Cooperative Education experience of full-time employment (approximately 40 hrs./week) is equivalent to full-time student status, with the exception of financial aid. (Contact Financial Aid for additional information).

CEP-001 Through 012. Parallel Co-Op Education (0 hrs.) Cooperative Education experience of part-time employment (15-30 hrs./week) in an approved Co-Op position while enrolled in a minimum of 6 semester hours.

STUDENT AFFAIRS (STU)

102 Bibb Graves Hall

Associate Vice President for Student Affairs:
Timothy B. King

The Division of Student Affairs offers seven elective courses aimed at leadership and career development. Students have an opportunity to apply for participation in the Peer Educators Program and GO Leaders Program for leadership development. All students are eligible to take career development courses.

STU 101: First Year Experience Course (0). All students with less than 24 earned hours must take STU 101: First-Year Experience Course. Students will achieve course objectives related to their overall adjustment to being a successful student at JSU. Topics discussed include how to: declare a major and develop a relationship with an academic advisor; understand components of MyJSU; know and understand JSU policies; participate in the summer reading program; learn and become active in JSU activities for students; understand and develop appropriate behavior for a college student; become familiar with student services; and acquire knowledge and skills necessary to prosper as a JSU student..

STU 120. Career Planning (1). Individualized instruction in self-analysis of abilities, achievements, and interests to develop career goals and plans. Various career opportunities will also be explored.

STU 210. Resident Assistant Seminar (2). Seminar for resident hall assistants providing experience in developing community, working with college students, and understanding the purpose and scope of residence halls

STU 211. Leadership House for Women Seminar I (1). This course combines academics with outside-of-the-classroom learning. Students will live together and evaluate leadership and personal development. The course will incorporate readings, in-class and online discussions, service learning, group work, simulations, critical reflections, and lectures to expose students to a wide range of leadership concepts and models. Students will examine leadership on three levels: self- leadership, collaborative leadership, and leadership for change within the community. Over the course of the semester, each student will develop their philosophy of leadership and engage in the practice of socially responsible leadership.

STU 212 Leadership House for Women Seminar II (1). This course combines academics with outside-of-the-classroom learning. Students will live together and evaluate leadership and personal development. The course will incorporate readings, in-class and online discussions, service learning, group work, simulations, critical reflections, and lectures to expose students to a wide range of leadership concepts and models. Students will examine leadership on three levels: self- leadership, collaborative leadership, and leadership for change within the community. Over the course of the semester, each student will develop their philosophy of leadership and engage in the practice of socially responsible leadership.

STU 304. Para Professional Training (3). This course includes the choice of one of two training modules. One option involves training for students serving as peer educators in tutoring or assisting other students with life adjustment issues such as drug and alcohol abuse and sexual harassment. The second option involves training for students serving as orientation peer counselors in knowledge of self, campus, orientation consumers, listening skills, public speaking, and decision making

STU 306. Advanced Para Professional Training (3). This course includes the option of one of two training modules. The first option involves advanced training for students serving as peer educators in tutoring or assisting other students with life adjustment issues such as drug and alcohol abuse and sexual harassment. The second option involves advanced training for students serving orientation leaders. Gives students opportunity to enhance leadership, organizational, and human relations skills through supervisory responsibilities.

STU 310. Career Linkages (2). Instruction is designed to increase student awareness and understanding of self-expression using career activities, recognizing individual differences and the importance of each in collaboration, personal and career exploratory activities. This course is centered on the career decision process appropriate to programs offered at the university and should be considered by students who have not decided on a major.

STU 320. Employability Skills (1). Individualized instruction using a positive culture to cultivate leaders in the job search process; increasing awareness of professionalism in the workforce by developing problem solving in context, applying knowledge in practical ways through attending job fairs; developing personal autonomy and empowerment, composing and producing comprehensive writing of professional level correspondence, and enhancing job readiness for virtual and face-to-face interviews.

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FREDDY MEDEROS	Coordinator, LRC Conservation and Facilities
LISA SMUKALLA	Secretary, History and Foreign Languages
LORI OWENS	Director, Honors Program
JANET WHITMORE	Coordinator, Honors Program
CASEY MOONEY	Secretary, Honors Program
COURTNEY PEPPERS-OWEN	Director, Learning Services
CINDY FOSTER	Secretary, Learning Services
CARRIE KIRK	Coordinator, Academic Readiness and Behavioral Services, Learning Services
PETRICIA TRIFAS	Scientific Lab Technician, Mathematical, Computing and Information Sciences
BRANDY ROBERTS	Secretary, Mathematical, Computing and Information Sciences
CAROL KORNEGAY	Clerical Assistant, Mathematical, Computing and Information Sciences
KEN BODIFORD	Director of Bands, Music
KIMBERLY COOPER	Secretary, Music
SANDRA LYNCH	Secretary, Band
TRACY CASEY	Secretary, Physical and Earth Sciences
BERNICE GEORGE	Scientific Lab Technician, Physical and Earth Sciences
CHRISTIE CRIDER	Secretary, Political Science and Public Administration
ANNETTE CARTER	Secretary, Psychology
LISA PUGLIESE	Secretary, Sociology and Social Work
TBA	Clerical Assistant, Sociology and Social Work

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

WILLIAM FIELDING	Dean, College of Commerce and Business Administration
LOUISE J. CLARK	Associate Dean, College of Commerce and Business Administration
KELLY ROBERTS	Secretary to the Dean
PAM McGHEE	Secretary to the Associate Dean
RACHEL HAAS	Certification Advisor
TAWANA ROBERTS	Clerical Assistant, Dean's Office
AMY VAUGHN	Secretary, Management/Marketing
PAM POPE	Secretary, Finance, Economics and Accounting
WILLIAM FIELDING	Acting Director, Center for Economic Development and Small Business Development Center
JUDY PORTER	Secretary to the Director
AMY ANDERSON	Account Executive
JENNIFER SWAFFORD	Program Coordinator, Center for Economic Development
ANNA A. FANG	Bookkeeper/Assistant
JEFFREY HOOIE	Research Analyst
DAVID MICHAEL SELF	Research Analyst
JOSEPH GRIMES	Account Executive
KENNETH GRISSOM	Government Procurement Specialist

COLLEGE OF EDUCATION AND PROFESSIONAL STUDIES

JOHN HAMMETT	Dean, College of Education and Professional Studies
TOMMY TURNER	Associate Dean, College of Education and Professional Studies
MARTHA DINGLER	Secretary to the Dean
DEANNA BOHANNON	Secretary to the Associate Dean
BROOKLYN MILES	Secretary, Secondary Education

BRENDA CLINE	Teacher's Aide, Child Center
SUZANNE DONALDSON	Secretary, Educational Resources
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TABITHA MIZE	Secretary, Communication
LYNN STEWARD	Secretary, Family and Consumer Sciences
LISA LIGHT	Director, Clinical Experiences
BRANDY RUSSELL	Assistant Director, Clinical Experiences
CHRISTI RICKSON	Clerical Assistant, Clinical Experiences
PAM JUMPER	Secretary, Health, Physical Education and Recreation
CARL M. ZENANKO	Director, Instructional Services Unit
PENNY LANE	Secretary to the Director
TIM WHITTEMORE	Coordinator, Teaching/Learning Center
LISA LIGHT	Director, Teacher Education Services
KAY COGER	Secretary to the Director
KELLY MURRAY	Certification Advisor
VICKIE TRAMMELL	Certification Advisor
MIKE HATHCOCK	Director, TV Services and Engineering
STEPHANIE MORGAN	Secretary to the Director
BOBBY MIKEL	TV Production Assistant
STEVE KINES	TV Production Assistant
KEITH THOMAS	Coordinator, TV Production
TED WHITE	Assistant Engineer
ERIC LEE	Director, In-Service Education
TANYA BARNES	Project Administrator AMSTI
BARRY COOPER	Supervisor, AMSTI Materials
POLLY CROW	Science Specialist K-5
JANIS SIDES	Supervisor, In-Service Education Materials
MELANIE GRIFFIS	Math Specialist 9-12
TARA HOOD	Science Specialist K-5, AMSTI
KAY JOHNSON	Science Specialist K-8, AMSTI
SHELLEY ROBERTS	Science Specialist 6-8 AMSTI
TERRY MADDOX	Maintenance Inventory Clerk II
KELLYE McDOWELL	Science-in-Motion Specialist
KRYSTAL MILAM	Science-in-Motion Specialist
JAMES MORGAN	Science-in-Motion Specialist
KELLY ROPER	Math Specialist K-8, AMSTI
CHERIE PRICKETT	Science-in-Motion Specialist
JASON SCOGIN	Assistant to Supervisor, AMSTI Materials
LYNN SHADDIX	Bookkeeper
LESLIE CRUSE	Program Coordinator
AMBER THRANTHAM	Math Specialist K-8, AMSTI
CYRUS WAGNER	Maintenance Inventory Clerk II

GRADUATE STUDIES

JEAN PUGLIESE	Associate Dean, College of Graduate Studies
DENISE DAVIS	Secretary to the Deans
ASHLEE HANVEY	Graduate Admissions Secretary
KIMBERLY MEGILL	Graduate Admissions Clerical
LaRILDA VanSANDT	Certification Advisor
JULIE MADDOX	Certification Advisor

COLLEGE OF NURSING

CHRISTIE SHELTON	Dean, College of Nursing
ELIZABETH GULLEDGE	Associate Dean, College of Nursing
LINDA PRICKETT	Secretary to the Dean
CYNTHIA TUBBS	Clinical Associate
PATRICIA NELSON	Secretary
RAINER HASPEL CLEMENTS	Instructional Media Specialist

KRISTINA KILLINGSWORTH..... *Director, Student Services/Nursing*
 AMBER LAW *Director, Clinical Services*
 LEAH STUART *Secretary*
 CARLA WILLINGHAM *Secretary to Associate Dean*
 TAMATHA JOHNSON *Director, Student Services/Nursing*

ADMISSIONS

ANDREW GREEN *Director of Enrollment Management*
 TBA *Assistant Director*
 TRACY PHILLIPS *Coordinator of Campus Experience*
 PAM TORRUELLA *Secretary to the Director*
 SHELLEY KALER *Admissions Counselor*
 LAUREN THOMAS *Admissions Counselor*
 JADE WAGNER..... *Admissions Counselor*
 JENNIFER WOOD *Admissions Counselor*
 LISA BEDFORD *Clerical Assistant*
 TAMARA CHASTAIN *Clerical Assistant*
 SANDRA FORD *Clerical Assistant*
 CHRISTY MOBBS *Clerical Assistant*
 ALICE ABERNATHY *Coordinator of CORE Scholars*
 NATALIE HOLT *CORE, Specialist*
 VICKY SIMPSON *CORE, Specialist*

CONTINUING EDUCATION

BELINDA BLACKBURN *Director, Continuing Education*
 JOHN ABBOTT..... *Marketing Specialist*
 KELLY BEEGLE *Program Coordinator*
 LYNNE NABORS *Program Coordinator*

COUNSELING AND DISABILITY SUPPORT SERVICES

JULIE NIX *Director, Counseling and Disability Support Services*
 NORMA PENNY *Secretary to the Director*
 LEONARD McCAULEY *Counselor*
 MARY CLARK *Coordinator, Testing*
 LINDA SHELTON *Counselor*
 DEBBIE BUZAN *Bookkeeper*
 CYNTHIA CAMP *Personnel Development Specialist*
 CATHERINE GOODGAME *Senior Disability Specialist*
 ASHLEY DORSETT *Case Manager*
 JENNIFER YOCUM *Coordinator, Deaf/Hard of Hearing Services*

TEACHING, LEARNING, & TECHNOLOGY

JOE WALSH *Associate Vice President, Teaching, Learning, & Technology*
 GINA GLASS *Secretary to the Associate Vice President*
 MARK CAMP *Educational Technologist*
 CHRIS CASEY *Learning Management System Administrator*
 CHRIS INMAN *Educational Technologist*
 KEVIN MOBBS..... *Instructional Designer*
 HUNGWEI TSENG *Instructional Designer*
 JACQUI CALLENDER..... *Secretary*

HOUSTON COLE LIBRARY

JOHN-BAUER GRAHAM *Dean, Library Services*
 ALISHA HENSON *Secretary to the Dean, Library Services*
 SUSAN WIGGINS *Library Technical Assistant*
 WILLIAM BATCHELOR *Circulation Assistant*
 TOBY FALK *Circulation Assistant*
 NOAH CLEVELAND *Library Technical Assistant*

DELORES COLLIER	Library Technical Assistant
DEBRA DEERING-BARRETT	Supervisor, Library User Services
DEBRA FRAGOSO	Library Technical Assistant
ZACKERY THIRD	Circulation Assistant
POLLY GOWENS	Library Technical Assistant
TONY GRAVETTE	Director, Instructional Media Services
JAN T. McCORMICK	Secretary
ALICIA CANTRELL	Library Technical Assistant
TIFFANY ONKST	Circulation Assistant
TERRE KING	Circulation Assistant
MICHAEL WALKER	Audio Visual Technician
YOLANDA COX	Library Technical Assistant
JOSEPH DUKE	Data Communication Network Specialist

INTERNATIONAL HOUSE

CHANDNI KHADKA.....	Director, International House
TONNA HAMMETT	Secretary to the Director
ELLEN MCNEELEY	Social Director
JEFF CLARK	International Program Assistant

JACKSONVILLE STATE UNIVERSITY, GADSDEN

RALPH BURKE.....	Director, JSU-Gadsden
DEBORAH HOOD	Secretary to the Director

JACKSONVILLE STATE UNIVERSITY, McCLELLAN

BELINDA BLACKBURN	Building Manager
MARSHA WHITAKER	Secretary to the Director

LEARNING SERVICES

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CINDY FOSTER.....	Secretary to the Director
CARRIE KIRK	Coordinator of Academic Readiness and Behavioral Services

UNIVERSITY RECREATION

MARK JONES	Director, University Recreation
ERIC BRASHER	Assistant Director, University Recreation
HUNTER ALLEN	Coordinator, Intramural Programs
KEN WASHINGTON	Coordinator, Fitness
ROSHARD CARGILL	Coordinator, Recreational Facilities

REGISTRAR'S OFFICE

EMILY WHITE	Registrar
TORI GADDY	Assistant Registrar
BEVERLY BARNWELL	Coordinator, Academic Records
STACEY CHARPING	Coordinator, Commencement
COURTNEY DRUBE	Coordinator, Enrollment Services
REGINA GREEN	Secretary
MICHELE HUGHES	Coordinator, Transfer Evaluation
K. AMANDA WADE	Coordinator, Transfer Evaluation

R.O.T.C.

