



# Undergraduate Catalog

## 2024-2025



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# UNDERGRADUATE

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## Jackson State University

Volume MMXXIV

All statements in this catalog are announcements of present policies only and are subject to change at any time by proper authority without prior notice.

Jackson State University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age, national origin, disability status, protected veteran status, or any other characteristic protected by law.

Jackson State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, masters, specialists, and doctorate degrees. Contact the:

Southern Association of Colleges and Schools Commission on Colleges  
1866 Southern Lane  
Decatur, Georgia 30033-4097

or call 404-679-4500 for questions about the accreditation of Jackson State University.

The official mailing address for the University is as follows:

1400 John R. Lynch Street  
Jackson, Mississippi 39217

Telephone: (601) 979-2121

[www.jsums.edu](http://www.jsums.edu) (<http://www.jsums.edu>)

# Directory

## University Administration

### Office of the President

H. P. Jacobs Administration Tower, Ninth Floor (601) 979-2323  
<https://www.jsums.edu/president2/>  
[president@jsums.edu](mailto:president@jsums.edu)

### Division of Academic Affairs

H.P Jacobs Administration Tower, Seventh Floor (601) 979-2244  
<https://www.jsums.edu/academicaffairs/>  
[academics@jsums.edu](mailto:academics@jsums.edu)

### Division of Business and Finance

H. P. Jacobs Administration Tower, Fifth Floor (601) 979-3060  
<https://www.jsums.edu/businessfinance2/>

### Division of Institutional Advancement

H. P. Jacobs Administration Tower, Third Floor (601) 979-2282  
<https://www.jsums.edu/institutionaladvancement2/>

### Division of Information Technology

Mississippi e-Center, Second Floor (601) 979-4299  
<https://www.jsums.edu/informationtechnology2/>

### Division of Intercollegiate Athletics

Lee E. Williams Athletics and Assembly Center (601) 979-2291  
<https://gojsutigers.com/index.aspx> (<https://gojsutigers.com/>)

### Division of Research and Economic Development

H.P. Jacobs Administration Tower, Sixth Floor (601) 979-2931  
<https://www.jsums.edu/research/>

### Division of Student Affairs

JSU Student Center, Third Floor (601) 979-2241  
<https://www.jsums.edu/studentlife/>  
[studentaffairs@jsums.edu](mailto:studentaffairs@jsums.edu)

### General Counsel

H.P. Jacobs Administration Tower, Eighth Floor (601) 979-3950  
<https://www.jsums.edu/counsel/>  
[generalcounsel@jsums.edu](mailto:generalcounsel@jsums.edu)

## Colleges and Divisions

### Division of Graduate Studies

H. P. Jacobs Administration Tower, First Floor (601) 979-2455  
<https://www.jsums.edu/graduateschool/>  
[graduate@jsums.edu](mailto:graduate@jsums.edu)

### College of Business

College of Business Building (601) 979-2411  
<https://www.jsums.edu/business/>  
[collegeofbusiness@jsums.edu](mailto:collegeofbusiness@jsums.edu)

### College of Education and Human Development

Joseph H. Jackson Building (601) 979-2433  
<https://www.jsums.edu/education/>

### College of Health Sciences -

Jackson Medical Mall (601) 979-6387  
<https://www.jsums.edu/chs/>

### College of Science, Engineering and Technology

Engineering Building (601) 979-2153

<https://www.jsums.edu/cset2/>  
[cset@jsums.edu](mailto:cset@jsums.edu)

### College of Liberal Arts

Dollye M.E. Robinson Building (601) 979-7036  
<https://www.jsums.edu/liberalarts/>

## Where to Go for Information and Assistance

### Admissions and Recruitment

Undergraduate Admissions and Recruitment  
 B.F. Roberts Hall, Second Floor  
 1-866-THEEJSU (843-3578)  
<https://www.jsums.edu/admissions/>  
[futuretigers@jsums.edu](mailto:futuretigers@jsums.edu)

### Disability Services & ADA Compliance

Support Services for Student and Employees and Disabilities  
 JSU Student Center, Second Floor (601) 979-3704  
<https://www.jsums.edu/disability/>  
[adaservices@jsums.edu](mailto:adaservices@jsums.edu)

### Alumni and Constituency Relations

Jackson State University 101 Building, Downtown Jackson, 1st floor  
 (601) 979-2281  
<https://www.jsums.edu/alumni/>

### JSU Ticket Office

Mississippi Veterans Memorial Stadium  
 (601) 979-2420  
<https://gojsutigers.com/news/2021/5/9/fall-2021-football-season-tickets-on-sale.aspx>  
[jsuticketoffice@jsums.edu](mailto:jsuticketoffice@jsums.edu)

### Emergencies, Automobile Registration, Lost and Found, and Parking Violations

Department of Public Safety, Public Safety Building (601) 979-2580  
<https://www.jsums.edu/campuspolice/>

### Books and Supplies

JSU Campus Store, JSU Student Center, First Floor (601) 979-2021  
<https://www.bkstr.com/jacksonstatestore> (<https://www.bkstr.com/jacksonstatestore/>)

### Career Services Center

Placement Office, Jacob L. Reddix Building, First Floor (601) 979-2477  
<https://www.jsums.edu/careers/>

### JSU Online

Jackson State University 101 Building, Downtown Jackson, 5th floor  
<https://www.jsums.edu/new-jsuonline/>  
[jsuonline@jsums.edu](mailto:jsuonline@jsums.edu)

### Financial Aid

Financial Aid, B.F. Roberts Hall, First Floor 1-866-THEEJSU (843-3578)  
<https://www.jsums.edu/financialaid/>  
[finaid@jsums.edu](mailto:finaid@jsums.edu)

### Food Services

Campus Dining, JSU Student Center, First Floor (601) 979-0440  
<https://jsums.sodexomyway.com/>

### Honors College

Charles F. Moore Building, First Floor (601) 979-2107



<https://www.jsums.edu/honorscollege/>

**Identification**

ID Center Building (601) 979-2407  
<https://www.jsums.edu/campuspolice/id-center/>

**Health Services/On Campus Medical Attention**

Health Services Center Building (601) 979-2260  
<https://www.jsums.edu/healthservices/>  
healthservices@jsums.edu

**International Programs**

JSU Global, C.F. Moore Building, 3rd Floor (601) 979-1611  
<https://www.jsums.edu/global/>  
International@jsums.edu

**Intramural Sports**

34 Walter Payton Drive, Jackson, MS 39217 (601) 979-1368  
<https://www.jsums.edu/studentlife/intramural/>

**Latasha Norman Center for Counseling Services**

JSU Student Center, Second Floor (601) 979-0374  
<https://www.jsums.edu/latashanormancenter/>  
latashanormancenter@jsums.edu

**Library (Main Campus)**

H.T. Sampson Library (601) 979-2123  
<https://sampson.jsums.edu/screens/OPAC.html>

**Student Organizations**

The Center for Student Engagement and Leadership, JSU Student Center, Second Floor, Rm #2124 (601) 979-3308  
<https://www.jsums.edu/studentlife/student-organizations/>  
jsuengage@jsums.edu

**Payment of Tuition and Fees**

Financial Services, B.F. Roberts Hall, Second Floor 1-866-THEEJSU (843-3578)  
<https://www.jsums.edu/finance/businessoffice/bursar/>  
bursarcares@jsums.edu

**Postal Services**

Jacob L. Reddix Building, First Floor (601) 979-2031  
<https://www.jsums.edu/postalservices/>  
postal@jsums.edu

**Records**

Registrar and Records, B.F. Roberts Hall, Second Floor 1-866-THEEJSU (843-3578)  
<https://www.jsums.edu/registrar/>  
registrar@jsums.edu

**Residential Life**

Student Housing, Campbell College Suites North (601) 979-2326  
<https://www.jsums.edu/housing/>  
housinginfo@jsums.edu

**ROTC (Military Science)**

Dollye M. E. Robinson Bldg., Fourth Floor (601) 979-2175  
<https://www.jsums.edu/arotc/>  
armyrotc@jsums.edu

**AFROTC (Aerospace Science)**

J.Y. Woodard Building  
<https://www.jsums.edu/afrotc/>

afrotc@jsums.edu

**Student Government Association (SGA)**

JSU Student Center, Second Floor (601) 979-0235  
<https://www.jsums.edu/studentlife/student-government-association/>

**Student Conduct**

Dean of Students, JSU Student Center, Third Floor (601) 979-2329  
<https://www.jsums.edu/studentlife/avp-dsl/>  
deanofstudents@jsums.edu

**Student Teaching**

College of Education and Human Development  
Joseph H. Jackson Building, First Floor, Room 103A (601) 979-2335  
<https://www.jsums.edu/teacherquality/>  
teacherquality@jsums.edu

**Student Newspaper (Blue & White Flash)**

Student Publications, MS e-Center@JSU, First Floor (601) 979-2167/8674  
<https://www.jsums.edu/sjms/media-outlets/>  
journalism.mediaudies@jsums.edu  
theflash@jsums.edu

**Campus Tours**

JSU Undergraduate Admissions and Recruitment  
B.F. Roberts Hall, Second Floor  
1-866-THEEJSU (843-3578)  
<https://futuretiger.jsums.edu/tourpicker.asp>  
futuretigers@jsums.edu

**Veteran and Military Student Support Center**

Jacob L. Reddix Building, 3rd Floor (601) 979-1365  
<https://www.jsums.edu/veteranscenter/>  
jsuveterans@jsums.edu

## Background Information

### The University

Jackson State University, a coeducational institution, is supported by the State of Mississippi. It is controlled by the Mississippi Board of Trustees of State Institutions of Higher Learning, appointed by the governor. The University is supported by legislative appropriations supplemented by student fees and federal and private grants.

Jackson State University is located in Jackson, Mississippi, the capital and largest city of the state. Jackson State University has a distinguished history, rich in the tradition of educating young men and women for leadership, having undergone seven name changes as it grew and developed. Founded as Natchez Seminary in 1877 by the American Baptist Home Mission Society of New York, the school was established in Natchez, Mississippi “for the moral, religious and intellectual improvement of Christian leaders of the colored people of Mississippi and the neighboring states.” In November 1882, the school was moved to Jackson, MS; in March 1899, the curriculum was expanded and the name was changed to Jackson College.

The state assumed support of the college in 1940, assigning to it the mission of training teachers. Subsequently, between 1953 and 1956, the curriculum was expanded to include a graduate program and bachelor's programs in the arts and sciences; the name was then changed to Jackson State College in 1956. Further expansion of the curriculum and a notable building program preceded the elevation of Jackson State College to university status on March 15, 1974. In 1979, Jackson State University, a public, coeducational institution, is supported by legislative appropriations supplemented by student fees and federal and private grants.

### Jackson State University Presidents

1877-1894: Dr. Charles Ayer  
 1894-1911: Dr. Luther G. Barrett  
 1911-1927: Dr. Zachary T. Hubert  
 1927-1940: Dr. B. Baldwin Dansby  
 1940-1967: Dr. Jacob L. Reddix  
 1967-1984: Dr. John A. Peoples, Jr.  
 1984-1991: Dr. James A. Hefner  
 1991-1992: Dr. Herman B. Smith (interim)  
 1992-1999: Dr. James E. Lyons, Sr.  
 1999-2000: Dr. Bettye Ward Fletcher (interim)  
 2000-2010: Ronald Mason, Jr., Esq.  
 2010-2011: Dr. Leslie Burl McLemore (interim)  
 2011-2016: Dr. Carolyn W. Meyers  
 2017: Dr. Rod Paige (interim)  
 2017-2020: Dr. William B. Bynum, Jr.  
 2020-2023: Thomas K. Hudson, Esq.  
 2023-Present: Dr. Marcus L. Thompson

#### Vision Statement

Building on its historic mission of empowering diverse students to become leaders, Jackson State University will become recognized as a challenging, yet nurturing, state-of-the-art technologically-infused intellectual community. Students and faculty will engage in creative research, participate in interdisciplinary and multi-instructional/organizational collaborative learning teams and serve the global community.

## Mission Statement

The mission of Jackson State University, an HBCU and comprehensive urban research university, is to provide quality teaching, research, and service at the baccalaureate, master, specialist, and doctoral levels to diverse populations of students and communities using various modalities to ensure that they are technologically-advanced, ethical, global leaders who think critically and can address societal problems and compete effectively.

## Accreditations

Jackson State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, master, specialist, and doctorate degrees. Contact the:

Southern Association of Colleges and Schools Commission on Colleges  
 1866 Southern Lane  
 Decatur, Georgia 30033-4097

or call 404-679-4500 for questions about the accreditation of Jackson State University.

Specific programs are accredited by the following agencies:

- Accreditation Board for Engineering and Technology (ABET)
- The Association to Advance Collegiate Schools of Business (AACSB)
- American Chemical Society (ACS)
- American Psychological Association (APA)
- Association of Technology, Management, and Applied Engineering (ATMAE)
- Computing Accreditation Commission
- Council for the Accreditation of Educator Preparation (CAEP)
- Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association (ASHA)
- Council on Social Work Education (CSWE)
- Counseling for Accreditation of Counseling and Related Educational Programs (CACREP)
- National Association of Schools of Art and Design (NASAD)
- National Association of Schools of Music (NASM)
- Network of International Business
- Network of Schools of Public Policy, Affairs, and Administration (NASPAA)
- Planning Accreditation Board (PAB)

## Professional Licensure

### State Authorization

Jackson State University participates in the State Authorization Reciprocity Agreement (SARA), a voluntary agreement among its member states and U.S. territories that establishes comparable national standards for interstate offering of postsecondary distance-education courses and programs. As a member of the National Council for State Authorization Reciprocity Agreements (NC-SARA), Jackson State University is authorized to provide online programs and courses to students who reside in a state other than Mississippi. It is intended to make it easier for students to take online courses offered by postsecondary institutions based in another state.

## Professional Licensure

Professional licensure/certification requirements vary from state to state, which may affect a student's ability to apply for a professional license/certification upon completing the program. The U.S. Department of Education regulation, 34 CFR 668.43 (a) (5) (v) (<https://www.federalregister.gov/documents/2019/11/01/2019-23129/student-assistance-general-provisions-the-secretarys-recognition-of-accrediting-agencies-the/#p-981>), requires an institution to disclose whether the program will fulfill educational requirements for licensure or certification for each state. SARA approval does not extend to programs that lead to professional licensure.

- **Student's Responsibility:** Students who reside in a state other than Mississippi must review the professional licensure disclosures pertaining to the academic program and consult with the state professional licensing board. It is the applicant's responsibility to contact the appropriate licensing board in their home state to confirm whether or not the Jackson State University degree program will meet the state's licensure requirements.
- **Relocation:** Students who consider relocating to another state, while enrolled in a course or program at Jackson State University, should consult with an academic advisor and the state professional licensing board to discuss licensure requirements. Transferring to a state that is not a member of NC-SARA may affect disbursements of federal financial aid. See NC-SARA portal page – <https://www.nc-sara.org/state-portal-entity-contacts> (<https://www.nc-sara.org/state-portal-entity-contacts/>)
- **International Students:** Prospective students living and/or working outside of the United States should consult with the appropriate certifying agency to determine if successful completion of any degree program at JSU will meet credentialing requirements of the country in which they intend to seek employment, as to certain types of employment or for advanced/specialized educational programs.

## Expected Educational Outcomes

JSU's mission is to provide quality teaching, research, and service at the baccalaureate, master, and doctoral levels to diverse populations of students and communities using various modalities to ensure that they are technologically advanced, ethical, global leaders who think critically; and can address societal problems and compete effectively. The University's mission fully informs the *Expected Educational Outcomes* that the institution views as vital and essential to the competitive advantage of its students. The educational results that JSU expects of its students are listed below:

- the ability to communicate effectively through both oral and written expression [*oral and written communication*];
- the ability to demonstrate competence and creativity in a discipline for the purpose of obtaining and maintaining rewarding employment, and/or engaging in entrepreneurial activities [*entrepreneurship*];
- the ability to analyze, synthesize, and evaluate ideas and data using logic and quantitative reasoning [*mathematics and analytical reasoning*];
- a familiarity with, and the ability to effectively use current and appropriate technology [*application of technology*];
- a social consciousness that will enable one to think critically and responsibly about moral, social, economic, health, cultural, technological, and political issues and to contribute to the improvement of society [*critical thinking*];

- the achievement of a level of social maturity which will empower one to exercise good human relations skills, informed decision-making, motivation, and persistence [*decision-making skills*];
- a knowledge and recognition of the value of one's own ethnic and cultural heritage, and of the similarities and differences inherent in a multicultural society [*diversity*]; and
- a demonstration of leadership and professionalism through the pursuit of research and educational experiences required in one's chosen career [*leadership*].

The Expected Educational Outcomes are the Institution's expectations of its students across the full educational experience.

## General Education Outcomes

Embedded in the Institution's Expected Educational Outcomes are three Educational Outcomes that are specific to General Education (known as the General Educational Outcomes). These outcomes are:

- **Communication:** the ability to communicate effectively through both oral and written expression
- **Mathematics and Analytical Reasoning:** the ability to analyze, synthesize, and evaluate ideas and data using logic and quantitative reasoning
- **Critical Thinking:** the ability to think critically and responsibly about moral, social, economic, health, cultural, technological, and political issues and to contribute to the improvement of society

Technology is integrated throughout the general education curriculum so that each of these General Education Outcomes are targeted using technology including computers, a Learning Management System (i.e., Canvas), digital content, and other digital tools.