LTC DAVID C. WOOD	Professor of Military Science / MS IV Instructor
CPT JOY E. RABOLD	MS I Instructor/Logistics
CPT TIMOTHY J. ROBBINS.....	MS III Instructor/Operations
MSG DAVID D. WILLIAMS	Senior Military Instructor/MS III Instructor
SFC CHARLES J. DUNAWAY	MS II Instructor / Operations/Training NCO
SFC RICKY JENKINS	National Guard Recruiter/BRM Instructor
ELLEN HARTSAW	Human Resources Technician

STUDENT FINANCIAL SERVICES

TBA	Director, Student Financial Services
STEPHANIE MILLER	Interim Director, Student Financial Services
TBA	Assistant Director, Scholarships and Veterans Affairs
BONNIE TAYLOR	Financial Aid Officer
APRIL GRIFFIN	Senior Student Financial Services Counselor
LAKISCHA BROWN	Student Financial Services Counselor
MARIAN BRYANT	Secretary
DONNA TUCKER	Loan Grant Processor
MONTIA TURNER	Clerical Assistant
ASHLEY FIGUEROA-RIVERA.....	Veterans Affairs Specialist
TBA	Clerical Assistant

STUDENT LIFE

TERRY CASEY	Director, Student Life
KRISTEN SMITH	Assistant Director, Student Life-Fraternity and Sorority Life
DEBBIE TAYLOR	Assistant Director, Student Life-Multicultural Programming
SUSAN ADDERHOLD	Secretary to the Director

UNIVERSITY HOUSING

TBA	Director, University Housing
ROCHELLE SMITH	Interim Director, University Housing
BROOKE LYON	Assistant Director, University Housing
TYRONE SMILEY	Assistant Director, University Housing
CHARISSA DAVIS	Secretary to the Director
TRAVIS SMITH	Residence Life Coordinator, Apartments
LEMARQUES McCLIDE	Residence Life Coordinator, Crow & Dixon Halls
PEGGY BYRNE	Residence Life Coordinator, Curtiss & Fitzpatrick Halls
ALLISON McINNIS	Residence Life Coordinator, Daugeette & Sparkman Halls
SHANNON COLEMAN.....	Residence Life Coordinator, Logan & Patterson Halls
CANDICE YOUNG	Residence Life Coordinator, Stadium Tower
CHARLOTTE HOMESLEY	Clerical Assistant
AMIE KNIGHT	Clerical Assistant
CANDICE VICE	Clerical Assistant
TBA	Program Coordinator

UNIVERSITY POLICE

SHAWN GIDDY	Director, Public Safety
KAREN BATES	Secretary to the Director
BRIAN MANN	Police Sergeant
CARL PREUNINGER	Police Sergeant
ROBERT SCHAFFER	Police Sergeant
RICKEY GAITHER	Corporal
BRANDON SINGLETON.....	Corporal
JERRY PERKINS	Corporal
MICHAEL DEVOE	Police Officer
BRIAN GAY.....	Police Officer
EATHAN HEARD	Police Officer
MATHEW LANGLEY	Police Officer
ELIZABETH MORROW	Police Officer
DONYALE RICHARD	Police Officer
ASHLEY ROPER	Police Officer
MICHELLE PAGE	Safety/Security Supervisor
BUDDY SMITH	Parking Enforcement
JASON SUMNER.....	Clerical Assistant
MELONIE CARMICHAEL.....	Emergency Management Specialist

ADMINISTRATIVE AND BUSINESS AFFAIRS

ASHOK ROY Vice President for Administrative and Business Affairs
LU MOSELEY Executive Secretary

CONTROLLER

KEVIN MCFRY Controller
JENNIFER EVANS Secretary to the Controller
TBA Assistant Controller
ROBIN YARBROUGH Restricted Funds Manager
MARY WATKINS Accountant
DENISE HUNT Disbursements Manager
LORI STEPHENSON Payroll Accountant
LAURA PRUITT Payroll Clerk
DANA BONDS Accounts Payable Clerk
DELISSA COBB Accounts Payable Clerk
ELIZABETH BONDS Clerical Assistant
ALICE WUDARCZYK Bursar
STEPHANIE CROSSON Assistant Bursar
TINA TRUSSELL Secretary
TONYA WILLIAMS Head Cashier
AMANDA CASH Clerical Assistant
TONYA NEW Collections Clerk
STACEY BURELL Clerical Assistant
MANDI MILLER Clerical Assistant
SHAWNA BEADLES Clerical Assistant

HUMAN RESOURCES

HEIDI LOUISY Executive Director, Human Resources
KaSANDRA RUSSAW Manager, Benefits Admin and Records Mgt.
TAMMY HOWELL Recruitment and Compensation Admin.
ELANIA GARRETT HR Representative
JIM HERRING HR Generalist
MORGAN WATKINS HR Assistant
JAI INGRAHAM Chief Diversity Officer

INSTITUTIONAL SUPPORT SERVICES

JOE WHITMORE Director
TWYLA HOBBS Secretary to the Director
RANDALL STEVENS Bookstore Manager (Barnes & Noble)
SCOTT WILLIAMS Food Service Manager (Sodexo)
ERIC FRAILEY Mail Center Manager (Ricoh)

PHYSICAL PLANT

DAVID THOMPSON Director, Physical Plant
VACANT Assistant Director, Physical Plant
KAREN POLLARD Secretary
SEAZON TIERCE Secretary
O'DELL CHRISTOPHER Supervisor, Housing & General Maintenance
TYLER LAW Superintendent, Athletic Fields & Grounds
MARK STEWARD Supervisor, Air Conditioning and Heating
DOUG PHILLIPS Supervisor, Building Services
JEFF CASH Housekeeper Supervisor
BRENDA MEASLES Housekeeper Supervisor
VICKIE BORRELL Housekeeper Supervisor
BARBARA KIMBERLY Housekeeper Supervisor
WILLIAM JOHNSON Housekeeper Supervisor

PROCUREMENT AND FIXED ASSETS

PAMELA FINDLEY Director, Procurement & Fixed Assets

SHELIA KIKER Secretary to the Director
 MIKE STEWARD Manager, Property & Assets

ATHLETICS

GREG SEITZ Director of Athletics
 LORI McFALL Secretary to the Director of Athletics
 GREG BONDS Senior Associate Director, Internal Affairs/Athletics
 JAN EVANS Coordinator Athletic Ticket Sales/Special Projects
 BRIAN SCOTT AUSTIN Strength and Conditioning Coach
 MISTY CASSELL RAY Assistant Director, Athletics, Compliance
 HUNTER WALDRON Coordinator, Athletics, Compliance
 TRACY BROOM Assistant Director, Athletics, Academics/Senior Woman Administrator
 TBA Athletic Academic Advisor
 TBA Assistant Athletic Trainer
 STEPHANIE MAGEE Assistant Athletic Trainer
 JENNY WILMES Assistant Athletic Trainer
 CHRIS LACASAMANA Associate Director, Athletics, Sports Medicine
 MIKE PARRIS Assistant Director, Athletics Broadcasting
 DONNA CALLAN Manager, Athletic Marketing & Promotions
 MIKE DAVIS Athletic Academic Advisor
 JOSH UNDERWOOD Sports Information Specialist
 TONY SCHMIDT Sports Information Specialist
 JIM CASE Head Baseball Coach
 GAVIN HALFORD Assistant Coach, Strength & Conditioning
 ED LETT Director, Athletic Fundraising
 EVAN BUSH Assistant Baseball Coach
 MIKE MURPHREE Assistant Baseball Coach
 RAY HARPER Head Men's Basketball Coach
 KAY GRIFFIN Coliseum Sports Secretary
 CHASE RICHARDSON Assistant Men's Basketball Coach
 TBA Assistant Men's Basketball Coach
 RICK PIETRI Head Women's Basketball Coach
 ERIC WISE Assistant Women's Basketball Coach
 ALTHERIAS WARMLEY Assistant Women's Basketball Coach
 ERYC PITTMAN Assistant Women's Basketball Coach
 JOHN GRASS Head Football Coach
 TODD BATES Assistant Football Coach
 DAVID BLACKWELL Assistant Football Coach
 JIMMY OGLE Assistant Football Coach
 NICK GENTRY Assistant Football Coach
 BRANDON HALL Assistant Football Coach
 JR SANDLIN Assistant Football Coach
 KEVIN REVIS Assistant Football Coach
 NICK WILLIAMS Assistant Football Coach
 CODY WELLS Assistant Football Coach
 OWEN KILGORE Assistant Football Coach
 JAMES HOBBS Head Golf Coach
 LUZ ARMIJO FERNANDEZ Assistant Golf Coach
 RON FROST Rifle Team Coach
 NEIL MACDONALD Head Women's Soccer Coach
 NICOLA BROWN Assistant Women's Soccer Coach
 JANA B. MCGINNIS Head Women's Softball Coach
 MARK WISENER Assistant Women's Softball Coach
 JULIE BOLAND Assistant Women's Softball Coach
 ANDRES AMORES Head Tennis Coach
 ROBERT KJELLBERG Assistant Tennis Coach
 STEVE RAY Head Track/Cross Country Coach
 BRIAN KORN Assistant Track/Cross Country Coach
 TERRY GAMBLE Head Women's Volleyball Coach

LEIGH BAREA Assistant Women's Volleyball Coach

INFORMATION TECHNOLOGY

VINSON HOUSTON Vice President, Information Technology
VENITA TONEY Executive Secretary
SEAN PONDER Director of User, Security and System Support
MATTHEW McFALL Network Engineer
THOMAS ALLRED Senior IT Support Analyst
CHRIS CHEATWOOD Systems Analyst
NEIL JOHNSON Network Applications Engineer
MARK MATTHEWS Director, University Telecommunications
CHRIS NEWSOME Webmaster
PAULA SMITH Senior IT Acquisitions Support Analyst
BRANDON STEWARD Senior Systems Administrator
JIMMY SURRETT Senior Systems Administrator
DAPHANE UESRY Senior IT Support Analyst
GLENN DAVENPORT Microcomputer Consultant/Programmer
ALAN WALLACE Director, Administrative Computing and Systems Support
SHAUN STANCIL Systems Specialist
GENA CRONAN Systems Analyst
KRISTIN JOHNSON Senior Systems Analyst
GREG NABORS Senior Database Administrator
MARILYN O'DONNELL Systems Analyst
CANDICE TRUITT Computer Programmer
MICHAEL SANDERS IT Support Analyst
ANDREW HIGGINS IT Support Specialist
BETTY HIGGINS Data Center Operations Supervisor
ALESHA ORMAN Telecommunications Support Coordinator
TIM McCORD Communication Equipment Technician
KEITH RILEY Telecommunications System Administrator
DREW WHITE System Specialist
TED CHANDLER Network Specialist
CANDACE FINLEY Technology Support Coordinator
RONALD CHAPMAN Help Desk Support Specialist

RESEARCH, PLANNING AND COLLABORATION

ALICIA SIMMONS Vice President for Research, Planning and Collaboration
DELANE HODGE Executive Secretary
JOHN ROSIER Director, Institutional Research and Assessment
CARRIE HIGHTOWER Secretary to the Director
TIENHAN MA Coordinator, Assessment
BLAKE HUNTER Technology Analyst
KYLE PRINCE Data Manager
KIM PRESSON Coordinator, Institutional Effectiveness
ALLISON NEWTON Coordinator, Proposal Development
LYNN GARNER Project Manager
JENNIFER McCULLARS Conference Coordinator
MANDY ABERNATHY Data Analyst
EVELYN BRAGG Director, Learning Technology CORE
DAWN SILVERBERG Educational Technology Support Specialist

UNIVERSITY ADVANCEMENT

CHARLES LEWIS Vice President for University Advancement
DOROTHY QUARLES Executive Secretary

ADVANCEMENT SERVICES

MELANIE DELAP Director, Advancement Services
TAMMY SALLEE Secretary to the Director

SID DEERMAN *Foundation Accountant*
LESLIE MORRISON *Foundation Accountant*

ALUMNI RELATIONS

KACIOGLE *Director, Alumni Relations*
ALAN RENFROE *Assistant Director, Alumni Relations*
NANCY TURNER *Secretary to the Director*
SHARON BARNES *Clerical Assistant*

CAREER SERVICES

REBECCA E. TURNER *Director, Career Services*
MARIA JAMES..... *Secretary to the Director*
LOLA JOHNSTON *Career Counselor*

MARKETING AND COMMUNICATIONS

TIM GARNER *Executive Director, Marketing and Communications*
TBA *Marketing Specialist*

INTERACTIVE DIGITAL

TBA *Lead Interactive Designer*

MARKETING SERVICES

MARY B. SMITH *Manager, Marketing/Licensing*
TBA *Graphic Artist*

PHOTOGRAPHY

TBA *University Photographer*

PRINT SHOP

CHARLES TORRUELLA *Director, Printing*
STEVE McCLELLAN *Production Digital Copying Binding Specialist*
KEITH SHEARS *Production Digital Copying Specialist*
JESSIE CLAUSEN *Production Digital Copying Specialist*

PUBLIC RELATIONS

BUFFY LOCKETTE *Director, Public Relations*
ANGIE FINLEY *Public Relations Specialist*

UNIVERSITY DEVELOPMENT

EARL WARREN *Director, University Development*
BRENDA HOLT *Secretary to the Director*
KIM DELESANDRO *Major Gifts Officer*
WILLIAM NASH *Major Gifts Officer/Capital Campaign Manager*

FACULTY LISTING

2015-2016 CATALOG

- BEEHLER, JOHN M. (2015) B.S., The Pennsylvania State University; MBA, Indiana University; Ph.D., Indiana University
President and Professor of Accounting
- TURNER, REBECCA O. (1981) B.A., University of Montevallo; M.S.W. and D.S.W., University of Alabama
Professor of Social Work , Provost and Vice President for Academic Affairs
- ACKER, JENNIFER (2012) A.D.N, Jefferson State Community College; M.S.N., Samford University
Instructor of Nursing
- ADAMS, JONATHAN (2001) B.S.W., Jacksonville State University; M.S.W., University of Alabama
Instructor of Social Work
- AKISANYA, OYETUNJI (2012) B.S.N., Jacksonville State University; M.S.N., Jacksonville State University
Instructor of Nursing
- AKPAN, JOSEPH (2011) B.S., Lane College; M.A., Drake University; Ph.D., Iowa State University
Professor of Secondary Education
- ALAM, MOHAMMED GAUS (2006) B.S., Indiana University of Pennsylvania; M.S. Jacksonville State University
Instructor of Computer Information Systems
- AL-HAMDANI, SAFAA H. (1992) B.S., Baghdad University; M.S., Tuskegee University; Ph.D., Oklahoma State University
Professor of Biology
- ALLEN, LINDA (2011) B.A., University of Alabama in Huntsville; M.S., Alabama A & M; Ed.S., Jacksonville State University; Ed.D., University of Alabama
Assistant Professor of Education
- ALVIDREZ, MICHAEL R. (2015) B.S.E. , Arizona State University; M.S.E. and Ph.D. New Mexico State University
Associate Professor Elementary Education
- ANDERSON, THOMAS (2015),B.A., Utah State University, M.A., Prescott College, Ed.D., University of Idaho
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- ANDERSON, WILLIAM CHAD (2014) B.F.A. and M.F.A., Mississippi State University
Assistant Professor of Art
- BAILEY, RODNEY (2005) B.A. and M.S.E., Jacksonville State University
Instructor of English
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- BARCLIFT, DEE (1998) B.S., Jacksonville State University; M.S.W., University of Georgia
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- BARNES, JIMMY H. (2007) B.S., Berry College; M.Ed., University of West Georgia; Ed.S., Jacksonville State University; Ed.D., Nova University
Associate Professor of Educational Resources
- BARNETT, TIMOTHY J. (2003) M.P.A., Boise State University; Ph.D., University of Kansas
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Assistant Professor and Department Head of Curriculum & Instruction
- BAYLES, MAKENZIE (2013) B.S. and M.S., Jacksonville State University; Ph.D., University of Kansas
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- BEARD, LAWRENCE (1999) B.A., B.S., M.A., Ed.S., and Ed.D., University of Alabama
Professor of Special Education
- BECKETT, SCOTT (2001) A.B., Harvard University; M.S., Auburn University
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- BEEZLEY, PAUL RICHARD (2004) B.S., Appalachian State University; M.S. and Ph.D., University of Mississippi
Associate Professor of History