## Admissions, Tuition, and Financial Aid

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## Admission to the University

Admission to Jackson State University is administered in accordance with the policies established by the Board of Trustees, State of Mississippi Institutions of Higher Learning (IHL), and by the Jackson State University Admissions and Credits Committee.

Admission decisions are made as applications and supporting documents are received; therefore, early application is encouraged. Information submitted to Jackson State University must be true and accurate. The withholding of pertinent information or the submission of false information may result in denial of admission or in dismissal. The University reserves the right to deny admission to any applicant and to forbid any previously admitted student continued enrollment.

Jackson State complies with all applicable laws regarding affirmative action and equal opportunity in all its activities and programs and does not discriminate against anyone protected by law because of age, color, national origin, race, religion, sex, handicap, or veteran status. The University welcomes applications from all individuals whose preparation and abilities give them a reasonable chance of success in programs offered by the University.

Questions regarding admission should be directed to:

Undergraduate Admissions & Recruitment  
 JSU Box 17330  
 Jackson State University  
 Jackson, Mississippi 39217  
 601-979-6361  
<https://www.jsums.edu/admissions/>

## Freshman Admissions Procedures How to Apply

To apply for freshman admission an applicant must submit the following to Undergraduate Admissions:

1. **Application** – A completed application
2. **Transcripts** – Prospective students should request that their high school send an official six- or seven-semester transcript to Undergraduate Admissions. Final transcripts are not accepted from students. The following high school course units are required and must be listed on the transcript:

### High School Course Requirements Fall 2021, Spring 2022, Summer 2022

(College Preparatory Curriculum)

Subject	Carnegie Units	Contents & Remarks
English	4	All must have substantial writing communication skills (i.e. reading, writing, listening, and speaking.) Compensatory Reading and Compensatory Writing may not be included.
Mathematics	3	Algebra I or its equivalent Math higher than Algebra 1 (2 units)
Science	3	Biology I or its equivalent Science higher than Biology 1 (2 units)
Social Studies	3	U.S. History World History U.S. Government (1/2 unit) Economics (1/2 unit) Introduction to World Geography (1/2 unit)
Arts	1	Includes anyone Carnegie unit (or two 1/2 units) of visual and performing arts course(s) meeting the requirements for high school graduation.
Advanced Electives	2	<b>Option 1:</b> Foreign Language I and Foreign Language II <b>Option 2:</b> Foreign Language I and Advanced World Geography

	<b>Option 3:</b> Any combination of English, Mathematics higher than Algebra I, Science higher than Biology I, Advance Elective category, and AP course, any IB course
Computer Application 1/2	A course that emphasizes the use of technology as a productivity tool. Instruction should include utilizing various forms of technology to create, collaborate, organize and publish information. The application of technology as a productivity tool, rather than specific hardware and/or software packages should be the focus of the course.
Pre-High School Units	Courses taken prior to high school will be accepted for admission provided the course earns Carnegie credit and the content is the same as the high school course.
Substitutions	Advanced Placement (AP) and International Baccalaureate (IB) courses can be substituted for each requirement in the College Preparatory Curriculum.
Course Acceptance	A course may not be used to satisfy more than one requirement.
<b>Total</b>	<b>16.5</b>

**High School Course Requirements Beginning with Students Entering in Fall 2022**  
(College Preparatory Curriculum)

Subject	Carnegie Units	Contents & Remarks
English	4	Units must have substantial writing communication skills (i.e. reading, writing, listening, and speaking.) Compensatory Reading and Compensatory Writing may not be included.
Mathematics	4	Algebra I or its equivalent Math higher than Algebra 1 (2 units)
Science	3	Biology I or its equivalent Science higher than Biology 1 (2 units)
Social Studies	3 1/2	Units must include integrated courses of social sciences and humanities promoting civic competence
Arts	1	Includes anyone Carnegie unit (or two 1/2 units) of visual and performing arts course(s) meeting the requirements for high school graduation.
Advanced Electives	2	<b>Option 1:</b> Foreign Language I and Foreign Language II <b>Option 2:</b> Foreign Language I and one unit from Option 3 <b>Option 3:</b> 1. Any combination of advanced electives above the required Carnegie units in: (a) as noted in the Mississippi Department of Education Secondary Course Manual and/or (b) any Advanced Placement (AP), Academic or Career and Technical Dual Credit (DC), International Baccalaureate (IB) or Advanced International Certificate of Education (AICE) course.

2. Completion of any two\*-year Career and Technical course may count as one unit. Example: completion of both Health Sciences I & II will count as an advanced elective.

Technology or Computer Science 1

A technology course emphasizes the use of technology as a productivity tool. Instruction should include utilizing various forms of technology to create, collaborate, organize, and publish information. The application of technology as a productivity tool, rather than specific hardware and/or software packages should be the focus of the course.

A computer science course emphasizes computational thinking to solve problems.

Courses will involve the study of computers and algorithmic processes, including their principles, their hardware and software designs, their applications, and their impact on society and should include focus on one or more of the following core concepts: computing systems, networks and the internet, data and analysis, algorithms and programming, and impacts of computing. Course equivalent or additional advanced elective may be acceptable for non-Mississippi residents.

Pre-High School Units Courses taken prior to high school will be accepted for admission provided the course earns Carnegie credit and the content is the same as the high school course.

Substitutions Advanced Placement (AP) and International Baccalaureate (IB) courses can be substituted for each requirement in the College Preparatory Curriculum.

Course Acceptance A course may not be used to satisfy more than one requirement.

**Total 16.5**

- 3. **Test Scores** – Official ACT or SAT scores for all applicants should be sent directly to Undergraduate Admissions & Recruitment from the ACT or SAT headquarters (see addresses listed in this section).

Jackson State University is waiving the ACT/SAT test requirements for the 2021-2022 academic year. This change is due to ACT and SAT test postponements/cancellations caused by the COVID-19 pandemic. Student in this category who do not meet the 3.2 CPC GPA requirement will be conditionally admitted to the University, and referred to take the ACCUPLACER Exam.

**American College Testing**

Program 500 ACT Drive  
 P.O. Box 168  
 Iowa City, Iowa 52243-0168  
 (319) 337-1000 | [www.act.org](http://www.act.org) (<http://www.act.org>)

**College Entrance Examination Board**

45 Columbus Ave.  
 New York, NY 10023-6917  
 (212) 713-8000 | [www.CollegeBoard.org](http://www.CollegeBoard.org) (<http://www.CollegeBoard.org>)

**When to Apply**

High school students are encouraged to apply for admission and financial aid in January of their senior year. The earlier applications are received, the earlier students will be notified of admission and financial aid decisions. Any first time entering freshman student who meets the admission requirements and submits the necessary application for the fall semester by April 1st will receive early notification of acceptance to Jackson State University.

Students are encouraged to apply on or before:

Semester/Session	On or Before
Fall semester	July 15th
Spring semester	November 15th
First summer session	April 15th
Second summer session	May 15th

Completed applications, test scores, and transcripts should be received in Undergraduate Admissions & Recruitment at least 30 days prior to the student's scheduled registration date.

## Freshman Admission Requirements

### Mississippi Residents

Regular admission will be granted to the following:

1. All students completing the College Preparatory Curriculum (CPC) with a minimum of a 3.20 high school GPA on the CPC.
2. All students completing the College Preparatory Curriculum (CPC) with (a) a minimum of a 2.50 high school GPA on the CPC or a class rank in the top 50%, and (b) a score of 16 or higher on the ACT (or the SAT equivalent).
3. All students completing the College Preparatory Curriculum (CPC) with (a) a minimum of a 2.00 high school GPA on the CPC, and (b) a score of 18 or higher on the ACT (or SAT equivalent).
4. All students satisfying the NCAA Division I standards for student-athletes who are "full-qualifiers or "academic redshirts."

In lieu of ACT scores, students may submit equivalent SAT scores. Students scoring below 16 on the ACT (Composite) or the equivalent SAT are encouraged to participate in the Year-Long Academic Support Program during their freshman year.

Beginning fall 2021, institutions will use the highest ACT or SAT subject test scores from the same test type when scores from more than one test date are submitted. This process is known as super scoring. A combination of ACT and SAT subtest scores cannot be combined to calculate a super score.

### Academic Placement Resulting From Various Deficiencies

Those Mississippi residents who applied and failed to meet Full Admission Standards along with any Mississippi high school graduate regardless of academic performance may, as a result of the review, be admitted to the summer or fall semester. The ACT is not a requirement in this category. The review shall involve a consideration of high school performance, ACT scores (if available), placement testing, special interests, and skills as well as other non-cognitive factors. The review shall result in placement in one of the following categories:

#### Full Admission

As a result of the review, students in this category may be placed as if admitted under Regular Full Admission. In addition, students may be required to enroll in selected college-level science and social science courses equivalent to high school courses in which their background is inadequate. These courses will yield institutional credit. Other students in this category may be required to participate in the Year-Long Academic Support Program.

#### Students with Academic Deficiencies

Applicants who do not meet the above-listed standards will be required to participate in a screening process. As a result of the screening process, applicants may be admitted to the fall or summer semester. The review shall involve a consideration of high school performance, ACT/SAT scores, placement testing, and special interests and skills, as well as other nonacademic factors. Applicants will be encouraged to participate in a Year-Long Academic Support Program.

#### Full Admission with Academic Deficiencies

Students who have not demonstrated adequate readiness in English, Reading, or Mathematics may be granted Full Admission with Academic Deficiencies to the Summer Developmental Program (which is called The S.T.A.R.S. Program: Students Trained for Academic Readiness and Success), if applicable. This is an intensive program that concentrates on high school subject areas (English, Reading, and Mathematics) that are applicable to success in first-year college courses. These courses carry institutional credit. Students who successfully complete the summer program, by passing the developmental courses in which they were determined to be deficient, will receive full admission, with mandatory participation in the Year-Long academic support program. Students who fail to successfully complete the Summer Developmental Program are not eligible for enrollment in the regular academic year and will be counseled to explore other post-secondary opportunities, including those offered by community colleges.

### Year-long Academic Support Program

This program is designed to assist those students admitted with academic deficiencies as well as other volunteer students, with their freshman courses. The Year-Long Academic Support Program will consist of classroom, individual, and computer-assisted instruction along with career counseling in a laboratory setting. The Program carries institutional credit.

### Intermediate Courses

1. All students admitted under freshman admission requirements (Board Policy 602) enrolled at an IHL university with an ACT Mathematics subtest score of 16 or less will be required to take College Algebra with co-requisite support during their first semester of enrollment. Students with a minimum ACT Mathematics subtest score of 15 who have completed the Mississippi Department of Education's approved mathematics transitional course with a grade of "80" or higher will not be required to take Intermediate Mathematics and should be enrolled in a college-level mathematics course during their first semester of enrollment.
2. All entering students admitted under freshman admission requirements (Board Policy 602) enrolled at an IHL university with an ACT English subtest score of 16 or less will be required to take English Composition with co-requisite support during their first semester of enrollment. Students with a minimum ACT Reading subtest score of 15 who have completed the Mississippi Department of Education approved literacy transitional course with a grade of "80" or higher should be enrolled in a college-level English course during their first semester of enrollment.
3. All entering students admitted under freshman admission requirements (Board Policy 602) enrolled at an IHL university with an ACT Reading subtest score of 16 or less will be required to take Intermediate Reading during their first semester of enrollment. Students taking Intermediate Reading should not be permitted to take reading-intensive courses, such as History. Students with a minimum ACT Reading subtest score of 15 who have completed the Mississippi Department of Education approved literacy transitional course with a grade of "80" or higher will not be required to take Intermediate Reading.
4. Students taking two or more intermediate courses must enroll in the year-long Academic Support Program, or some other IHL-recognized intervention strategy to promote success in the courses in which they

are not fully prepared, according to the ACT subtest scores and will not be permitted to take more than 17 semester hours.

5. Intermediate courses may be delivered through a co-requisite model coupled with a credit-bearing gateway course.
6. Regarding course placement using an ACT subtest score, exemptions to this policy based on prior high school course performance, postsecondary course performance, or other academic experiences must be approved by the institution's Chief Academic Officer or designee.

Note: Intermediate courses do not count toward degree requirements and cannot substitute for elective or major courses required for graduation. Co-requisite courses do meet the General Education requirements.

## Non-Resident Admissions

Any student identified as a non-resident will be qualified for admission to a Mississippi institution of higher learning based on equivalent preparation as determined by the admitting institution. If, however, an admitting institution determines that anticipated enrollment will exceed the institution's capacity to adequately serve all prospective students who are otherwise qualified for admission, then the institution may make appropriate admissions decisions from among the pool of otherwise qualified non-resident applicants in light of the institutional capacity and consistent with constitutional and other legal requirements, as well as in light of the IHL and the admitting institution's values, mission, and goals.

## Applicants Without a Diploma From a Regionally Accredited High School; Home School Students; General Education Degree (GED) Students

1. Applicants who have completed high school from a school that does not hold regional accreditation must submit the following:
  - a. Transcripts reflecting academic performance
  - b. ACT or SAT scores
2. Home-schooled applicants must submit the following:
  - a. Home-school transcripts or portfolio summarizing home school education
  - b. ACT or SAT scores
3. Applicants who have not completed high school must submit the following:
  - a. Qualifying scores on a state-approved high school equivalency exam
  - b. Any transcripts reflecting academic performance in high school
  - c. ACT or SAT scores
4. International applicants who have completed an international or foreign high school may be admitted in another admissions category or must submit one of the following:
  - a. Transcripts reflecting academic performance or a secondary school leaving form or
  - b. ACT or SAT scores

All applicants described in this section are subject to the requirements outlined for Freshman Admission Requirements. Applicants in this section may validate the College Preparatory Curriculum in an alternate way. All applicants described in this section may be required to appear for an on-campus interview.

## Dual Enrollment

JSU also offers highly qualified high school students the opportunity to earn college credit while they are enrolled in high school. To be eligible for enrollment, a high school student must meet the following criteria:

- Have earned 14 core high school units; and
- Have a minimum overall GPA of 3.0 on a 4.0 scale; and
- Obtain an unconditional written recommendation from his/her school counselor, principal or principal's designee

OR

- Have a minimum GPA of 3.0 on a 4.0 scale;
- Earned a minimum composite ACT score of 30 or the equivalent SAT; and
- Obtain an unconditional written recommendation from his/her school counselor or principal.

## Admission of Transfer Students

### Transfer Student Admission Requirements

Transfer applicants who initially meet freshman admission requirements at Jackson State University (listed under Freshman Entrance Requirements), but choose to enroll at another regionally accredited institution, may transfer at any time provided the applicant:

1. submits a formal application (<https://www.jsums.edu/apply/>)
2. submits an official transcript from each college or university attended
3. is in good standing at the last college or university attended

Any student who was not eligible for regular admission and who has not successfully completed the Summer Developmental Program must attend an accredited institution of higher education other than those under the governance of the Mississippi Board of Trustees State Institutions of Higher Learning and must attain a "C" average (2.0 GPA on a 4.0 scale, as calculated by the admitting IHL institution) in the following 30 transferable semester credit hours to be eligible to transfer to an IHL institution:

Six (6) Semester Hours English Composition

Three (3) Semester Hours College Algebra, Quantitative Reasoning or higher level

Six (6) Semester Hours Natural Science (Must be lab-based, i.e., physical science, biology, chemistry, etc.)

Nine (9) Semester Hours Humanities & Fine Arts

Six (6) Semester Hours Social or Behavioral Science

TRANSFER ADMISSION FOR STUDENTS WHO HAVE EARNED AN ASSOCIATE DEGREE

1. Any student who has earned an Associate of Arts degree from a regionally accredited institution and a sufficient GPA as calculated by the admitting institution is eligible for admission.



2. Any student who has earned other Associate level degrees from a regionally accredited institution in a transferable area (as defined by the admitting institution) and sufficient GPA as calculated by the admitting institution may be eligible for admission.

## Transfer of Credits

Students transferring to Jackson State University should know the following:

1. A maximum of 62 semester hours of credit for courses completed at the freshman and sophomore levels will be allowed from a community/junior college toward degree requirements.
2. Jackson State University accepts transfer courses with "C" or above grades.
3. Jackson State University does not accept for-credit courses that are classified as remedial or developmental.
4. Students ordinarily receive no transfer credit for courses designed specifically for technical and vocational career programs. The dean of the college concerned should be consulted on questions pertaining to the transfer of credits.
5. After earning 62 semester hours from any accredited institution, a student may not take additional courses at the community/junior college and have them applied toward a degree from Jackson State University, unless prior approval is obtained from the college dean.
6. Any course taken for credit at another institution while a student is enrolled at Jackson State University must have prior written permission of the student's department chair and dean in order for that credit to be accepted toward the fulfillment of degree requirements at Jackson State University.
7. Grades earned in transfer courses will show on the permanent record at Jackson State University with a "T" in front of the earned grade from the transfer institution but will not be used in calculating Jackson State University grade point averages.
8. Normally, Jackson State University allows full credit on a course taken at another accredited institution if a comparable course is offered at Jackson State University. The final evaluation of transcripts is done by the department responsible for the program of study.
9. All students are required to have the last session of residence or its equivalent at Jackson State University and to complete satisfactorily a minimum of 30 semester hours of courses before graduation.
10. A maximum of 93 semester hours is transferable from an accredited four-year institution. Jackson State University utilizes the American Council on Education's "Guide to the Evaluation of Educational Experiences in the Armed Services" for the evaluation of training for military occupational skills. Final acceptance of such military transfer credit is left to the discretion of the major department chair and the dean of the college in which the student is enrolled.