- BEKHOUCHE, NOUREDDINE (2000) B.S., University of Annaba; M.S., Polytechnic University of N.Y.; Ph.D., West Virginia University
Professor of Applied Engineering
- BENNETT, DON (2002) B.S.E. and M.A., Jacksonville State University
Instructor of English
- BENNETT, DORIS (1986) B.A., Randolph-Macon Woman's College; M.A. and Ph.D., University of Alabama
Professor of Economics
- BENSON, JEREMY L. (2011) B.A., Jacksonville State University; M.M., The Florida State University; D.M.A., Rutgers, The State University of New Jersey
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Professor and Librarian
- BLADES, RANDAL W. (2006) B.A., Jacksonville State University; M.F.A., Pennsylvania State University
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- BLAIR, BENJAMIN G. (1998) B.S. and M.S., Jacksonville State University; Ph.D., Mississippi State University
Professor of Biology
- BOGGS, ROBBIE (2002) B.S.H.E. and M.H.E., University of Georgia
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Assistant Professor of Finance
- BOUGERE, MARILYN (1994) B.S., Jacksonville State University; M.S.N., University of Alabama at Birmingham
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- BOYNTON, MICHAEL (2013) B.A., St. Mary's College of Maryland; M.F.A., New York University; M.F.A., Wayne University
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- BRANDON, MARK (1999) B.M. and M.M., University of South Carolina
Instructor of Music
- BROWNSBERGER, DANIELLE (2015) B.A., The Pennsylvania State University; M.A. and Ph.D. Texas A&M University-Commerce
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- BRUZEK, JENNIFER LYNNE (2014) B.A. AND M.ED.; Temple University; Ph.D. University of Kansas
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- BUCHANAN, PAULA R. (2005) B.A. and B.S., Tulane University; M.B.A. and M.P.H., University of Alabama, Birmingham
Instructor of Management
- BURNS, CHRISTY CROWE (2004) B.A., Shorter College; M.A., Jacksonville State University
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- BURNS, MICHAEL (2015) B.S., Dickinson College; M.Sc., University of Alberta; Ph.D., University of Alberta
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- BURROWS, CATHY (2012) B.A. and M.A., Jacksonville State University
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- BUTTRAM, H. DEAN, III (2010) B.S. and M.P.A., Jacksonville State University; Ed.D., University of Alabama
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- CALHOUN, CHRISTIE F. (2013) B.S., M.S., Ed.S., Jacksonville State University
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- CARTER, SHAWN (1998) B.S., Jacksonville State University; Ph.D., Texas A&M University
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Instructor of English

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Associate Professor of Psychology

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RYAN, JEFFREY RICHARD (2005) B.S., SUNY College of Environmental Science and Forestry at Syracuse; M.S., Hood College; Ph.D., North Carolina State University
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SCROGGINS, WILLIAM A., JR. (1979) B.S. and M.B.A., Jacksonville State University; D.B.A., Mississippi State University
Professor of Finance and Real Estate and Head of Finance, Economics and Accounting

SELLERS, SUSAN (1998) B.S., and M.A.E., University of Alabama at Birmingham
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SKINNER, JAUNETH (2008) A.S. and B.F.A., Indiana University; M.F.A., Bowling Green State University
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SMITH, DANIEL E. (2002) B.S., Jacksonville State University; M.S., Texas Tech University
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SMITH, EDWIN H. (1995) B.S., M.S. and Ph.D., Auburn University
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STAPLES, JULIE A. (2014) B.S. AND M.A. University of Alabama
Instructor of Accounting

- STAUBS, MELINDA (2007), B.S., University of Tulsa; M.A., Ed.S. and Ed.D., University of Alabama
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- STEDHAM, MIKE (2000) B.A. and M.A., Jacksonville State University
Instructor of Communication and Manager of Student Media
- STEFFY, DAVID (2000) B.A., Millersville State College; M.A., Washington State University; M.S., West Virginia University; M.S., University of Alaska, Anchorage; Ph.D., University of Western Australia
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- STEWART, NANCY FRANCISCO (2003) B.A., Hollins College; M.S.W., Florida State University; M.A.Ed., Northern Arizona University; Ph.D., The University of Texas at Austin
Professor of Social Work
- STOVALL, JEREMY (2006) B.A. and M.A., Jacksonville State University
Instructor of Music
- STRICKLIN, TERESA CHEATAM (2003) B.A., Jacksonville State University; M.M., University of Louisville
Instructor of Music
- SULT, TEJE H. (2006) B.S., Jacksonville State University; M.S., Murray State University
Instructor of Applied Engineering
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- THORNBURG, GENA (2001) B.S., Auburn University; M.A. and Ph.D., University of Alabama
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Associate Professor of Computer Science
- TOLLEY-JORDAN, LORI (2010) B.S., University of Arkansas; M.S., Southwest Texas State University; Ph.D., University of Alabama
Assistant Professor of Biology
- TOWNSEL, KIM (2009) B.S., Jacksonville State University; M.A., University of Alabama; Ed.D., University of Alabama
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- TRASK, JACQUELINE (2014) B.S.W., Jacksonville State University; M.S.W., Clark Atlanta University; Ph.D., University of Alabama
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- TRIFAS, MONICA (2005) B.S. and M.S., University of Bucharest; Ph.D., Louisiana State University
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- TRIPLETT, JIMMY (2010) B.A., University of North Carolina; Ph.D., Iowa State University
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- WALKER, LAURA PRUITT (2008) B.S.N. and M.S.N., Jacksonville State University, D. H. Ed., A.T. Still University
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- WALLACE, MELANIE (2007) B.S. and M.Ed., University of Montevallo; Ph.D., University of Alabama
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Assistant Professor of Instructional Leadership
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- WHITTON, STEVEN J. (1973) B.A., M.A. and Ph.D., University of South Carolina
Professor of English
- WHORTON, KIMBERLY (1997) B.S. and B.S.W., Jacksonville State University; M.S.W., University of Alabama
Instructor of Social Work
- WIGHT, NATHAN N. (2003) B.S. and B.A., Abilene Christian University; M.M., Rice University, D.M.A., Arizona State University
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Instructor of English and Associate Dean, College of Arts and Sciences
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Assistant Professor of Nursing
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Professor and Department Head of Military Science
- WOODWARD, JAMES CHARLES (2010) B.F.A., University of Wisconsin; M.M., University of Southern California; D.M.A., Arizona State University
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Professor of Accounting
- ZENANKO, CARL MICHAEL (1990) B.A., Hendrix College; M.Ed., Vanderbilt University
Instructor of Education and Director of Instructional Services Unit
- ZETTILLI, NOUREDINE (2000) B.S., University of Algiers; M.S. and Ph.D., Massachusetts Institute of Technology
Professor of Physics

KEY TO DEPARTMENT/COURSE ABBREVIATIONS

ACC	ACCOUNTING
AN	ANTHROPOLOGY
ART	ART
BY	BIOLOGY
CBA	GENERAL BUSINESS
CIS	COMPUTER INFORMATION SYSTEMS
CJ	CRIMINAL JUSTICE
CLD	COLLABORATIVE TEACHER K-6, 6-12
CS	COMPUTER SCIENCE
COM	COMMUNICATION
CTE	CAREER / TECHNICAL EDUCATION
CY	CHEMISTRY
DR	DRAMA
EC	ECONOMICS
ECE	EARLY CHILDHOOD EDUCATION
EED	ELEMENTARY EDUCATION
ED	EDUCATION
EG	ENGINEERING
EH	ENGLISH
EIM	INSTRUCTIONAL MEDIA
EM	EMERGENCY MANAGEMENT
EPY	EDUCATIONAL PSYCHOLOGY
ESC	ENVIRONMENTAL SCIENCE
ESE	SECONDARY EDUCATION
ESW	EXERCISE SCIENCE & WELLNESS
FCS	FAMILY AND CONSUMER SCIENCE
FH	FRENCH
FIN	FINANCE
FL	FOREIGN LANGUAGE
GL	GEOLOGY
GY	GEOGRAPHY
HPE	HEALTH AND PHYSICAL EDUCATION
HY	HISTORY
IME	INFORMATION MANAGEMENT / E-COMMERCE
ISU	INSTRUCTIONAL SERVICE UNIT
LS	LEARNING SKILLS
MBY	MARINE BIOLOGY
MGT	MANAGEMENT
MKT	MARKETING
MS	MATHEMATICS
MSC	MILITARY SCIENCE
MU	MUSIC
NU	NURSING
OSM	OCCUPATIONAL SAFETY & HEALTH MANAGEMENT
PHS	PHYSICS
PST	PUBLIC SAFETY TECHNOLOGY
PSC	POLITICAL SCIENCE
PSY	PSYCHOLOGY
RDG	READING
REC	RECREATION
SH	SPANISH
SMR	SPORT MANAGEMENT AND RECREATION STUDIES
SPE	SPECIAL EDUCATION
ST	BUSINESS STATISTICS
STU	STUDENT AFFAIRS
SW	SOCIAL WORK
SY	SOCIOLOGY
TEC	TECHNOLOGY (Applied Engineering)

INDEX

Academic Regulations	22
ACT	7
Academic Standing	26
Academic Forgiveness	26
Accounting	139
Accrediting Agencies	2
Administrative Officials	215
Admission Requirements	6
Early Admission	11
Freshman Admission	7
Transfer Admission	8
Transient Admission	11
Advanced Placement	30
American Disabilities Act (ADA)	34
Anthropology	109
Application for Degree	27
Applied Engineering	192
Art	44
Athletics	38
Attendance at Class	27
Audit (Course)	23
Bachelor of Arts Degree	41
Bachelor of Fine Arts	41
Bachelor of Science Degree	41
Bachelor of Science in Education	42
Bachelor of Science in Nursing	42
Bachelor of Social Work	42
Benchmark for Success	43
Biology	49
Board of Trustees	4
Bookstore	36
Business Program – Lower Division	138
Candidates for Degrees	27
Career Services	36
Career/ Technical Education FCS	179
Catalog Time Limits	22
Cellular and Molecular Biology	50
Chemistry	109
Child Development	169
Child Development Center	36
Class Load	23
Class Size	27
Classification	23
CLEP	29
Collaborative Education K-6 and 6-12	160
College of Arts and Sciences	43
College of Commerce and Business Administration	136
College of Education and Professional Studies	152
College of Nursing	201
Communication	155
Computer Science and Information Systems	88
Cooperative Education Program	213
Core Scholars	11
Correspondence Courses	28
Counseling	37
CPA Examination	139
Credit by Challenge	29
Criminal Justice	63
Curriculum and Instruction	159
Degree Summaries	40
Dietetics FCS	174
Dining Services	20
Disability Support Services	37
Disciplinary Policy	32
Dismissal, Academic	26

Drama	67
Duplication of Courses	25
Economics	142
Economics Business	139
Educational Psychology	164
Educational Resources	164
Elementary Education/Early Childhood Education	159
Email, My.JSU	36
Emergency Management	72
Engineering	200
English	77
English Competency Exam (ECE)	28
English Language Institute	39
Exercise Science and Wellness	181
Faculty	228
Family and Consumer Sciences	166
Family Educational Rights & Privacy Act (FERPA)	34
Film and Entertainment Technology	67
Finance	140
Financial Policy	13
First Year Experience	27
Foreign Language	81
French	85
Gadsden, (JSU)	12
Gender Studies	81
General Biology	50
General Business	143
Geography	115
Geology	118
Gerontology	129
Grades	24
Appeals	25
Changes in Final Grade	25
Mid-Term/Final	25
Graduation Requirements	28, 40
History	81
Honors	25
Honors Program	42
Hospitality and Culinary Management FCS	176
Housing	20
Human Sciences FCS	171
ID Card	36
Industrial Leadership	195
Instructional Media	164
Instructional Services	37, 192
Institutional Credit	25
Integrated Studies (Formerly Liberal Studies)	43
International Baccalaureate	31
International Business	142
International House	38
International Programs and Services	39
International Students	9
International Studies	121
Judicial System	32
Key to Departmental/Course Abbreviations	242
Kinesiology	180
Learning Services	37
Learning Skills	87
Liberal Studies (See Integrated Studies)	43
Library, Houston Cole	38
Mail Center	36
Management	140
Manufacturing	194
Marine Biology	54
Marketing	141

Mathematics	88
Merchandising FCS	173
Military Course Evaluation	28
Military Science	209
Mission of the University	5
Motor Vehicles	35
Multicultural Services	37
Music	98
Music Education	104
Natural History, Biology	50
Non-Traditional Credit	28
Nursing	201
Occupational Safety and Health Technology	196
On-line Education	31
Orientation	12
Payment Plan	13
Permanent Record	34
Physical and Earth Sciences	108
Physics	119
Political Science and Public Administration	121
Pre-Engineering	42
Pre-Health Professions	42
Pre-Law Courses	42
Privacy Rights of Students	33
Probation, Academic	26
Psychology	125
Public Safety	35
Public Safety Telecommunications	72
Registration	23
Release of Student Records	34
Replacement Course Policy	24
Requirements, Students	22
Requirements, Graduation Tests	28
Respiratory Therapy.....	207
Second Chance	27
Secondary Education	164
Sequence of Courses	27
Social Security Number	34
Social Work	129
Sociology	129
Spanish	85
Sport Management and Recreation Studies	184
Staff	218
Statistics	147
Student Affairs	214
Student Financial Services.....	15
Student Health Center	37
Student Load	23
Student Responsibility for Degree Requirements	27
Suspension, Academic	26
Teacher Education	153
Tests and Examinations	28
Transfer Credit	8
Transcripts	33
Transient Credit	28
Tuition, Fees	13
Tutoring Services	37
Veterans Affairs	17
Vision Statement	5
Warning, Academic	26
Withdrawals	23

ACADEMIC REGULATIONS

GENERAL REQUIREMENTS

5. A minor, in addition to a major, is required for some degrees. If a minor is required for a particular degree, the program information and plan of study for the major or concentration will provide details for the minor requirement. The B.F.A. degree and the B.S. in family and consumer sciences require an area of concentration in lieu of a minor. Additionally, some degrees for those seeking teacher certification require teaching field(s) in lieu of majors/minors.

ACT/SAT Credit for English Composition

Students will receive advanced placement with credit for English Composition with the following scores:

English Subtest ACT 28-30 or SAT 620-680	EH 101	3
English Subtest ACT 31-36 or SAT 690-800	EH 101 and EH 102	6

For transfer students who have earned non-traditional credit for EH 101 with grades of A, B, C, or P, the University will honor those credits if EH 102 credit has also been earned with a grade of A, B, C, or P.

DEPARTMENT OF BIOLOGY (BY)

242 MARTIN HALL

Department Head: Tim H. Lindblom

Professors: Al-Hamdani, Blair, Carter, Cline, Hamissou, Lindblom, Meade, Rayburn

Associate Professors: Murdock, Sauterer

Assistant Professors: Burns, Tolley-Jordan, Triplett

Instructor: Watkins

The Department of Biology offers a diverse spectrum of undergraduate courses in the biological sciences that enables a student to develop an understanding and appreciation of life, from molecular to ecological, and to develop the strong academic background necessary for pursuing graduate study or a career in biology or the health professions. The Department recognizes the importance of both content and process in science education and thus offers the opportunity to develop communication skills and engage in undergraduate research in the biological sciences.

The **Bachelor of Science** degree with a **Major in Biology** requires an overall minimum of 120 hours with a minimum of 36 hours of 300/400 level courses. At least 12 hours of the 300/400 courses must be taken in residence at JSU. Students must earn a "C" or better in biology coursework and maintain a 2.0 GPA overall and in the courses taken on campus. Once the student has met the requirements for the major, the hours remaining to complete the 120 hours overall will be classified as electives. The Bachelor of Science degree with a major in Biology is for those who intend to pursue careers in health professions (medicine, dentistry, optometry, physical therapy, pharmacy, veterinary medicine, physician assistant, etc.), graduate programs (M.S., Ph.D.), biological education, biomedical sciences, biotechnology, conservation biology, environmental biology, organismal biology, marine biology, industrial professions (lab managers, consulting, etc.), or governmental professions (research scientist, NOAA, NMFS, etc.). After completing a common core of biology courses, the Biology major may choose a concentration from the listing below. Students pursuing a B.S. degree in Biology are not required to have a minor in another academic discipline.

Ecology and Environmental Biology is designed for those majors who plan to enter graduate school or have careers in ecological or environmental research, environmental assessment, or education.

Marine Biology is for majors who plan to enter graduate school or have careers in marine biology research, environmental assessment, or education. The Department is an active member of Alabama's Marine Environmental Sciences Consortium. Summer study at the Dauphin Island Sea Lab is required.

Pre-Health Professional Biology is for those majors who intend to seek admission to such health professions as medicine, dentistry, physical therapy, etc., or graduate study in the biomedical sciences.

Organismal Biology is intended for those majors who plan graduate study in organismal biology (plant or animal biology), or who plan to pursue careers in biological education or conservation biology or as a naturalist.

Cellular and Molecular Biology is for those majors who plan graduate study in biotechnology, cell and molecular biology, or biochemistry or who plan to pursue careers in academic, industrial and/or biotechnology settings.

Advising—Students who plan to earn the B.S. degree in Biology must consult with the Department of Biology for advisement early in their plan of study and every semester thereafter. New students should consult the Department's freshman advisor before or during their first semester. Pre-Health Professional advisees are required to attend scheduled advising sessions that are announced on the departmental webpage. Transfer students should meet with either the Department's transfer advisor or a program advisor before or immediately upon transferring.

To complete the Biology Degree Program, the students majoring in Biology must plan carefully, since science laboratories can cause scheduling conflicts. An advisor can alert students to potential problems and assist in minimizing such conflicts. It is recommended that the Biology major complete the biology core of genetics, cell biology, ecology, and research in biology early in the course of study. Careful planning will facilitate the opportunity for undergraduate research.

Additional departmental, program, advising, and career information is available at www.jsu.edu/biology.

The **Bachelor of Arts Degree** with a **Major in Biology** requires a minimum of 120 hours with a minimum of 36 hours of 300/400 courses. At least 12 hours of the 300/400 level courses must be taken in residence at JSU. Students must earn a "C" or better in biology coursework and maintain a 2.0 GPA overall in courses taken on

campus. Once the student has met the requirements for the major, the hours remaining to complete the overall 120 hours will be classified as electives. At the beginning of the sophomore year, students considering this degree program (BA vs. BS) should consult with the Biology Department Head or their Biology Faculty Advisor. Students pursuing a B.A. degree in Biology are not required to have a minor in another academic discipline.

The Major in Biology (BS)

The requirements in biology for the major are

a. Freshman Biology Sequence: BY 101, 102, 103 and 104	8 hrs
b. Biology Core Courses: BY 322 (Genetics), BY 332 (Ecology) and BY 373 (Cell Biology)	12 hrs
c. Introduction to Research: BY 370.....	2 hrs
d. Biology courses to be selected from each of the following groups:	
Group I – Approved courses in cellular, physiological or developmental biology	4 hrs
Group II – Approved courses in organismal biology	4 hrs
e. Senior Seminar: BY 496	1 hr
f. BY 300/400 electives:	8 hrs
TOTAL hours in Biology	39 hrs
g. Freshman Chemistry Sequence: CY 105, 106, 107 and 108	8 hrs
h. Organic Chemistry Sequence: CY 231 and 232	8 hrs
i. Mathematics: MS 113 or 125 or higher	3-4 hrs
j. Computer Science: CS 201	3 hrs
k. Physics Sequence: PHS 201, 202, 203 and 204.....	8 hrs
TOTAL hours in support courses	30-31

The approved Group I and II courses required for the Biology major vary according to the specific concentration chosen and are outlined in the “Plan of Study” which follows “Course Descriptions.” **No more than 1 hour each of BY 327, BY 397, BY 427, and BY 489 can be applied to the Biology major.**

The Major in Biology (BA)

The requirements in biology for the major are

a. Freshman Biology Sequence: BY 101, 102, 103 and 104.....	8 hrs
b. Biology Core Courses: BY 322 (Genetics), BY 332 (Ecology) and BY 373 (Cell Biology)	12 hrs
c. Introduction to Research: BY 370.....	2 hrs
d. Biology courses to be selected from each of the following groups:	
Group I – Approved courses in cellular, physiological or developmental biology	4 hrs
Group II – Approved courses in organismal biology	4 hrs
e. Senior Seminar: BY 496	1 hr
f. BY 300/400 electives:	8 hrs
TOTAL hours in Biology	39 hrs
g. Freshman Chemistry Sequence: CY 105, 106, 107 and 108	8 hrs
h. Foreign Language Sequence: FL 101/102 or SH 101/102.....	6 hrs
i. Mathematics: MS 113, 125 or 204.....	3-4 hrs
j. Computer Science: CS 201	3 hrs
k. Wellness: MSC 113, 115, FCS 215 or HPE 109	3 hrs

TOTAL hours in support courses.....23-24 hrs

The approved Group I and II courses required for the Biology major are outlined in the “Plan of Study” which follows “Course Descriptions.” **No more than 1 hour each of BY 327, BY 397, BY 427, and BY 489 can be applied to the Biology major.**

DEPARTMENTAL MINORS MINOR IN BIOLOGY

A **Minor in Biology** comprises a minimum of 24 hours that shall include BY 101, 102, 103, 104, 322, 332, 373 and 4 additional hours of approved biology courses at or above the 300 level. A minor in Biology may not be taken in conjunction with a major in Biology.

BIOLOGY (BY) DESCRIPTION OF COURSES

- 101. Introductory Biology I (3).** *Corequisite: BY 103.* An introduction to the concepts of biology, including cellular structure and function, bioenergetics, patterns and mechanisms of inheritance, the processes of evolution, and ecology. For majors and non-majors.
- 102. Introductory Biology II (3).** *Prerequisite: BY 101. Corequisite: BY 104.* An introduction to biodiversity, from bacteria through plants and animals, with an emphasis on their structure, function, and ecological interactions. For majors and non-majors.
- 103. Introductory Biology Lab I (1).** *Corequisite: BY 101.* One two-hour laboratory per week. This course reinforces lecture materials and must be taken concurrently with BY 101.
- 104. Introductory Biology Lab II (1).** *Prerequisite: BY 103. Corequisite: BY 102.* One two-hour laboratory per week. This course reinforces lecture material and must be taken concurrently with BY 102.
- 105. Honors Introductory Biology I (3).** *Prerequisite: Admission to the Honors Program or permission of instructor. Substitutes for BY 101. Corequisite: BY 107.* An advanced introduction to the concepts of biology, including chemistry as related to biology, cell structure and function, energy pathways, cellular reproduction, genetics, genetic techniques, evolution and ecology. For majors and non-majors.
- 106. Honors Introductory Biology II (3).** *Prerequisite: Successful completion of BY 105 or permission of instructor. Substitutes for BY 102. Corequisite: BY 108.* An advanced introduction to diversity in the living world. Emphasis is on structure, function, and ecological interactions of living organisms beginning with bacteria and viruses and progressing through plants and animals. For majors and non-majors.
- 107. Honors Introductory Biology Lab I (1).** *Prerequisite: Admission to the Honors Program or permission of instructor. Substitutes for BY 103. Corequisite: BY 105.* One two-hour laboratory per week. This course reinforces lecture materials with hands-on creative laboratory exercises and must be taken concurrently with BY 105.
- 108. Honors Introductory Biology Lab II (1).** *Prerequisite: Admission to the Honors Program or permission of instructor. Substitutes for BY 104. Corequisite: BY 106.* One two-hour laboratory per week. This course reinforces lecture materials with hands-on creative laboratory exercises and must be taken concurrently with BY 106.
- 114. Introductory Biology Research Lab I (2).** *Corequisite: BY 101 and permission from the instructor.* Substitutes for BY 103. Two-hour laboratory (two times per week). Students will isolate mycobacteriophages from soil samples, purify them, perform electron microscopy, and isolate viral DNA for sequencing.
- 115. Introductory Biology Research Lab II (2).** *Corequisite: BY 102 and permission from the instructor.* Substitutes for BY 104. Two-hour laboratory (two times per week). Students will obtain sequence data for their selected mycobacteriophage, annotate the genome and compare the genome to other mycobacteriophage genomes available in the GenBank database.

- 263. Human Anatomy and Physiology (4).** *Prerequisite:* BY 101, 103. Lecture and laboratory. The first of a two-course sequence of human anatomy and physiology, with an emphasis on the skeletal, muscular, respiratory and circulatory systems. For students in health-related majors; no credit allowed toward Biology major or minor.
- 264. Human Anatomy and Physiology (4).** *Prerequisite:* BY 263. Lecture and laboratory. The second of a two-course sequence of human anatomy and physiology, with an emphasis on the digestive, urinary, reproductive and endocrine systems. For students in health-related majors; no credit allowed towards Biology major or minor.
- 283. Health Microbiology (4).** *Prerequisite:* BY 101, 103. Lecture and laboratory. The study of viruses, bacteria, protozoa and fungi that cause diseases in humans. For students in health-related majors; no credit for Biology major or minor.
- 301. Field Zoology (3).** *Prerequisites:* BY 101, 102, 103, 104. Lecture, laboratory, and field study. Collecting and identifying animals and noting ecological conditions.
- 302. Field Botany (3).** *Prerequisites:* BY 101, 102, 103, 104. Lecture, laboratory, and field study. The laboratory work will involve the collection and identification of native plants of Alabama.
- 303. Biological Conservation (3).** *Prerequisites:* BY 101, 102, 103, 104. A contemporary and historical study of biological conservation in America. Topics include national and global biodiversity, threats to biodiversity, conservation ethics and economics, habitat loss and degradation, habitat fragmentation, overexploitation, invasive species, conservation genetics, and conservation policy. Also addressed are the management of species and population dynamics, ecosystem conservation, restoration of degraded ecosystems, and sustainable development.
- 320. Comparative Vertebrate Anatomy (4).** *Prerequisites:* BY 101, 102, 103, 104. Lecture and laboratory. The comparative study of vertebrate organ systems supplemented in laboratory with the dissection of selected vertebrates.
- 322. Genetics (4).** *Prerequisites:* BY 101, 102, 103, 104. Lecture and laboratory. Important facts, laws, theories, and methods used in the study of genetics.
- 323. Microbiology (4).** *Prerequisites:* BY 101, 102, 103, 104. Lecture and laboratory. General microbiology, including methods of culture and identification of some of the most common types of microorganisms.
- 327. Directed Studies in Biology (1).** *Prerequisite:* BY 322 or 332 or 373. *Recommended:* BY 370. May be duplicated for credit for a total of three (3) semester hours, but only 1 hour may be applied to the major. A laboratory, field or library research investigation dealing with an aspect of the biological sciences. Biology sponsor required for topic approval and supervision. (Grade of Pass/Fail only)
- 331. Principles of Animal Nutrition (3).** *Prerequisites:* BY 101, 102, 103, 104. The classification and function of nutrients, deficiency symptoms, digestive processes, characterization of feedstuffs, and formulation of diets for domestic animals.
- 332. Ecology (4).** *Prerequisites:* BY 101, 102, 103, 104. *Prerequisite or corequisite:* MS 112 or higher. Lecture, laboratory, and field study. The association and distribution of organisms in relation to the major environmental factors.
- 340. Discovering Genomics and Bioinformatics (3).** *Prerequisite:* BY 101. The course provides fundamental background in bioinformatics, both theoretical (bioinformatics algorithms) and practical (databases and web-based tools used to study problems in biology), to students in computer science or in biological sciences. Introduction to the biological problems addressed in this course will be provided, as well as a formal definition of the computational problems and deep exploration of the algorithms for solving these problems. Practical use of topics introduced in class is demonstrated by laboratory exercises and homework problems. Students are grouped for class projects such that each group contains at least one life scientist and one computer scientist. (BY 340 is cross-listed with CS 340, but only one course can be counted for credit.)
- 370. Introduction to Research in Biology (2).** *Corequisite:* BY 322 or 332 or 373. Lecture and discussion. An introduction to research in biology, including discussion of the scientific method; reading, analyzing, and interpreting biological literature; experimental design and use of statistics; building and interpreting figures and tables; ethics; and developing a basic proposal for undergraduate research in biology.