## Transient Non-Degree Student

Students enrolled at another college or university may apply for admission as a transient student (temporary student who wishes to transfer credits to their home institution). Such admission carries no commitment for permission to register for either term of the regular academic year. Students from other colleges or universities must be in good standing or eligible to continue academic work at their respective institutions and are responsible for determining if these institutions will accept credits earned at Jackson State University.

The student must submit the following:

1. Completed application
2. Official transcript or letter of good standing from the home institution attended

## International Student Admission

A prospective student who is not a citizen of the United States applying for admission to Jackson State University as an undergraduate must apply for admission at least four months prior to the desired date of entrance and must submit the following required documents two months prior to registration:

1. Application for Admission.
2. American College Test Score (ACT) of not less than 16 or combined Scholastic Aptitude Test (SAT) equivalent.
3. Test of English as a Foreign Language (TOEFL) or not less than 525 on the paper examination or computer-based equivalent examination. The following are exempt from the TOEFL Requirements:
  - Non-citizens graduating from a high school in the United States
  - Applicants transferring from a college in the United States and have the 30 required transfer hours
  - English speaking countries as defined by JSU Global (i.e. United Kingdom, Australia, Canada, New Zealand, Ireland, Nigeria, Ghana, and certain Caribbean Islands).
  - Students who successfully complete JSU's English as a Second Language program.
4. Certified translated copies of all transcripts, mark sheets, and diplomas, or an official evaluation of international academic credentials from an accepted service agency.(e.g., World Education Services, Josef Silny & Associates, Inc., Educational Credential Evaluators, International Education Evaluations, Inc.)
5. Certified declaration of Financial Support (sufficient funds to cover expenses for one academic year) should be placed on deposit with the Jackson State University Business Office.
6. Completed student health form showing proof of immunization compliance for measles, mumps, and rubella, if born after December 1956.
7. Proof of testing screening for tuberculosis by chest x-ray and interferon gamma release assays (IGRA) performed in the United States prior to the start of classes.

## Non-Degree Student Admission (21 Years or Older)

An applicant who is at least twenty-one (21) years old and does not meet the regular freshman admission requirements may apply for admission as a non-degree seeking student.

The non-degree seeking student may enroll in a maximum of twelve (12) semester hours during a regular term, six (6) semester hours during a summer term, or equivalent hours for alternate terms. To transition from non-degree-seeking to degree-seeking status, the student must satisfactorily complete twelve (12) hours with a "C" or better average in the general education core. Once admitted to a degree program, a maximum of eighteen (18) semester hours' credit earned as a non-degree-seeking student may be applied toward a baccalaureate degree,

if approved by the dean of the college or school from which the degree is sought.

## Readmission

A former student (one who has not earned a bachelor's degree from Jackson State University or withdrew from the University) must submit an Application for Readmission. Official transcripts from all institutions attended since the student was last enrolled at Jackson State University must be sent to the Office of Undergraduate Admissions & Recruitment. Unofficial transcripts will not be accepted from students applying for readmission. Suspended students who are approved for readmission will be readmitted on probation.

## Appeal Procedures

Applicants who are denied admission to the undergraduate program and who feel there are highly extenuating circumstances that could justify a different decision may appeal for further consideration. The appeal procedure is as follows:

- Applicants should write to Undergraduate Admissions and request a reevaluation. They should submit all academic and personal records which would help the Admissions and Appeal Committee and/or Director of Admissions make a fair and informed decision. All extenuating circumstances should be explained fully.
- Applicants may request an appointment to meet with members of the Admissions & Appeal Committee and/or Director Admissions to discuss their case. Applicants who are minors may be accompanied by parents or guardians. After discussion, the Committee will communicate its decision through Undergraduate Admissions.

## Credit by College-Level Examination Program (CLEP)

JSU will allow credit by examination to those students who have participated in the College Level Examination Program (CLEP) and who make a scaled score of 50 or above. Unless otherwise noted, a score of 50 will earn three (3) semester hours of credit. Students scoring 63 or above are typically awarded six (6) or more semester hours of credit. Acceptance of credits to a specific degree will be determined by the major department chair and dean of the college in which the student is enrolled.

## Advanced Placement

Students entering Jackson State University for the first time are allowed credit on the advanced placement examination administered by the College Entrance Examination Board. These courses do not affect grade point averages. Unless otherwise noted, an Advanced Placement (AP) score of 3 will earn three (3) semester hours of credit. Students scoring 4 or 5 on an AP exam typically are awarded six (6) semester hours of credit. Acceptance of advanced placement credits to a specific degree will be determined by the major Department Chair and Dean of the college in which the student is enrolled.

## International Baccalaureate

Jackson State University recognizes the IB program. Credit will be considered for the standard and higher level subject examinations with scores of 4, 5, 6 or 7. Unless otherwise noted, an IB score of 4 will earn

three (3) semester hours of credit. Students scoring 5, 6, or 7 typically are awarded six (6) or more semester hours of credit. The applicability of credit toward degree requirements is determined by the dean and/or department head concerned.

## Requirements for a Second Baccalaureate Degree

Admission to the second baccalaureate degree program is subject to approval by the chairperson of the department and dean of the college in which the degree is being sought.

Students who wish to obtain a second baccalaureate degree from Jackson State University must meet the following criteria:

1. Gain admission to the University indicating intent to pursue a second baccalaureate degree.
2. Develop degree plan with approval of an advisor from the department in which the degree is offered.
3. Complete at least 30.0 semester hours of approved courses beyond the first baccalaureate degree in residence at Jackson State University.
4. Maintain a minimum grade point average of 2.00 and the required grade point average for the degree program.

## Rejection of Application

### 1. Fundamental Requirements

Applications containing false, contradictory, questionable, or uncertain data, or which fail to comply with the fundamental requirements or the policies of the institutions as established by the Board shall be rejected.

### 2. Fraudulent Statements and Representations

Whoever, with intent to defraud the state or any department, agency, office, board, commission, county, municipality or other subdivision of state or local government, knowingly and willfully falsifies conceals or covers up by trick, scheme or device a material fact, or makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing the same to contain any false, fictitious or fraudulent statement or entry, shall, upon conviction, be punished by a fine of not more than Ten Thousand Dollars (\$10,000.00) or by imprisonment for not more than five (5) years, or by both such fine and imprisonment. This section shall not prohibit the prosecution under any other criminal statute of the state.

## Residence Requirements

### 1. Residence of a Minor

For purposes of determining whether a minor pay out-of-state or in-state tuition for attendance at the University, the residence of a person less than 21 years of age is that of the father, the mother or a general guardian duly appointed by a general guardian duly appointed by a proper court in Mississippi. If a court has granted custody of the minor to one parent, the residence of the minor is that of the parent who was granted custody by the court. If both parents are dead, the residence of the minor is that of the last surviving parent at the time of that parent's death, unless the minor lives with a general guardian duly appointed by a proper court of Mississippi, in which case their residence becomes that of the guardian. A minor student who, upon registration at a Mississippi institution of higher learning or community college, presents a transcript demonstrating graduation

from a Mississippi secondary school and who has been a secondary school student in Mississippi for not less than the final four years of secondary school attendance shall not be required to pay out-of-state tuition. This policy shall not apply to the residence of a person as it relates to residency for voter registration or voting.

**2. Residence of an Adult**

The residence of an adult is that place where they are domiciled, that is, the place where they actually physically reside with the intention of remaining there indefinitely or of returning there permanently when temporarily absent.

**3. Removal of Parents from Mississippi**

If the parents of a minor who is enrolled as a student at the University move their legal residence from the State of Mississippi, the minor shall be immediately classified as a non-resident student; such a change in classification shall not affect the tuition to be charged upon completion of the semester in which the move takes place.

**4. Residence Required**

No student may be admitted to the University as a resident of Mississippi unless their residence, as defined herein above, has been in the State of Mississippi for a continuous period of at least 12 months preceding their admission.

**5. Residency Petitions**

Non-residents may petition the University for a change of residency classification. A person who enters the state of Mississippi from another state and enters a system institution is considered a non-resident unless the person meets the residency requirements set out in subsection A. Provided, however, that any person who has attained 21 years of age and has thereafter actually established residency as defined within subsection A above and resided within the state of Mississippi for 12 consecutive months after attaining 21 years of age upon sworn affidavit and other representation, may petition the particular institution for a change in residency classification for the purposes of fees and tuition assessment. The institution may make a reasonable inquiry into the validity of the petitioner's claim. Such petition for change of residency must be made on or before the last day a student may register at the particular institution without penalty.

**6. Legal Residence of a Married Person**

A married person may claim the residence status of his or her spouse, or he or she may claim independent residence status under the same regulations set forth above as any other adult.

**7. Children of Faculty or Staff**

Children of parents who are members of the faculty or staff of the University may be classified as residents for the purpose of attendance at the institution where their parents are faculty or staff members.