- 373. Cell Biology (4).** *Prerequisites:* BY 101, 102, 103, 104. Lecture and laboratory. The study of prokaryotic and eukaryotic cells, with an emphasis on their chemical and structural organization, bioenergetics and reproduction.
- 397. Biology Internship (1).** *Prerequisites:* BY 101, 102, 103, 104; either BY 322, 332 or 373; and permission of instructor required. May be duplicated for credit for a total of three (3) semester hours, but only 1 hour may be applied to the major. The student will spend a minimum of 25 hours gaining practical experience at a public or private institution or business. (Grade of Pass/Fail only)
- 399. Study Tour (3).** Topics, excursions, and requirements determined by department. May be duplicated for credit; however, only three (3) credits may be applied toward any major or minor. Infrequently scheduled and subject to minimum and maximum numbers. Advance deposit required.
- 402. Medical Microbiology (4).** *Prerequisite:* BY 283 with permission of instructor or BY 323. Lecture and laboratory. The study of pathogenic bacteria, viruses, fungi, and parasites of humans and some domestic animals. Emphasis on identification of pathogens, disease processes, and public health.
- 403. Immunology (3).** *Prerequisite:* BY 373. *Recommended:* BY 323. The study of immunity and how the immune system responds to specific infectious and non-infectious agents. Includes comparative immunology of invertebrate and vertebrate animals, immunological disorders, and application of immunological techniques.
- 405. Animal Behavior (3).** *Prerequisite:* BY 332. Lecture, discussion, demonstration, and library study. The genetic and anatomical basis of behavior, with an emphasis on the impact of behavior on the ecology of animals.
- 406. Ornithology (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. The history, classification, anatomy, physiology, ecology, and distribution of birds, with an emphasis on field identification and ecology.
- 407. Mammalogy (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. Aspects of the biology, ecology, taxonomy, and distribution of Southeastern mammals.
- 408. Public Policy and Ecosystems (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. The course will address the history, evolution, and recent developments in natural resource policy and how it influences ecosystem structure and function. Topics will include fish and wildlife conservation, forest planning and management, agricultural policies, public lands (Bureau of Land Management lands, national forests, national wildlife refuges, national parks, and wilderness areas), endangered species, and policies that influence private lands. The relationship between policies and ecosystem structure and function will be addressed in class and in labs by debates and field exercises.
- 412. Plant Reproduction and Development (4).** *Prerequisites:* BY 322, 373. *Recommended:* CY 105, 106, 107, 108. Lecture and laboratory. A study of structural and functional aspects of reproductive and developmental phenomena in vascular plants.
- 413. Animal Reproduction and Development (4).** *Prerequisites:* BY 322, 373. *Recommended:* CY 105, 106, 107, 108. Lecture and laboratory. A study of the structural and functional aspects of reproductive and developmental phenomena in animals, with an emphasis on the cellular and molecular mechanisms involved.
- 415. Biometrics (3).** *Prerequisites:* BY 322, 332, or 373 and MS 204. An introduction to statistics for biology majors. This course will introduce students to appropriate statistics for analyzing biological data. This course will include how to select random samples, use basic statistical package(s), post-hoc statistical testing and the use of linear regression. The students will be introduced to real-world examples of statistics in ecological, toxicological, and physiological research.
- 422. Biology of Cryptogams (4).** *Prerequisites:* BY 332, 373. Lecture, laboratory, field, and library study. The study of blue-green algae, algae, slime molds, bryophytes, and lichens. Extensive field and laboratory identifications.
- 427. Independent Studies in Biology (1).** *Prerequisite:* BY 370. May be duplicated for credit for a total of three (3) semester hours, but only 1 hour may be applied to the major. A laboratory or field research project dealing with an aspect of the biological sciences. Biology sponsor required for topic approval and supervision. (Grade of Pass/Fail only)

- 434. Animal Systems Physiology (4).** *Prerequisites:* BY 373, CY 105, 106, 107, 108. *Recommended:* CY 109 or 231, 232; one semester of physics. Lecture and laboratory. A systematic survey of organ system physiology in vertebrates, with an emphasis on systems analysis, biophysics, and bioengineering.
- 435. Landscape Ecology and Management (4).** *Prerequisites:* BY 332 and MS 204. Lecture, laboratory, and field study. The role of spatial and temporal heterogeneity in the management of wildlife and natural resources is emphasized. Topics addressed include detection and description of heterogeneity, landscape dynamics and models, ecosystem management, adaptive management, genetics in conservation and management, population dynamics, community management, landscape-level conservation, managing biodiversity, and human interactions with ecosystems.
- 438. Freshwater Biology (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. An analysis of the unique ecology and biology of the freshwater ecosystems, with extensive field work and a research project involved.
- 440. Evolutionary Biology (4).** *Prerequisite:* BY 322. Lecture, laboratory, and field study. A study of the processes and mechanisms which lead to evolutionary change in the biota.
- 442. 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.
- 445. Ecotoxicology (4).** *Prerequisites:* BY 332, BY 373. *Recommended:* BY 322. Lecture, laboratory and field study. This course is a survey of ecotoxicology: study of the integration of the major processes involved with transport, exposure and response of biological systems to xenobiotics; study of how toxicants mediate interactions between organisms and their biotic and abiotic environments; study of the impact and toxic effects of pollutants on diversity, growth and metabolism of living organisms, populations, communities, and the ecosystem.
- 450. Molecular Biology (4).** *Prerequisites:* BY 322, 373, or permission of the instructor. Lecture and laboratory. A study of the processes involved in the expression of biological information at the molecular level. The laboratory includes methods in recombinant DNA technology.
- 451. Plant Anatomy (4).** *Prerequisite:* BY 373. Lecture and laboratory. The comparative structural organization of the vegetative and reproductive parts of seed plants, from cells to tissues to systems.
- 452. Plant Taxonomy (4).** *Prerequisite:* BY 322 or 332. Lecture, library, laboratory, and field study. Survey of plant nomenclature, identification systems, description, evolution, and classification, with an emphasis on vascular plants.
- 453. Dendrology (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. The identification, taxonomy, ecological characteristics, distribution, and economic importance of trees native to North America and ornamentals.
- 454. 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. Advance deposit required.
- 455. Plant Ecology (4).** *Prerequisite:* BY 322 or 332. Lecture, laboratory, library, and field study. The study of the major plant communities of the southeastern U.S. and their relationships with major abiotic features, including autecological field studies of plant species and populations.
- 458. Herpetology (4).** *Prerequisite:* BY 332. *Recommended:* BY 320. Lecture, laboratory, and field study. The study of the taxonomy, ecology, physiology, and external anatomy of amphibians and reptiles, with an emphasis on conservation and field methodology.
- 460. Ichthyology (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. An overview of the evolution, ecology, behavior, physiology, and conservation of fishes.
- 473. Advanced Cell Biology (4).** *Prerequisites:* BY 373. *Recommended:* BY 322, CY 231, 232, 362, 363. Lecture and laboratory. A study of molecular aspects of cell structures and their functions using both descriptive and biochemical approaches.
- 475. Economic Botany (4).** *Prerequisites:* BY 101, 102, 103, 104. Lecture, laboratory, and field study. The collection, identification, culture, and preservation of plants for illustration and utilization in the classroom and laboratory.

- 476. Invertebrate Zoology (4).** *Prerequisite:* BY 332. Lecture, laboratory, and field study. The study of the systematics, ecology, physiology, and phylogenetic relationships of invertebrate animals.
- 477. Cell and Tissue Culture (4).** *Prerequisites:* BY 373 and CY 105-108. *Recommended:* BY 322, 412, 431 and CY 231. Lecture and laboratory. The study of *in vitro* manipulation of cells, tissues, and organs, both solid and suspension culture, and their application to biotechnology.
- 478. Endocrinology (3).** *Prerequisites:* BY 373 and CY 231. General introduction to vertebrate endocrine systems and the variety of chemical messengers involved in the regulation of physiological processes. Topics will include discussions of the history and methodologies of endocrinology, hormone synthesis, physiological effects of hormones, and the mechanisms of actions for various hormones.
- 479. Plant Physiology (4).** *Prerequisite:* BY 373. *Recommended:* BY 451. Lecture and laboratory. The study of mineral nutrition, water relations, photosynthesis, metabolism, and transport in vascular plants.
- 480. Advanced Topics in Biology I (1).** *Prerequisites:* BY 322, 332, 373. Lecture and discussion. Topics to be posted in the Biology Department.
- 481. Advanced Topics in Biology II (1).** *Prerequisites:* BY 322, 332, 373. Lecture and discussion. Topics to be posted in the Biology Department.
- 488. Laboratory Practicum I (2).** *Prerequisites:* BY 322, 332, 373 and permission of instructor. Lecture and laboratories. The design, organization, and implementation of laboratory exercises, the use of appropriate equipment and instructional materials, and laboratory safety and supervision. **Offered fall term only.**
- 489. Laboratory Practicum II (1).** *Prerequisites:* BY 322 or 332 or 373, and the permission of the instructor. The organization and implementation of laboratories, including the use of appropriate equipment and instructional materials. (Grade of Pass/Fail only)
- 496. Senior Seminar (1).** *Prerequisites:* BY 370 and Senior standing. The capstone course in biology includes a written report, an oral presentation in a symposium format, satisfactory completion of a comprehensive exam for the major, and participation in departmental assessment. Required for Biology major; should be taken in the last semester.

MARINE BIOLOGY (MBY)

In addition to the requirements for the B.S. in Biology, the Marine Biology concentration requires 16 credit hours of MBY courses which are offered during the **summer only** at the Dauphin Island Sea Lab (DISL). The following courses are required:

MBY 415 Marine Ecology or MBY 461 Marine Behavioral Ecology

MBY 486 Marine Vertebrate Zoology, MBY 487 Marine Invertebrate Zoology, or MBY 481 Marine Mammals

MBY 411 Marine Botany, MBY 423 Marsh Ecology, or MBY 439 Coastal Wetland Ecology

4 hours of MBY at the 300 or 400 level.

MBY electives must be approved by the JSU Marine Biology Advisor. Students interested in Marine Biology must consult with the Biology Department's Marine Biology Advisor for information about the concentrations, actual summer offerings at DISL, JSU Sea Lab Scholarships, application, and registration. Special fees and course availability are determined by DISL. Registration for DISL courses occurs during February each year.

MARINE BIOLOGY (MBY) DESCRIPTION OF COURSES

- 309. Marine Biology (4).** *Prerequisites:* BY 101, 102, 103, 104. A general survey of the invertebrates, vertebrates, and marine plants as communities with emphasis on local examples of these principal groups. Students will have an opportunity to examine marshland, estuarine, beach, dune, inlet and neritic habitats, and niches. Lecture, laboratory, and field work will be included.

- 411. Marine Ecology (4).** *Prerequisites:* BY 101, 102, 103, 104, one year of general chemistry, one semester of general physics. Bioenergetics, community structure, population dynamics, predation, competition, and speciation in marine ecosystems will be studied. Lecture and laboratory work will be included, although considerable time will be spent in field work. Students who have not previously had marine courses may enroll; however, Marine Invertebrate Zoology (MBY 487) or Marine Biology (MBY 309) would be very helpful. Individual species will be studied as they relate to ecological principles which they exemplify, thus providing both a taxonomic and ecologic background.
- 415. Marine Botany (4).** *Prerequisites:* BY 101, 102, 103, 104. A general survey of coastal and marine flora with emphasis on taxonomy, morphology, physiology, ecology, and distribution. Community structure in various ecosystems will be studied. Students will have an opportunity to examine pelagic, marshland, estuarine, beach, sand dune, and inlet niches. Lecture and laboratory work will be included, and a collection will be required.
- 416. Introduction to Oceanography (4).** *Prerequisites:* One year of general biology or one year of general zoology and one year of general botany; one year of general chemistry; one semester of physics; and one semester of college algebra. An introduction to biological, chemical, geological, and physical aspects of the sea.
- 423. Marsh Ecology (4).** *Prerequisite:* Advanced undergraduate standing in biology. A study of the floral and faunal elements of various marine marsh communities with an emphasis on the interaction of physical and biological factors. Lecture, lab, and field trips.
- 427. Marine Technical Methods I (2).** *Prerequisite:* Advanced undergraduate standing. An introduction to instruments and procedures normally utilized aboard a marine research vessel. These include physical, biological, chemical, and geological parameter measurements and sample collections. Basic positioning and communication procedures are included.
- 428. Marine Technical Methods II (2).** *Prerequisite:* Advanced undergraduate standing. An introduction to the laboratory methodology associated with the usual chemical parameters of nutrient analysis. The laboratory approach will be pursued, ship-board and specific practical skills developed.
- 435. Coastal Zone Management (2).** *Prerequisite:* Advanced undergraduate standing. A review of ecological features and of management policies for coastal communities with a description of relevant federal and state programs.
- 439. Coastal Wetlands Ecology (4).** *Prerequisites:* BY 101, 102, 103, 104. This course will focus on coastal and near shore wetlands, with an emphasis on biogeochemical processes, ecological function, and conservation. Lecture and laboratory.
- 459. Shark and Ray Biology (2).** *Prerequisites:* BY 101, 102, 103, 104. This course provides an introduction to the biology of sharks and rays, with special emphasis on regional shark fauna and field techniques. Topics covered include, but are not restricted to, evolution and systematics of chondrichthyan fishes, physiology, reproduction and life history, diet, ecology, and conservation biology. Lecture and lab experiences.
- 460. Dolphins and Whales (2).** *Prerequisites:* BY 320 and MBY 486. This course enables 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 of the order Cetacea. Lecture and laboratory. (Not open to students with credit in MBY 481.)
- 461. Marine Behavioral Ecology (4).** *Prerequisite:* BY 332. *Recommended:* MS 204. This course 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. Lecture, laboratory, and field exercises (some overnight).
- 462. Marine Protozoology (4).** *Prerequisites:* BY 101, 102, 103, 104 or MBY 309. A study of the major groups of protists from a variety of marine habitats, including their taxonomy, structure, and ecology of methods of identification. Lectures, laboratory, and field trips.
- 464. Introduction to Neurobiology (4).** *Prerequisite:* Advanced undergraduate standing. An introduction to the neuroanatomy and neurophysiology of marine invertebrates and vertebrates. A neurosim computer package is used to help illustrate the basic principles and to allow a detailed exploration of neurophysiology and neural networks. Lecture and lab.

- 465. Biology and Conservation of Marine Turtles (2).** *Prerequisites: BY 101, 102, 103, 104.* This course will cover the identification, distribution, nesting behavior, migratory behavior, population biology and genetics, evolution, and conservation of marine turtles. Lecture and laboratory. Overnight field trip and special fees apply.
- 481. Marine Mammals (4).** *Prerequisites: BY 101, 102, 103, 104.* This course will cover the evolutionary history, taxonomy/classification, anatomy, physiology, behavior, conservation/management issues, and research techniques related to marine mammals. Lecture and laboratory. (Not open to students with credit in MBY 460.)
- 486. Marine Vertebrate Zoology (4).** *Prerequisites: BY 101, 102, 103, 104.* A study of marine fishes, reptiles and mammals, with an in-depth, comprehensive treatment of their systematics, zoogeography, and ecology. Lectures will encompass subject matter on a nonregional basis. Field and laboratory work will stress the vertebrate fauna of the northern Gulf of Mexico. Most of the courses will be devoted to fishes. Students will have an opportunity to assemble a collection of vertebrate species.
- 487. Marine Invertebrate Zoology (4).** *Prerequisites: BY 101, 102, 103, 104.* An examination of the systematics, ecology, physiology, and phylogenetic relationships of locally occurring marine invertebrate taxa. Lecture, laboratory, and field work required. Opportunity to acquire collections of local fauna.
- 491. Directed Research (2).** *Prerequisite: Consent of instructor.* Students may enroll by special arrangement to do research in any of the subject areas of marine science currently being offered at the Sea Laboratory.
- NOTE:** Other Marine Science courses taught at the Sea Lab located on Dauphin Island, Alabama, include GY 329, Coastal Climatology, and GL 390, Marine Geology. Descriptions of these courses are listed under the Department of Physical and Earth Sciences.