**8. Active Duty Station in Mississippi**

Members of the United States Armed Forces on extended active duty and stationed within the State of Mississippi and members of the Mississippi National Guard may be classified as residents, for the purpose of attendance at the University. Resident status of such military personnel, who are not legal residents of Mississippi shall terminate upon their reassignment for duty in the continental United States outside the State of Mississippi.

**a. Spouse or Child of Military Personnel**

Resident status of a spouse or child of a member of the Armed Forces of the United States on extended active duty shall be that of the military spouse or parent for the purpose of attending the University during the time that their military spouse or parent is stationed within the State of Mississippi and shall be continued

through the time that the military spouse or parent is stationed in an overseas area with last duty assignment within the State of Mississippi, excepting temporary training assignments en-route from Mississippi. Resident status of a minor child terminates upon reassignment under Permanent Change of Station Orders of the military parent for duty in the continental United States outside the State of Mississippi, excepting temporary training assignments en-route from Mississippi, and except that children of members of the Armed Forces who attain Mississippi residency in accordance with the above provisions, who begin and complete their senior year of high school in Mississippi, and who enroll full time at the University to begin studies in the fall after their graduation from high school, maintain their residency status so long as they remain enrolled as a student in good standing at the University. Enrollment during summer school is not required to maintain such resident status. The spouse or child of a member of the Armed Forces of the United States who dies or is killed is entitled to pay the resident tuition fee if the spouse or child becomes a resident of Mississippi. If a member of the Armed Forces of the United States is stationed outside Mississippi and the member's spouse or child establishes residence in Mississippi and registers with the University, the University shall permit the spouse or child to pay the tuition, fees and other charges provided for Mississippi residents without regard to the length of time that the spouse or child has resided in Mississippi.

A member of the Armed Forces of the United States or the child or spouse of a member of the Armed Forces of the United States who is entitled to pay tuition and fees at the rate provided for Mississippi residents under another provision of this section while enrolled in a degree or certificate program is entitled to pay tuition and fees at the rate provided for Mississippi residents in any subsequent term or semester while the person is continuously enrolled in the same degree or certificate program. A student may withdraw or may choose not to re-enroll for no more than one (1) semester or term while pursuing a degree or certificate without losing resident status only if that student provides sufficient documentation by a physician that the student has a medical condition that requires withdrawal or non-enrollment. For purposes of this subsection, a person is not required to enroll in a summer term to remain continuously enrolled in a degree or certificate program. The person's eligibility to pay tuition and fees at the rate provided for Mississippi residents under this subsection does not terminate because the person is no longer a member of the Armed Forces of the United States or the child or spouse of a member of the Armed Forces of the United States.

**b. Certification of Residence of Military Personnel**

A military person on active duty stationed in Mississippi who wishes to avail themselves or their dependents of the provisions of **(A) Active Duty Station in Mississippi** must submit a certificate from their military organization showing the name of the military member; the name of the dependent, if for a dependent; the name of the organization of assignment and its address (may be in the letterhead); that the military member will be on active duty stationed in Mississippi on the date of registration at the University; that the military member is not on transfer orders; and the signature of the commanding officer, the adjutant, or the personnel officer of the unit of assignment with signer's rank and title. A military certificate must be presented to the registrar of the University each semester at (or within 10 days prior to)

registration each semester for the provisions of the **(A) Active Duty Station in Mississippi** to be effective.

## Financial Aid

The Financial Aid Department at Jackson State University coordinates all financial assistance offered to students. The fundamental purpose of the financial aid program is to make it possible for students to attend school who would normally be deprived of a post-secondary education.

Financial Aid is economic assistance available to help a student meet the difference between what they can afford to pay and what it will actually cost to attend Jackson State University. This economic assistance may be in the form of grants, loans, employment, scholarships, or a combination of any of these programs.

Students seeking federal financial assistance are required to complete the Free Application for Federal Student Aid (FAFSA). The priority deadline date for Jackson State University is April 15 of each year.

### Free Application for Federal Student Aid

(FAFSA) [www.studentaid.gov](http://www.studentaid.gov) (<http://www.studentaid.gov>)

All aid is contingent upon admission; therefore, a student must apply for admission to the University. Federal Financial Aid Programs fall into one of three categories: grants, loans, and work-study.

Grants are financial aid that students do not have to pay back unless the student withdraws from school and owes a repayment. The types of grants available are:

1. Federal Pell Grant
2. Federal Supplemental Educational Opportunity Grant (SEOG)
3. Teacher Education Assistance for College and Higher Education Grant (TEACH)
4. Iraq and Afghanistan Service Grant

The **Federal Pell Grant** is the federal government's largest student aid program and it is used as a "floor" or starting point for developing a student's financial aid award package. Student eligibility is primarily based on financial need that is determined by a formula established by law, which is applied uniformly to all applicants. The formula produces an Expected Family Contribution (EFC) number that determines eligibility for this program.

The **Federal Supplemental Educational Opportunity Grant** is awarded to undergraduate students with exceptional need, giving priority to Pell Grant recipients. Students with the lowest Expected Family Contribution (EFC) numbers are considered to have exceptional needs. Supplemental grants range from \$100 to \$4,000 per academic year.

It is up to the discretion of the financial aid administrator to decide whether the aid package will contain FSEOG based on the availability of funds.

Not everyone who qualified for FSEOG will receive an award due to limited funds. Therefore, it is important for the students to complete the FAFSA early to be considered for these funds.

The **Teacher Education Assistance for College and Higher Education Grant (TEACH)** provides up to \$4,000 a year in grant assistance if the student is completing or plan to complete course work needed to begin a career in teaching.

As a condition for receiving a TEACH Grant, the student must sign an Agreement to Serve promising to teach full-time in a high-need field at a low-income school or educational service agency after completing the course of study for which the student received the grant.

If the student does not complete the teaching service obligation, the TEACH Grant will be converted to a Direct Unsubsidized Loan that must be repaid with interest charged from the date of each TEACH Grant disbursement.

For detailed information on this grant, visit [www.studentaid.gov](http://www.studentaid.gov) (<http://www.studentaid.gov>).

The **Iraq and Afghanistan Service Grant** is for students not eligible for Pell Grant whose parent or guardian was a member of the U.S. Armed Forces and died as a result of service performed in Iraq or Afghanistan after September 11, 2001. The student must be under 24 years old or enrolled in college at the time of the parent's or guardian's death. The student must be at least a part-time student at the time of the parent's or guardian's death.

## Loans

Loans are borrowed money that must be repaid with interest. The types of loans available are:

1. Federal Direct Loans
2. Federal Plus Loans

### William D. Ford Federal Direct Loan Program

Federal Direct Loans (Subsidized and Unsubsidized) are low-interest loans made by the U. S. Department of Education to students enrolled at least half-time. Federal direct loan rates are updated October 1st of each year. Please visit [www.studentaid.gov](http://www.studentaid.gov) (<http://www.studentaid.gov>) for the most current interest rate.

The Federal Direct "Subsidized" Loan is based on financial need, but the Federal Direct "Unsubsidized" Loan is not. The Subsidized and Unsubsidized Federal Direct Loans combined cannot exceed loan maximums set by the Department of Education per academic year. The loan maximums for undergraduate students are:

#### Dependent Students:

\$3,500 plus (\$2,000 unsubsidized) first year;  
\$4,500 plus (\$2,000 unsubsidized) second year, and;  
\$5,500 plus (\$2,000 unsubsidized) third or fourth year.

#### Independent Students:

\$9,500 (No more than \$3,500 in subsidized) first year;  
\$10,500 (No more than \$4,500 in subsidized) second year, and;  
\$12,500 (No more than \$5,500 in subsidized) third or fourth year.

**Note:** Students enrolled in teacher certification or re-certification programs are considered the same as 5th-year undergraduate students, and may borrow up to the same limits as fourth-year students (Dependent or Independent).

Eligible loan amounts are determined by the Cost of Attendance minus Expected Family Contribution, and minus any other assistance the student may receive.

After the student graduates, leaves school, or drops below halftime, they have six months before beginning repayment. This is called a "grace

period" if it is a Subsidized Stafford Loan; they will not have to pay any principal or interest during that period. If the student has an Unsubsidized Direct Loan; they will be responsible for the interest from the time the loan is disbursed until the loan is paid in full.

Student Loan Entrance and Exit Interviews are required for all loan borrowers. Students may contact the Financial Aid Office for more information.

The **Federal Direct PLUS Loan** is a loan for the parent of a dependent child who is enrolled at least half-time. In addition, graduate or professional degree students may obtain PLUS Loans to help pay for their own education. This loan is made through the U. S. Department of Education. Credit checks are required. The yearly loan limit is the cost of attendance minus any estimated financial aid for which the student is eligible.

The Direct PLUS loan interest rate updates on October 1st of each year. Please visit [www.studentaid.gov](http://www.studentaid.gov) (<http://www.studentaid.gov>) for the most current information.