PLANS OF STUDY

BACHELOR OF SCIENCE MAJOR: BIOLOGY

I. Plan of Study: CONCENTRATION IN ECOLOGY AND ENVIRONMENTAL BIOLOGY

FRESHMAN YEAR

Fall

Spring

EH 101	3
BY 101	3
BY 103	1
CY 105	3
CY 107	1
MS 112	3
.....STU 101	

	14

EH 102.....	3
BY 102.....	3
BY 104.....	1
CY 106	3
CY 108	1
MS 113 or higher.....	3
0	

	14

SOPHOMORE YEAR

Fall	
EH literature ¹	3
HY sequence ²	3
BY Core ³	4
BY 370	2
.....CY 231	4
.....CY 232	4
.....	

	16

Spring	
EH literature ¹	3
HY sequence ²	3
BY Core ³	4
CS 201 or higher.....	3
4	
4	

	17

JUNIOR YEAR

Fall	
EH 141	3
BY Core ³	4
BY Group I ⁴	4
.....Social/Behavioral Science ⁷	
PHS 201 ⁵	3
PHS 203.....	1

	15

Spring	
BY Group II ⁶	4
BY 300+ electives	4
3	
PHS 202 ⁵	3
PHS 204.....	1

	15

SENIOR YEAR

Fall	
BY 300+ electives	4
Behavioral/Social Science	3
Fine Arts	3
Electives	5

	15

Spring	
Electives	13
BY 496	

	14

TOTAL HOURS: 120

¹Select 2 from EH 201, 202, 203, 204, 219, 220, 231, or 232 ²Select from HY 101 & 102 or 201 & 202

³Select from BY 322, 332, or 373

⁴ BY Group I: Select from BY 412, 413, 434, 445, 473, or 479

⁵ Students may elect to take calculus-based PHS 211/212 in place of PHS 201/202.

⁶ BY Group II: Select from BY 320, 323, 406, 407, 422, 442, 451, 452, 453, 458, 460 or 476

⁷Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221⁸Select from ART 202, MU 233, DR 242, or FL 101

II. Plan of Study: CONCENTRATION IN MARINE BIOLOGY

FRESHMAN YEAR

Fall		Spring	
BY 101	3	BY 102	3
BY 103	1	BY 104	1
CY 105	3	CY 106	3
CY 107.	1	CY 108.	1
EH 101	3	EH 102	3
MS 112 or higher	3	MS 113 or higher	3
STU 101	0		
	-----		-----
	14		14

SOPHOMORE YEAR

Fall		Spring	
EH literature ¹	3	EH literature ¹	3
HY sequence ²	3	HY	
sequence ³	3		
BY Core ³	4	BY Core ³	4
BY 370	2	CY	231
.....	4	CY 232	4
	-----		-----
	16		14

JUNIOR YEAR

Fall		Spring	
EH 141	3	CS 201 or higher.....	3
BY Core ³	4	Electives	4
PHS 201 & 203.	4	PHS 202 & 204.	4
Social/Behavioral Science ⁵	3	Social/Behavioral Science ⁵	3
	-----		-----
	14		14

SUMMER BETWEEN JUNIOR AND SENIOR YEAR IN RESIDENCE AT DAUPHIN ISLAND SEA LAB

BY Group II:	MBY 486, 487, or 481	4
	MBY 415 or 461	4

		8

SENIOR YEAR

Fall		Spring	
Electives	9	Electives	7
Fine Arts ⁶	3	BY 496	1
	-----		-----

**SUMMER FOLLOWING SENIOR YEAR
IN RESIDENCE AT DAUPHIN ISLAND SEA LAB**

MBY 411, 423, or 439.....	4
MBY Elective ⁷	4

	8

TOTAL HOURS: 120

¹ Select 2 from EH 201, 202, 203, 204, 219, 220, 231, or 232

² Select from HY 101 & 102 or 201 & 202

³ Select from BY 322, 332, or 373

⁴ Students may elect to take calculus-based PHS 211/212 in place of PHS 201/202.

⁵ Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221

⁶ Select from ART 202, MU 233, DR 242, or FL 101

⁷

⁸ MBY elective (see Marine Biology Program Advisor for current list of approved courses)

III. Plan of Study: CONCENTRATION IN PRE-HEALTH PROFESSIONAL BIOLOGY *

FRESHMAN YEAR

Fall	Spring
EH 1013	EH 1023
BY 1013	BY 1023
BY 1031	BY 1041
CY 1053	CY 106 3
CY 1071	CY 108.1
MS 112 or higher3	MS 113 or higher ²3
STU 1010	
-----	-----
14	14

SOPHOMORE YEAR

Fall	Spring
.....	
HY sequence ¹3	HY sequence ¹3
Social/Behavioral Science ²3	Social/Behavioral Science ²3
CY 2314	CY 232 4
BY Core: BY 322 or BY 3734	BY Core: BY 322 or BY 3734
BY 3702.....CS 201 or higher	3
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16	17

JUNIOR YEAR

Fall	Spring
EH 1413	EH Literature ⁴3
BY Group I: BY 3204	BY Group II: BY 4344
BY 300+ elective4	BY 300+ elective.....4
PHS 201 ³3	. PHS 202 ³3
PHS 2031	PHS 204.....1

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	15		15
SENIOR YEAR			
Fall		Spring	
EH literature ⁴	3	Fine Arts ⁵	3
BY Core: BY 332	4	Electives	11
Electives	7	BY 496	1
	-----		-----
	14		15
TOTAL HOURS: 120			

¹ Select from HY 101 & 102 or 201 & 202

² Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221

³ Student may elect to take calculus-based PHS 211/212 in place of PHS 201/202

⁴ Select 2 from EH 201, 202, 203, 204, 219, 220, 231, or 232

⁵ Select from ART 202, MU 233, DR 242, or FL 101

⁶

⁷ Also recommended: BY 323, 402, 403, 450; CY 362; minor in chemistry

IV. Plan of Study: CONCENTRATION IN ORGANISMAL BIOLOGY

FRESHMAN YEAR			
Fall		Spring	
EH 101	3	EH 102	3
BY 101	3	BY 102	3
BY 103	1	BY 104	1
CY 105	3	CY 106	3
CY 107.	1	CY 108.	1
MS 112 or higher	3	MS 113 or higher.....	3
STU 101	0		
	-----		-----
	14		14

SOPHOMORE YEAR			
Fall		Spring	
HY sequence ²	3	HY sequence ²	3
EH literature ¹	3	EH literature ¹	3
BY Core ³	4	BY Core ³	4
BY 370	2		
CY 231	4	CY 232	4
CS 201 or higher	3	-----	

	16		17

JUNIOR YEAR			
Fall		Spring	
EH 141	3	BY Group II*	4
BY Core ³	4	BY 300+ elective.....	4

BY Group I ¹	4
PHS 201 ³	3
PHS 203	1

	15

Social/Behavioral Science ⁷	3
PHS 202 ³	3
PHS 204.	1

	15

SENIOR YEAR

Fall	
BY 300+ elective	4
Social/Behavioral Science	3
Fine Arts ⁸	3
Electives	9

	16

Spring	
Electives	12
BY 496	1

	13

TOTAL HOURS: 120

¹Select 2 from EH 201, 202, 203, 204, 219, 220, 231, or 232

²Select from HY 101 & 102 or 201 & 202

³Select from BY 322, 332, or 373

⁴ BY Group I: Select from BY 403, 412, 413, 434, 445, 473, 478, 479

⁵Students may elect to take calculus-based PHS 211/212 in place of PHS 201/202.⁶BY Group II: Select from BY 320, 323, 406, 407, 422, 442, 451, 452, 453, 458, 460, 476⁷Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221

⁸ Select from ART 202, MU 233, DR 242, or FL 101

V. Plan of Study: CONCENTRATION IN CELLULAR AND MOLECULAR BIOLOGY *

FRESHMAN YEAR

Fall	
BY 101	3
BY 103	1
CY 105	3
CY 107.	1
EH 101	3
MS 112 or higher	3
.....	
STU 101	0

	14

Spring	
BY 102	3
BY 104	1
CY 106	3
CY 108.	1
EH 102	3
MS 113 or higher.....	3

	14

SOPHOMORE YEAR

Fall		Spring	
EH Literature ¹	3	EH Literature ¹	3
HY sequence ²	3	HY sequence ²	3
BY core 322 or 373	4	BY core 322 or 373.....	4
BY 370.....	2	CS 201 higher	3
CY 231	4	CY 232	4
-----		-----	
	16		17

JUNIOR YEAR

Fall		Spring	
EH 141	3	BY Group II	4
BY core (332)	4	BY 300+ electives	7
BY Group I ³	4	Social/Behavioral Science ⁶	3
PHS 201 ⁴	3	PHS 202 ⁴	3
PHS 203	1	PHS 204.....	1
-----		-----	
	15		15

SENIOR YEAR

Fall		Spring	
Fine Arts ⁷	3	BY 496	1
BY 300+ elective	4	Social/Behavioral Science ⁶	3
Electives ⁸	8	Electives ⁸	10
-----		-----	
	15		14

TOTAL HOURS: 120

¹Select 2: EH 201, 202, 203, 204, 219, 220, 231, or 232

²BY Core Select from HY 101 & 102 or 201 & 202

³MS 113 or higher math BY Group I: Select from BY 412, 413, 434, 473

⁴Student may elect to take calculus-based PHS 211/212 in place of PHS 201/202

⁵BY Group II: Select from BY 323 or 450⁶ Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221

⁷ Select from ART 202, MU 233, DR 242, or FL 101

* A chemistry minor, including Biochemistry (CY 362 and/or 363) is highly recommended for students intending to pursue a graduate degree in Cellular and Molecular Biology.

PLANS OF STUDY

BACHELOR OF ARTS MAJOR : BIOLOGY

I. Plan of study: CONCENTRATION IN NATURALIST BIOLOGY with law enforcement minor.

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101	3	EH 102	3
BY 101	3	BY 102	3
BY 103	1	BY 104	1
CY 105	3	CY 106	3
CY 107.	1	CY 108.	1
CJ 101	3	CJ 202	3
Elective	3	Wellness ²	3
STU 101	0		
-----		-----	
	17		17

SOPHOMORE YEAR

Fall		Spring	
BY Core ³	4	BY Core ³	4
BY 370	2	EH 141	3
MS 112 or higher	3	MS 108, 110, 113 or higher Math	3
EH literature ⁴	3	EH literature ⁴	3
SH Elective ⁵	3	SH Elective ⁵	3
-----		-----	
	15		16

JUNIOR YEAR

Fall		Spring	
BY Core ³	4	BY Group II ⁷	3
BY Group I ⁶	3	BY elective	3
CJ 363	3	CJ 370	3
CS 201 or higher	3	Social / Behavioral Sciences ⁸	3
HY sequence ¹	3	HY Sequence ¹	3
-----		-----	
	16		15

SENIOR YEAR

Fall		Spring	
BY elective 300+	7	BY 496.....	1
CJ 402	3	CJ 460	3
Social / Behavioral Sciences ⁸	3	CJ elective 300+	3
Elective	3	300+ elective	6
		Elective.....	3
-----		-----	
	16		16

TOTAL HOURS: 128

¹Select from HY 101 & 102 or HY 201 & 202

²Select from MSC 113, 115, 116, FCS 215 or HPE 109

³Select from BY 322, 332, 373

⁴Select 2 from EH 201, 202, 203, 204, 219, 220, 231, or 232

⁵See Academic Advisor when selecting Spanish electives (this will count as Fine Art requirement)

⁶For Group I courses, select from BY 403, 412, 413, 434, 445, 473, 478, or 479

⁷For Group II courses, select from BY 301, 302, 320, 323, 406, 407, 422, 442, 451, 452, 453, 458, 460, 475, or 476

⁸Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221

II. Plan of study: CONCENTRATION IN GENERAL BIOLOGY

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.

FRESHMAN YEAR

Fall		Spring	
EH 101	3	EH 102.....	3
BY 101	3	BY 102.....	3
BY 103	1	BY 104.....	1
CY 105	3	CY 106	3
CY 107	1	CY 108	1
HY sequence ¹	3	HY Sequence ¹	3
Elective	3	Wellness ²	3
STU 101	0		
	-----		-----
	17		17

SOPHOMORE YEAR

Fall		Spring	
BY Core ³	4	BY Core ³	4
BY 370	2	EH 141	3
MS 112 or higher	3	MS 108, 110, 113 or higher Math.....	3
EH literature ⁴	3	EH Literature ⁴	3
FL Elective ⁵	3	FL Elective ⁵	3
	-----		-----
	15		16

JUNIOR YEAR

Fall		Spring	
BY Core ³	4	BY Group II ⁶	4
BY Group I ⁶	4	BY or Minor electives ⁷	9
BY or Minor electives ⁷	4	Social / Behavioral Sciences ⁸	3
CS 201 or higher	3		
	-----		-----
	15		16

SENIOR YEAR

Fall		Spring	
BY or Minor elective ⁷	13	BY or Minor elective ⁷	15
Social / Behavioral Sciences ⁸	3	BY 496	1
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TOTAL HOURS: 128

¹Select from HY 101 & 102 or HY 201 & 202

²Select from MSC 113, 115, 116, FCS 215, or HPE 109

³Select from BY 322, 332, 373

⁴Select 2 from EH 201, 202, 203, 204, 219, 220, 231, or 232

⁵See Academic Advisor when selecting Foreign Language electives (this will count as Fine Arts requirement)

⁶For Group I courses, select from BY 403, 412, 413, 434, 445, 473, 478 or 487

⁷Most minor electives must be at the 300/400 level

⁸For Group II courses, select from BY 301, 302, 320, 323, 406, 407, 422, 442, 451, 452, 453, 458, 460, 475, or 476

⁹Select from AN 224, EC 221, EC 222, GY 120, GY 220, PSC 100, PSY 201, PSY 222, or SY 221

ENGLISH COMPETENCY EXAMINATION (ECE)

Undergraduate students must successfully complete the University ECE. Students who have completed JSU's EH 101 and 102, or equivalent compositional courses from a regionally accredited institution, and have earned between 48 and 60 semester hours are eligible to take the examination. Students are strongly advised to complete this examination prior to or during the junior year. Students must pass the ECE at least one semester before filing an application for graduation. Students who fail the ECE must successfully remediate before retaking it; the remediation process must be completed before the semester in which the ECE is retaken. Students register for the examination online. The ECE is given once each fall, spring and summer. Distance Education students who take 100% of their classes online should contact the ECE Director by email at ece@jsu.edu for online registration information.

Students who have earned a Bachelor's Degree from a regionally accredited institution are exempt from the ECE.