The **Federal Work-Study Programs (FWS)** provides part-time jobs for students who have financial need, allowing them to earn money to help pay education expenses. The program encourages community service work. At Jackson State University, students work in various offices and departments with their work schedule built around their academic class schedule.

The amount of the FWS award depends on the student's financial need and the amount of money the school has been allocated for the program. In arranging a job and assigning a work schedule, the work-study coordinator will take into account the student's class schedule, health and the skills needed to perform the assigned duties. The salary received will be based on the current minimum wage. The student will be allowed to work up to 20 hours per week unless otherwise indicated. Under no circumstances can a student earn as much FWS money as they want. The total amount of aid awarded from Federal and Non- Federal sources cannot exceed the student's financial need. The student is paid once per month.

**College Work Aid** is a non-need program that provides jobs for students who are unable to qualify for the Federal Work-Study Program. These funds are available for students who possess a needed skill or talent.

Students are employed in a variety of University offices and departments. The criteria for determining a student's eligibility for aid under these programs are:

- the student demonstrates financial need, except for some loan programs;
- has a high school diploma or a General Education Development (GED) certificate;
- is enrolled as a regular student seeking a degree or certificate in an eligible program;
- is a U.S. citizen or eligible non-citizen;
- has a Social Security Number;
- is making satisfactory academic progress;
- has certification that federal aid will be used only for educational expenses;
- certify not in default on federal loan and do not owe money on a federal grant;
- is registered with Selective Service, if required.

## Mississippi State Student Financial Aid Programs

To receive the State Financial Aid, students must apply at <https://maapp.msfinancialaid.org/>

Programs offered by the State are:

- Family Protection Specialist Social Worker Loan/ Scholarship
- Higher Education Legislative Plan for Needy Students (HELP)
- Mississippi Eminent Scholars Grant (MESG)
- Mississippi Law Enforcement Officers and Firemen Scholarship
- Mississippi Resident Tuition Assistance Grant (MTAG)
- Nissan Scholarship
- Mississippi Law Enforcement Officers and Firemen Scholarship
- Teacher Education Scholars Loan/Scholarship
- William Winter Alternative Route Teacher Scholarship/Loan
- William Winter Teacher Scholar/Loan

## Verification Policies and Procedures

The Financial Aid Department conducts verification on all applicants selected for verification by the Department of Education edit checks.

Applicants selected for verification will be placed in one of the five verification groups. The verification group determines which items must be verified. The potential verification items are:

- Adjusted Gross Income (AGI)
- U.S. Income Tax Paid
- Untaxed IRA Distributions
- Untaxed Pensions
- IRA Deductions and Payments
- Tax-Exempt Interest Income
- Education Credits
- Income Earned from Work
- Number in Household
- Number in College
- Supplemental Nutrition Assistance Program (SNAP-Food Stamps)
- Child Support Paid
- High School Completion Status
- Identity/Statement of Education Purpose

Applicants selected for verification must submit the required documents for the student, parents, and/ or spouse, if applicable, to the Financial Aid Office. The acceptable documentation for verification may be:

- IRS Tax Return Transcript for the appropriate tax year requested if the IRS Data Retrieval Tool was not used or could not be used, IRS Data Retrieval used but data changed after it was transferred from IRS, or other acceptable documentation (copy of tax return, W-2 form, Form 4868, signed statement, etc.) if applicable. IRS Data Retrieval may be used if IRS request fields) on the ISIR will have a value of "02" when the data is unchanged.
- A completed Verification Worksheet (dependent or independent) for one of the five verification groups with acceptable documentation. The verification worksheets are used to collect data such as household size, number in college, and other untaxed income and benefits

non-tax file information, high school completion status, identity/ statement of educational purpose.

The information submitted on the FAFSA is compared with the information contained in the official documents submitted to complete verification (tax returns or other acceptable documents and verification worksheets). The verification process can take four to six weeks from the time all required documents are received.

**Note:** Verification documents requested by the Financial Aid Department must be submitted within sixty (60) days of the request. If the requested information is not received within the sixty (60) days, the application for financial assistance will not be processed until verification is completed.

## Correction Process

Once all documents are received, corrections, if any are needed, will be made electronically. If the verification process results in a change in the expected family contribution (EFC), the student will receive an acknowledgment letter from the U.S. Department of Education with the corrected data. The student will also receive notification from the Financial Aid Office via their JSU web account. The electronic correction process takes 10-14 working days. Once the correction is received, the student will be awarded and notified.

## Conflicting Information

Conflicting information must be resolved prior to disbursing federal student aid to students. If conflicting information is discovered after disbursing federal student aid, the discrepancies must still be resolved, and the appropriate action must be taken based on specific program requirements. Conflicting information is separate and distinct from verification and must be resolved whether or not the student is selected for verification.

## Referrals to the Office of the Inspector General of the Department of Education

The Financial Aid Department will refer to the Inspector General of the Department of Education any credible information indicating that an applicant for Title IV Program assistance may have engaged in fraud or other criminal misconduct in connection with his or her application.

Examples of this information are:

1. False claims of independent student status;
2. False claims of citizenship;
3. Use of false identities;
4. Forgery of signatures or certification;
5. False statements of income; and
6. Other illegal conduct involving the administration of Title IV Programs.

## Recovery of Funds (Overpayments)

Jackson State University will make every effort to avoid overpayment of Federal funds to financial aid recipients. If a financial aid recipient receives an overpayment as a result of the verification process, the Financial Aid Department will eliminate the overpayment. The overpayment will be eliminated by adjusting subsequent financial aid payments during the award year or reimbursing the Federal Program account within sixty (60) days of the recipient's last day of attendance or the last day of the award year, whichever is earlier. **Applicants who owe a**

**repayment of federal funds are not eligible to receive federal aid until the overpayment is paid in full.**

## Standards for Satisfactory Academic Progress

Section 484 of the Higher Education Act (HEA), as amended, require students to maintain satisfactory academic progress (qualitative and quantitative) in the course of study he or she is pursuing in order to receive aid under the student financial assistance programs authorized by Title IV. These programs include the Federal Pell Grant (PELL), Federal Supplemental Education Opportunity Grant (SEOG), Teacher Education Assistance for College and Higher Education Grant Program (TEACH), Federal Work-Study, and Federal Family Educational Loan Program—William D. Ford Federal Direct Loan Program (Subsidized, Unsubsidized, and PLUS).

Jackson State University students must show measurable academic program towards a degree. Undergraduate students are required to earn a 2.00 Cumulative Grade Point Average in major courses of study in order to graduate.

Title IV recipients use a graduated scale that culminates in the graduation requirement in order to maintain satisfactory academic progress.

### Qualitative Standards

The following scale is used to determine whether qualitative satisfactory progress is being maintained for undergraduate students:

#### Undergraduate Satisfactory Academic Progress Table

Total JSU Hours Attempted	Minimum Cumulative GPA Required
0-29	1.50
30-59	1.75
60-89	1.80
90-107	1.90
108-128	2.00

### Quantitative Standards

Students are expected to complete the requirements for a degree within a reasonable time frame. Undergraduates pursuing a degree are allowed to attempt up to 150% of the published length of their academic program. For example, length of the program = 124 hours x 150% = 186 hours. This includes both Jackson State University attempted hours and hours transferred from other institutions.

Undergraduate students must make incremental progress (PACE) toward their degree; therefore, a minimum percentage of hours attempted must be completed. To meet this standard, students must complete 67% of hours attempted. To calculate PACE, the following formula is used:

**PACE**= Cumulative number of hours student successfully completed **divided by** Cumulative number of hours student attempted

Transfer credit hours accepted will count as hours attempted and completed and will be used in the formula to calculate the PACE rate for transfer students.

### Financial Aid Warning

Students who fail to maintain the above standards at the end of the evaluation period (semester) will be placed on Financial Aid Warning

and eligible for Title IV assistance for the subsequent payment period (semester).

## Financial Aid Suspension

Students who fail to complete the required hours and maintain the required cumulative GPA for two consecutive semesters will be placed on Financial Aid Suspension. Students who fail to bring the cumulative GPA into compliance and/or complete the required hours, at this point, will be considered as not maintaining Satisfactory Academic Progress (SAP) and will be ineligible for Title IV assistance.

Students placed on financial aid suspension may submit an appeal for reinstatement of aid due to mitigating circumstances that prevented them from maintaining Satisfactory Academic Progress (SAP).

Reinstatement of an Academic Suspension to attend the university does not reinstate financial aid.

## Grades

All JSU credit hours attempted are included in the Satisfactory Academic Progress (SAP) calculation. Grades of "F", "W" (withdrawn), and "I" (incomplete) are not counted as hours completed; however, they are counted as hours attempted. Also, all repeated hours are counted as attempted hours. Passed hours may only be repeated **once** for Title IV assistance.

Satisfactory Academic Progress (SAP) is measured at the end of each payment period (semester) including the summer term.