**MAJOR: MANAGEMENT WITH CONCENTRATION IN
Entrepreneurship**

Students interested in the Bachelor of Science degree with a major in Management and a concentration in Entrepreneurship must complete MGT 330 – Entrepreneurship, FIN 473 – Entrepreneurial Finance, CBA 487 – Seminar in Entrepreneurial Finance OR CBA 488 – Small Business Experience, and 3 hours of MGT electives.

**MAJOR: MANAGEMENT WITH CONCENTRATION IN
HUMAN RESOURCE MANAGEMENT**

Students interested in the Bachelor of Science degree with a major in Management and a concentration in Human Resource Management may select their 9 hours of MGT electives from the following five courses: MGT 389 - Advanced Human Resource Management, MGT 422 - Seminar in Human Resource Management, MGT 468 - Compensation Management, MGT 489 - Management Internship, and MGT 490 - Collective Bargaining.

**MAJOR: MANAGEMENT WITH CONCENTRATION IN
INFORMATION MANAGEMENT/E-COMMERCE**

Students interested in the Bachelor of Science degree with a major in Management and a concentration in Information Management/E-Commerce may select 9 hours of IME electives from the following five courses: IME 380 - Project Management, IME 420 - Virtual Enterprises, IME 450 - E-Commerce Information Management, IME 451 - E-Commerce Applications, and CS 305 - Spreadsheet Modeling.

MARKETING

JUNIOR YEAR

1st Semester	2nd Semester
EH 141, Oral Communication.....3	MKT 378, Consumer Behavior3
CBA 396, Int'l Business3	MKT elective3
FIN 301, Bus Fin3	MGT 305, Org Behavior3
MGT 301, Principles of Mgt3	CBA 350, Bus Communication3
MKT 301, Principles of Marketing3	EC 303, 321 or 3223
	CBA 390, Operations Mgt.....3
-----	-----
15	18

SENIOR YEAR

1st Semester	2nd Semester
MKT 361, Sales.....3	CBA 469, Bus3
MKT 395, Bus-to-Bus Marketing3	MKT 495, Marketing Mgt3
MKT Elective.....3	MKT 497, Marketing Research3
General Elective.....3	MKT 488, Adv. & Promotion3
IME 375, Intro to E-Commerce3	
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15	12

MINORS

Minors in business related areas are not available as part of the regular 120 hour degree program to students earning a Bachelor of Science Degree in Accounting, Business Economics, Finance, Management, or Marketing. At least six (6) credits toward completion of a minor must be taken at JSU. **All course prerequisites stated in the course descriptions in this Catalog must be met.**

A minor in Accounting consists of at least 18 hours of Accounting courses including: ACC 200, 210, 301, 310, 372, and three additional hours of 300-400 level Accounting courses.

A minor in Business Administration consists of at least 25 hours including: ACC 200, ACC 210, FIN 292, FIN 301, MGT 301, 305, MKT 301, and ST 260. This minor is not open to business majors; the BA in economics is the only exception to this policy.

A minor in Business Economics consists of at least 18 hours of economics classes including 221, 222, 303, 321, 322 and three additional hours of 300-400 level EC electives.

A minor in Entrepreneurship consists of at least 18 hours, including FIN 292, FIN 310, MKT 301, MGT 330, IME 375, and either CBA 487 or CBA 488.

A minor in Finance consists of at least 18 hours of Finance courses, including FIN 301, 441, 474 and nine additional hours of 300-400 level FIN electives.

A minor in Information Management/E-Commerce consists of at least 18 hours including IME 375, IME 475, EC 475, MGT 301, CS 400, and one of the following: FIN 300, MKT 301, or MGT 330.

A minor in International Business consists of at least 21 hours including CBA 396, FIN 301, FIN 434, MKT 493 (requires MKT 301 as a prerequisite)¹, EC 450 (requires EC 221, 222 as prerequisites)¹, 3 hours of a foreign language, and either PSC 305 or PSC 432.

A minor in Management consists of at least 18 hours of Management courses including MGT 301, 305, 385, 468 or 490, and six additional hours of 300-400 level MGT electives.

A minor in Marketing consists of at least 18 hours of Marketing courses including MKT 301, 361, 378, 395, 495 and three additional hours of marketing electives.

A minor in Urban Economics/Real Estate Development consists of at least 24 hours including FIN 341, 343, 344, 440 (requires FIN 301 as a prerequisite and FIN 301 requires ACC 200 as a prerequisite)¹, EC 471 (requires EC 221, 222 as prerequisites), MKT 301, 394, and GY 341.

¹This information is provided since these prerequisite courses are in addition to the actual requirements for the minor.

PRE-LAW INFORMATION

There is no single prescribed course of study which pre-law students must follow in order to gain admission to law school. Law schools prefer applicants from a variety of backgrounds so there is no designated pre-law major, minor, or concentration. However, we do suggest courses which allow students the opportunity to develop their verbal and writing skills and which foster critical and analytical thinking. Students should take challenging courses in various disciplines in order to better prepare for law school.

In addition to having an undergraduate degree, pre-law students are required to take the Law School Admission Test (LSAT) prior to entering an ABA accredited law school. This should be done late in the student's junior year or early in the student's senior year. Information regarding the law school admission process may be obtained from the Law School Admission Council at www.LSAC.org. Additional information regarding pre-law may be obtained from the Director of Academic Services, School of Arts and Humanities, located in 107 Martin Hall. A detailed web page is maintained by the Office of Academic Services that includes information related to frequently asked questions, available resources, suggested time line for preparing for and applying to law school, and employment options. The Office of Academic Services also administers a free, practice LSAT at least twice a semester for students from all majors. Visit the web page at http://www.jsu.edu/cas/academic_services/prelaw/index.html for the most current information related to the law school application and admission process or call us at (256)782-8335.

The following information has been deleted from page 121 of the 2016-2017 catalog:

~~PRE-LAW COURSES~~

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

~~In addition to having an undergraduate degree, pre-law students are required to take the Law School Admission Test (LSAT) prior to entering law school. This should be done late in the student's junior year or early in the student's senior year. Additional information regarding the law school admission process may be obtained from the Law School Admission Council at www.LSAC.org. Additional information regarding pre-law may be obtained from the Director of Academic Services, College of Arts and Sciences, located in 107 Martin Hall.~~

The following information has been deleted from pages 124-125 of the 2016-2017 catalog:

~~PLAN OF STUDY~~

~~BACHELOR OF ARTS~~

~~MAJOR: POLITICAL SCIENCE/PRE-LAW~~

~~*In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations.*~~

~~FRESHMAN YEAR~~

Fall		Spring	
EH 101	3	EH 102	3

HY 101 or 201	3	EH 141	3
PSC 100	3	HY 102 or 202 (to complete seq)	3
Fine Arts	3	PSC 102	3
MS 110 or higher	3	MS higher than 110 (MS 204	
recommended).....	3		
STU 101	0		
<hr/>		<hr/>	
15		15	

SOPHOMORE YEAR

Fall		Spring	
Literature	3	Literature	3
Natural Science sequence	4	Natural Science sequence.	4
Social/Behavioral Science	3	EC 222*	3
CS 201	3	Wellness	3
CJ 101	3	ACC 200*	3
PSC 203**	3		
<hr/>		<hr/>	
19		16	

JUNIOR YEAR

Fall		Spring	
PSC Amer. Govt. elective	3	PSC Amer. Govt. elective	3
PSC Global Studies elective	3	PSC Global Studies elective	3
EH 344*	3	FIN 341*	3
Minor/general electives	9	Social/Behavioral Science	3
		Minor/general electives	3
<hr/>		<hr/>	
18		15	

SENIOR YEAR

Fall		Spring	
PSC Theory & Method. elective	3	PSC 444***	3
PSC 443***	3	PSC Theory & Method. elective	3
Minor/general electives	9	Minor/general electives	9
<hr/>		<hr/>	
15		15	

TOTAL HOURS: 128

*These courses are suggested electives and should be taken only after advisement by the pre-law advisor.

**PSC 203 is required for pre-law students.

***PSC 443 or PSC 444 required for pre-law students.

COLLEGE OF NURSING

Bachelor of Science in Respiratory Therapy Accreditation by Commission on Accreditation for Respiratory Care PENDING

Program Director: Paul E. Goodwin
Director of Clinical Education: TBA
Instructors: TBA

Assessment into the Respiratory Therapy program is limited. In addition to meeting the general admission requirements of the university, the applicant must meet the specific requirements and regulations of the Department of Respiratory Therapy. Assessment into the program is based competitively on the factors of demonstrated academic ability, consistency of performance, personal qualifications, including motivation and interpersonal abilities.

Accreditation is currently pending for the professional phase of the program. Students will not be admitted into the professional phase until accreditation is awarded.

Students begin the respiratory therapy program by taking core requirements courses. A separate application is filed to request assessment for the clinical portion (upper division) of respiratory therapy. The department assesses students for eligibility for the upper division once per year. The deadline for submission of application for assessment to the upper division program of respiratory therapy will be posted and announced to students. Those planning to apply for assessment into the upper division respiratory therapy program should contact the Program Director well in advance of the application deadline in order to confirm eligibility.

Entry into the upper division of respiratory therapy requires completion of all core requirement courses with a core requirement Grade Point Average (GPA) of 2.50 or above and a minimum grade of "C" in each core requirement course. If a course is taken more than one time, all grades earned up to and including the first passing grade of "C" or above are used in the calculation of the core requirement GPA. Once a passing grade of "C" or above has been earned in a course, that course cannot be repeated for a higher grade. Students who do not meet the above standards are not eligible to apply for assessment into upper division. Each student's record will be assessed for completion of core requirements and as a basis of approval to enter the upper division. Standardized test scores, such as ACT or SAT, may also be used in the assessment process. The review process may include a personal interview with the candidate, a background check, drug screening, contact with personal references, and, if the student has been enrolled in other respiratory therapy programs, contact with previous program faculty.

RESPIRATORY THERAPY COURSE DESCRIPTIONS

- 300. Fundamentals of Respiratory Care I (4).** A study of respiratory care treatment modalities and equipment. Emphasis is placed on understanding application to patient situations, assessment of care, and principles of operation of equipment. Infection control issues will be included. Students will discuss the pathophysiology, health promotion and disease prevention aspects of each modality. Relevant lab exercises will be included.
- 305. Patient Assessment (4).** A study of patient assessment skills and procedures used in the evaluation of the respiratory patient. Emphasis will be on patient care procedures, physical assessment, laboratory assessment, communication skills and documentation. Professionalism, ethics and civic responsibilities of the respiratory therapist will be discussed. Relevant lab exercises will be included.
- 310. Cardiopulmonary Anatomy and Physiology (3).** A study of the structure and function of the respiratory system. Physiology of the respiratory, cardiac, and renal systems will be discussed. Emphasis will be on how each control the body's acid-base status and the effects of respiratory therapeutic modalities on each system.
- 315. Respiratory Care Pharmacology (2).** A study of pharmacological agents used in the treatment of cardiopulmonary disease and critical care. Emphasis will be on drugs used to influence the respiratory, cardiovascular, nervous and renal systems.

- 320. Clinical I (2).** Practical application of respiratory care performed under supervision at clinical sites. This course serves as an introduction to the hospital environment. Proficiency evaluations of selected respiratory care procedures will be completed. Eight hours of clinical experience for four weeks will be included.
- 325. Fundamentals of Respiratory Care II (4).** This course is a continuation of RT 300. It is designed to continue the progression from basic respiratory care modalities to more advanced therapy and equipment. Emphasis will continue to be on understanding application to patient situations, assessment of care, and principles of operation of equipment. Relevant lab exercises will be included.
- 330. Airway Management and Resuscitation (2).** A study of the selection, application, maintenance, and discontinuance of various artificial airways. Emphasis will be on intubation, extubation, tracheostomy care, and suctioning. The role of the respiratory therapist in a cardiopulmonary arrest will be covered in accordance with American Heart Association Advanced Cardiopulmonary Life Support (ACLS) guidelines. ACLS will be taught.
- 335. Pathology for Respiratory Care (3).** A study of the diseases affecting the respiratory system commonly encountered by practicing respiratory therapists. The pathophysiology, clinical signs and symptoms, diagnosis, management, and prognosis of acute and chronic pulmonary diseases will be discussed.
- 340. Research (3).** A study of clinical research methods and concepts related to respiratory care. Emphasis is on an overview of the research process and how to critically evaluate published and empirical research.
- 345. Clinical II (2).** Practical application of respiratory care performed under supervision at clinical sites. Proficiency evaluations of selected respiratory care procedures will be completed including basic and advanced modalities. Students will prepare and present case studies relevant to this patient population.
- 350. Ventilatory Support I (4).** A study of the basic physics, theory, and methods commonly used in mechanical ventilation. Emphasis will be on patient management and assessment. Invasive and non-invasive ventilation will be discussed, including advanced oxygen delivery systems. Relevant lab exercises will be included.
- 355. Advanced Critical Care Monitoring (3).** A study of advanced cardiopulmonary monitoring used in critical care. Emphasis will be on ventilator waveform analysis, capnography, and hemodynamic monitoring.
- 360. Clinical III (2).** Practical application of respiratory care performed under supervision at clinical sites. Proficiency evaluations of selected respiratory care procedures will be completed including advanced modalities and mechanical ventilation. Students will prepare and present case studies relevant to this patient population.
- 400. Ventilatory Support II (4).** This course is a continuation of RT 350. A study of advanced mechanical ventilation. Adult, pediatric, and neonatal ventilation will be discussed. Emphasis will be on patient management and assessment. Relevant lab exercises will be included.
- 405. Neonatal and Pediatric Respiratory Care (3).** A study of respiratory therapy involving infants and children. Emphasis will be on patient management and assessment in basic and intensive care settings. Developmental anatomy and physiology, pharmacology, disease management and prevention, health promotion, oxygenation, and resuscitation will be discussed. PALS and NRP will be taught. Relevant lab exercises will be included.
- 410. Pulmonary Diagnostics (3).** A study of diagnostic testing and measurements used in providing care for respiratory patients. Emphasis will be on pulmonary function testing, bronchoscopy, sleep studies, and other special procedures commonly encountered by the practicing respiratory therapist. Relevant lab exercises will be included.
- 415. Clinical IV (4).** Practical application of respiratory care performed under supervision at clinical sites. Proficiency evaluations of selected respiratory care procedures will be completed including advanced mechanical ventilation, special populations, and diagnostics. Students will prepare and present case studies relevant to this patient population.
- 420. Palliative, Long-Term, and Preventative Care (3).** A study of the respiratory therapist's role in pulmonary rehabilitation, home care, and patient education and motivation in preventative care. Reimbursement

issues will be discussed. This course will also provide an overview of the growing need for quality palliative care. The scope of palliative care and current end-of-life issues will be introduced.

- 425. Respiratory Therapy Education (3).** A study of general educational and instructional methods and techniques. Emphasis will be on patient education and health promotion. The student will learn how to write learning objectives, how to evaluate patient education, how to prepare and present a topic for an in-service presentation, and how to present a lecture in a classroom and in the laboratory environment.
- 430. Respiratory Therapy Leadership (2).** A study of management of a respiratory therapy and cardiopulmonary department. Emphasis will be on regulatory agency and accreditation standards related to respiratory therapy, departmental budgeting, quality assurance, human resource issues, conflict resolution, and staff training.
- 435. Clinical V (4).** Practical application of respiratory care performed under supervision at clinical sites. This course prepares students to perform as advanced-level respiratory therapists. Proficiency evaluations of selected respiratory care procedures will be completed. Emphasis will be on advanced mechanical ventilation in adults, pediatrics, and neonates; special procedure areas may be assigned.
- 440. Advanced-Level Exam Review (1).** This course is designed to assist students in preparing for the Therapist Multiple-Choice and Clinical Simulation Exams offered by the National Board for Respiratory Care (NBRC).
- 442. Advanced Ventilatory Support (4).** A study of advanced mechanical ventilation. Adult, pediatric, and neonatal ventilation will be discussed. Emphasis will be on patient management and assessment. Invasive and non-invasive ventilation techniques will be included.
- 444. Critical Care Monitoring (2).** A study of monitoring utilized in an intensive care unit. Emphasis will be on ventilator waveform analysis, capnography, pulse oximetry, and hemodynamic monitoring.
- 446. Research for Respiratory Therapists (3).** A study of clinical research methods and concepts related to respiratory care. Emphasis is on an overview of the research process and how to critically evaluate published and empirical research.
- 448. Advanced Practice Elective (3).** The Advanced Practice Elective can be completed in the semester of the student's choice. Completion of the course requires the student to prepare for and complete the requirements for one of the following advanced practice credentials: Advanced Critical Care Specialist, Neonatal-Perinatal Specialist, Certified Asthma Education, Certified Pulmonary Function Technologist, Registered Pulmonary Function Technologist, Certified Sleep Disorder Specialist, Registered Sleep Disorder Specialist, or Certified Tobacco Treatment Specialist.
- 450. Healthcare Education for Respiratory Therapists (4).** A study of the respiratory therapist's role in patient education and health promotion. General educational and instructional methods and techniques will be introduced. The student will learn how to write learning objectives, how to evaluate patient education, how to prepare and present a topic for an in-service presentation, and how to present a lecture in a classroom and in the laboratory environment.
- 452. Patient Care Management Strategies (3).** *Prerequisite: RT 446.* A study of the current professional environment and the role of the respiratory therapist in patient care management. An introduction to the concept of evidence-based practice and discussion of how to incorporate evidence and best practices into professional work. Therapist-driven protocols, respiratory case managers, and care coordinators/navigators will be introduced.
- 454. Advanced Neonatal and Pediatric Care (3).** A study of respiratory care involving infants and children. Emphasis will be on patient management and assessment in basic and intensive care settings. Developmental anatomy and physiology, pharmacology, disease management and prevention, health promotion, oxygenation, and resuscitation will be discussed.
- 456. Healthcare Leadership for Respiratory Therapists (4).** A study of the management of a respiratory therapy and cardiopulmonary department. Emphasis will be on regulatory agency and accreditation standards related to respiratory therapy, departmental budgeting, quality assurance, human resource issues, conflict resolution, staff training, and customer service.

- 458. Special Procedures (3).** A study of diagnostic testing commonly encountered by practicing respiratory therapists. Emphasis will be on pulmonary function studies. Other special procedures will be introduced.
- 460. Alternative Care Roles for Respiratory Therapists (3).** A study of the respiratory therapist's role in pulmonary rehabilitation, long-term care, long-term acute care, home care and palliative care. Patient education and motivation in preventative care will be discussed. An overview of reimbursement issues will be included. The scope of palliative care and end-of-life issues will be discussed.

Core Requirement Courses for Upper Division in Respiratory Therapy (56 Semester Hours)

The following list of courses is not intended to be a substitute for individual advisement by an academic advisor

Area I (6 Semester Hours)

EH 101 English Composition I	(3)
EH 102 English Composition II	(3)

*All students with less than 24 earned hours must take STU 101: First Year Experience Course.

Area II (12 Semester Hours)

Literature	(3)
Literature	(3)
Fine Art	(3)
EH 141 Oral Communication.....	(3)

*Minimum of 3 hours of literature required (Select from: EH 201, EH 202, EH 203, EH 204, EH 231, EH 232, EH 219, EH 220), a 6-hour sequence of either literature or history is required. Minimum 3 hours Fine Art required (Select from ART 202, DR 242, MU 233, or FL 101). If student chooses only 3 hours of literature, then history must be a 6 hour sequence and an additional 3 hours of approved Fine Art or Humanities will be necessary.

Area III (11 Semester Hours)

BY 101/103 Intro. Biology I.....	(4)
CY 115, Concepts of General Chemistry	(4)
MS 112 Precalculus Algebra	(3)

Area IV (12 Semester Hours)

History I.....	(3)
History II.....	(3)
PSY 201 Principles of Psychology	(3)
SY 221	(3)

** Minimum of 3 hours of history required (Select from HY 101, HY 102, HY 201, HY 202), a 6-hour sequence of either literature or history is required. If student chooses only 3 hours of history, then literature must be a 6 hour sequence and an additional 3 hours of approved social/behavioral science will be necessary.

Area V (15 Semester Hours)

BY 263 Anatomy and Physiology I	(4)
BY 264 Anatomy and Physiology II	(4)
BY 283 Health Microbiology	(4)
MS 204 Basic Statistics	(3)

Upper Division Respiratory Therapy Courses

First Semester (15 Semester Hours)

RT 300 Fundamentals of Respiratory Care I	(4)
RT 305 Patient Assessment.....	(4)
RT 310 Cardiopulmonary Anatomy and Physiology	(3)
RT 315 Respiratory Care Pharmacology	(2)
RT 320 Clinical I.....	(2)

Second Semester (14 Semester Hours)

RT 325 Fundamentals of Respiratory Care II.....	(4)
RT 330 Airway Management and Resuscitation	(2)
RT 335 Pathology for Respiratory Care	(3)
RT 340 Research.....	(3)
RT 345 Clinical II	(2)

Third Semester (9 Semester Hours)

RT 350 Ventilatory Support I	(4)
RT 355 Adv. Critical Care Monitoring.....	(3)
RT 360 Clinical III	(2)

Fourth Semester (14 Semester Hours)

RT 400 Ventilatory Support II.....	(4)
RT 405 Neonatal and Pediatric Resp. Care	(3)
RT 410 Pulmonary Diagnostics	(3)
RT 415 Clinical IV	(4)

Fifth Semester (13 Semester Hours)

RT 420 Palliative, Long-Term, and Preventive Care.....	(3)
RT 425 Respiratory Therapy Education	(3)
RT 430 Respiratory Therapy Leadership.....	(2)
RT 435 Clinical V	(4)
RT 440 Advanced Level Exam Review.....	(1)

TOTAL HOURS REQUIRED FOR DEGREE: 121

Respiratory Therapy Bridge Program (RRT)

The RRT_BSRT program is designed to allow Registered Respiratory Therapists that have completed an associate-level program the option of obtaining an advanced degree. The student must complete ten (10) online courses for a total of thirty-two (32) semester hours. The program consist of upper-division respiratory courses that provide the student an opportunity for professional growth and development.

First Semester (9 Semester Hours)

RT 442 Advanced Ventilatory Support	(4)
RT 444 Critical Care Monitoring	(2)
RT 446 Research for Respiratory Therapy.....	(3)

The Respiratory Therapy Bridge Program recognized the past academic and experiential knowledge of the Registered Respiratory Therapists. RRT Bridge students are awarded thirty-three (33) semester hours of RT credit after successful completion of the first semester courses.

Second Semester (10 Semester Hours)

RT 450 Healthcare Education for Respiratory Therapists	(4)
RT 452 Patient Care Management Strategies	(3)
RT 454 Advanced Neonatal and Pediatric Care.....	(3)

Third Semester (9 Semester Hours)

RT 456 Healthcare Leadership for Respiratory Therapists	(3)
RT 458 Special Procedures	(3)
RT 460 Alternative Care Roles for Respiratory Therapists	(3)

To be taken alone or during other semester:

RT 448 Advanced Practice Elective	(3)
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TOTAL HOURS REQUIRED FOR DEGREE: 121

Revision to Transfer Admission and GPA determination policy effective Spring 2017:

The University reserves the right to accept or deny course work presented for transfer. Coursework from regionally accredited institutions will be accepted as equivalent courses at JSU provided JSU offers an equivalent course at the appropriate level. Credit for any course or part of a course will not be granted twice. Courses not having equivalents at JSU may be accepted as an elective. The transfer decision will be made on a course-by-course basis by the Registrar's Office during the credit evaluation process. For additional information, such as appeals of transfer credit, students may contact the Registrar's Office. Grades earned with a "D" or higher from other institutions will be used in computing the **transfer grade point average. Students transferring coursework are advised that program GPA requirements will be based on *institutional GPA requirements as well as resident requirements when considering assessment into or retention in certain programs, major and minor requirements, and graduation requirements. Courses with grades of "D" will be accepted except for certain JSU courses listed in the catalog with a grade mode of NC (No credit). However, a course in which a "D" grade has been earned is not creditable toward the major and/or minor requirements and may not be creditable toward some specific program requirements. If transfer courses are repeated at the transfer institutions, only the highest grade will be initially evaluated. Additionally, "I," "F," "W," "WP" and "WF" grades in courses will not transfer. Any transfer course evaluated after the initial evaluation, in which that course has been repeated, will transfer but will not be included in the transfer GPA or hours earned. Transfer students with a GPA of 2.0 or greater will be provisionally admitted until the final college transcript has been received by the Admissions Office. Once the final transcript has been received, the transfer GPA will be recalculated and must meet the required minimum for admission. Students academically ineligible to return to the last institution attended may not be admitted to JSU. Students under disciplinary probation or suspension at other institutions are not eligible to enroll at JSU. They may appeal to the Admissions Committee for consideration of their individual situation.

Revision to Application Procedures effective Spring 2017:

VI. Returning Students (Students who have attended JSU and earned credit):

Credit for any course or part of a course will not be granted twice. Courses not having equivalents at JSU may be accepted as an elective. The transfer decision will be made on a course-by-course basis by the Registrar's Office during the credit evaluation process. For additional information, such as appeals of transfer credit, students may contact the Registrar's Office. Grades earned with a "D" or better from other institutions will be used in computing **transfer grade-point average. Students transferring course work are advised that program GPA requirements will be based on institutional GPA requirements as well as resident requirements when considering assessment into or retention in certain programs, major and minor requirements, and graduation requirements. Courses with grades of "D" will be accepted except for certain JSU courses. A course in which a "D" grade has been earned is not creditable toward the major and/or minor requirements and may not be creditable toward some specific program requirements. If transfer courses are repeated at the transfer institutions, only the highest grade will be initially evaluated. Additionally, "I," "F," "W," "WP", and "WF" grades will not transfer. Any transfer course evaluated after the initial evaluation, in which that course has been repeated, will transfer but will not be included in the transfer GPA or hours earned. Students academically ineligible to return to the last institution attended may not be admitted to JSU. Students under disciplinary probation or suspension at other institutions are not eligible to enroll at JSU. They may appeal to the Admissions Committee for consideration of their individual situation.

Revision to Replacement Course Policy effective Spring 2017:

Replacement course policy:

Students may improve their GPA by repeating courses at JSU. Only the higher grade will be counted in the institutional GPA. All attempts made at JSU will remain on the academic transcript. If students are on financial aid, they must follow federal regulations for repeated coursework. It should be noted that some programs have higher requirements for assessment into, continuation in, and graduation from the program. Therefore, the replacement course flexibility may not apply to all degree programs. Additionally, student athletes will be governed by the NCAA eligibility guidelines. This policy is effective beginning with the Spring 2017 term.

Revision to Duplication of Courses effective Spring 2017:

Duplication of courses:

Credits toward graduation for any course, or part of a course, will not be granted twice. Only the highest grade will be counted in the *institutional GPA and earned hours. If a student transfers in repeated coursework from their institutions, the highest grade will be the only course grade initially evaluated. Any transfer course evaluated after the initial evaluation, in which that course has been repeated, will transfer but will not be included in the transfer GPA or hours earned. Select Jacksonville State University course numbers may be taken more than one time for credit. Any course number which may be earned for credit more than one time will be noted in the course description of the University Catalog along with the maximum times the course may be utilized for credit without being considered a duplication of credit.

Revision to Honors effective Spring 2017:

Honors:

2. Honors at Graduation a) The designation “cum laude” will be engrossed upon the diplomas of graduating students who obtain an average of 3.5-3.69 quality points on *institutional GPA hours. b) The designation “magna cum laude” will be engrossed on the diplomas of graduating students who maintain an average of 3.7 to 3.89 quality points on institutional GPA hours. c) The designation “summa cum laude” will be engrossed upon the diplomas of graduating students who maintain an average of 3.9 to 4.0 quality points on *institutional GPA hours. d) The designation “special honors in (the major subject)” will be engrossed upon the diplomas of graduating students who maintain a 3.5 average in the major field of study and a 3.25 *institutional GPA average. e) Eligibility for Honors will be determined at the conclusion of the degree program. f) The grade point average is truncated to two places past the decimal for reporting purposes and not rounded.

*Institutional GPA is calculated from course credits earned ONLY at JSU. Institutional GPA will be used to determine program GPA requirements, honors designation, and university graduation requirements.

** Transfer GPA is calculated based on transferring coursework ONLY as determined by the Registrar’s Office during the credit evaluation process. Transfer GPA will be used to determine admission eligibility.

Official School Catalog Addendum – Jacksonville State University

I certify the current policy is true and correct:

The following individuals shall be charged a rate of tuition not to exceed the in-state rate for tuition and fees purposes:

- A Veteran using educational assistance under either chapter 30 (Montgomery G.I. Bill – Active Duty Program) or chapter 33 (Post-9/11 G.I. Bill), of title 38, United States Code, who lives in Alabama while attending a school located in Alabama (regardless of his/her formal State of residence) and enrolls in the school within three years of discharge or release from a period of active duty service of 90 days or more.
- Anyone using transferred Post-9/11 GI Bill benefits (38 U.S.C. § 3319) who lives in Alabama while attending a school located in Alabama (regardless of his/her formal State of residence) and enrolls in the school within three years of the transferor's discharge or release from a period of active duty service of 90 days or more.
- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three year period following discharge or release as described above and must be using educational benefits under either chapter 30 or chapter 33, of title 38, United States Code.
- Anyone using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b)(9)) who lives in Alabama while attending a school located in Alabama (regardless of his/her formal State of residence).
- Anyone using transferred Post-9/11 G.I. Bill benefits (38 U.S.C. § 3319) who lives in Alabama while attending a school located in Alabama (regardless of his/her formal state of residence) and the transferor is a member of the uniformed service who is serving on active duty.
- The policy shall be read to be amended as necessary to be compliant with the requirements of 38 U.S.C. 3679 as amended.

2-3-17

Date

John M. Beebler

Signature of individual authorized to make official revisions to the catalog

President

Title