## Appeal Procedures

Students who fail to maintain Satisfactory Academic Progress (SAP) and have been placed on financial aid suspension may submit an appeal due to mitigating circumstances for reinstatement of aid. The appeal must clearly explain what mitigating circumstances caused the student to fail the standards and what has changed that will allow the student to make Satisfactory Academic Program (SAP) at the next evaluation. The appeal due to mitigating circumstances with supporting documentation must be submitted to the Financial Aid Department by the last published date of registration. The Financial Aid Appeals Committee will render a decision and the results will be posted to the student's JSU P.A.W.S. account and/or written notification approximately seven to ten days after the appeal is received.

## Mitigating Circumstances

Mitigating circumstances are unforeseen, special or unusual/ traumatic conditions which caused undue hardship. These circumstances may include serious illness or injury relating to the student, death or serious illness of an immediate family member, significant traumatic occurrence that impaired emotional and/or physical health, or other documented circumstances.

## Financial Aid Probation

Students will be placed on Financial Aid Probation for one payment period (semester) after a successful appeal. At the end of the probationary period (semester), the student must be making Satisfactory Academic Progress (SAP) or following an Academic Plan developed by the student's Academic Advisor that ensures the student can complete his educational program within a reasonable time frame.

## Reinstatement

Reinstatement of Financial Aid will be based on the strength of the appeal statement, documentation received, and the academic record.

Filing an appeal does not guarantee Financial Aid reinstatement. Financial aid will be reinstated for students who reestablish eligibility by maintaining the standards of Satisfactory Academic Progress (SAP).

The Financial Aid Office at Jackson State University does not discriminate against students on the basis of sex, handicap, race, color, religion or national origin, pursuant to the requirements of Title IX of the Educational Amendments of 1972, the Rehabilitation Act of 1973, and other applicable statutes.

# Scholarships

Jackson State University is devoted to recognized outstanding students whose academic credentials confirm their potential success as university students. Exceptional students may be eligible for various scholarships and honors. Scholarships and achievement grants are offered as an integral part of the recipient's total financial aid package. Policies concerning scholarships and achievement grants are determined by the Scholarship Committee. The amount of each award is determined by the scholarship or grant category. These awards shall not exceed the "cost of attendance" at the University. For individual students with scholarships from multiple sources, awards from sources shall be applied to the student's "Financial Aid Budget" first and the institutional award(s) shall be applied last. This policy shall not supersede any Federal, State, NCAA, or Athletic conference regulations. A current Free Application for Federal Financial Aid (FAFSA) is required for undergraduate scholarships. All applicants must be fully admitted to apply for scholarships in the scholarship portal <https://www.jsu.edu/scholarships/>.

## Categories of Scholarship and Tuition Waivers Freshmen Academic Scholarships

The Freshmen Academic Scholarship Program at Jackson State University is designed to recognize and reward freshmen students who have exemplified academic excellence. To demonstrate its commitment to talented students, the University annually awards a number of Academic Scholarships to qualified **applicants. These scholarships are awarded on a competitive basis consecutively, and are renewable at the end of each year for a four-year period for entering freshmen.** All scholarships are restricted to campus charges and two persons per room (double occupancy) housing. Scholarship funds do not pay for off-campus housing. All applicants must be admitted in a degree-seeking program. Scholarship applicants will be awarded **only one** scholarship from our academic scholarship program. If a recipient's institutional grade point average falls below requirements, the scholarship award will be canceled. The recipient must submit a Letter of Appeal by June 30 for scholarship reconsideration to the Undergraduate Scholarship Committee. Reinstatement will be based on the availability of funds. Selection of scholarship recipients is based on the following criteria:

1. Admission to the University
2. College Preparatory Curriculum Grade point average
3. Composite American College Test/Scholastic Aptitude Test Score
4. Availability of Funds

## Presidential Academic Scholarships

The Presidential Academic Scholarship Program at Jackson State University is designed to recognize and reward students who have exemplified academic excellence. Freshmen must have completed a college preparatory curriculum with a 3.50 GPA and a 28 or higher ACT test score or the SAT equivalent. The award will cover tuition, fees, room,

board, out-of-state fees, and books through the J.S.U. Vibe program (**campus charges only**). The Presidential Academic Scholarship is awarded on a competitive basis and is renewable at the end of each year for a four-year period for entering freshmen who maintain a 3.50 Institution Grade Point Average or higher and 30 credit hours by the end of the academic year. **Deadline: January 15th of each year**

## Provost Academic Scholarship

The Provost Academic Scholarship Program at Jackson State University is designed to recognize and reward students who have exemplified academic excellence. Freshmen must have completed a college preparatory curriculum with a 3.25 GPA and a 25-27 ACT test score or SAT score of 1200-1290. The award will cover full tuition, room, board (**campus charges only**). The Provost Academic Scholarship is awarded on a competitive basis and is renewable at the end of each year for a four-year period for entering freshmen who maintain a 3.25 Institution Grade Point Average or higher and 30 credit hours by the end of the academic year. **Deadline: January 15th of each year**

## Heritage Academic Scholarship

The Heritage Academic Scholarship Program at Jackson State University is designed to recognize and reward students who have exemplified academic excellence. Freshmen must have completed a college preparatory curriculum with a 3.0 GPA and a 23-24 ACT test score or SAT score of 1130-1190. The award will cover **tuition only**. The Heritage Academic Scholarship is awarded on a competitive basis and is renewable at the end of each year for a three-year period for entering freshmen who maintain a 3.0 Institution Grade Point Average or higher and 30 credit hours by the end of the academic year.

**Deadline: January 15th of each year**

## Medallion Award Scholarship

Medallion awards are awarded to entering freshmen. The purpose of this scholarship is to promote leadership. Candidates must have completed a college preparatory curriculum with a minimum GPA of 3.0 and a 21-22 ACT test score or SAT score of 1060-1120. The Medallion Award is \$2,000 **per academic year**. Scholarships are awarded on a competitive basis and may be renewed for 3 years. Limited awards are available. Students must maintain an institutional GPA of 3.0 or higher and 30 credit hours at the end of the academic year at JSU to be considered for renewal. **Deadline: January 15th of each year**

## Scholarships for Community/Junior College Graduates

The University awards, each semester, scholarships to students who have graduated from Community/Junior College and meet scholarship requirements. The selection of scholarship recipients is done on a competitive basis. The scholarship provision and criteria for selection are presented below:

### Phi Theta Kappa Academic Scholarship

Requirements:

- Community/Junior College Graduate with an Associates of Arts degree
  - Cumulative GPA of at least 3.50
  - Active member of Phi Theta Kappa
  - Minimum of 60 hours in transfer credits
- Covers:

- Full Tuition, Room, and Board (on-campus only)
- Non-resident fees
- Books through the JSU V.I.B.E. program
- Renewable - must maintain a GPA of 3.5
- 30 credit hours by the end of the academic year

### JSU Tiger Transfer Scholarship

Requirements:

- Community/Junior College Graduate with an Associates of Arts degree
  - Cumulative GPA of 3.0
  - Minimum of 60 hours in transfer credits
- Covers:
- Full Tuition Only
  - Renewable – must maintain a GPA of 3.0
  - 30 credit hours by the end of the academic year

Applications will open March 15th to June 1st

## Tuition, Expenses, and Fees

(Fees are subject to change upon approval of the Board of Trustees of the Mississippi Institutions of Higher Learning.)

### Tuition

Status	Cost
<b>Undergraduate Tuition</b>	
Full-Time Rate	\$4,345.00 Per Semester
Part-Time Rate	\$362.00 Per Credit Hour
Overload Rate	\$4,345.00 + \$362.00/Per Credit Hour
Out-of-State Fee	\$1,500.00/Semester
<b>Graduate Tuition<sup>1</sup></b>	
Full-Time Rate	\$4,345.00 Per Semester
Part-Time Rate	\$483.00 Per Credit Hour
Overload Rate	\$4,345.00 + \$483.00/Per Credit Hour
Out-of-State Fee	\$1,500.00 Per Semester
<b>Late Registration Fee</b>	\$150.00

<sup>1</sup> Tuition is charged based on the student's classification.

### Room

Building	Double Occupancy	Single Occupancy
Alexander East (Suite Style)	\$3,375.00	\$3,841.00
Alexander East (Traditional Style)	\$2,981.00	\$3,762.00
Alexander West (Suite Style)	\$3,375.00	\$3,841.00
Alexander West (Traditional Style)	\$2,981.00	\$3,762.00
Campbell College	N/A	\$4,684.50
North Suites (Single Occupancy Only)		



Campbell College South Suites(Single Occupancy Only)	N/A	\$4,684.50
John W. Dixon Hall	\$3,375.00	\$3,841.00
McAllister-Whiteside	\$2,710.00	\$3,762.00
Stewart Hall	\$2,981.00	\$3,762.00
Transition Hall	\$3,375.00	\$4,225.00
University Pointe (Single Occupancy Only)	N/A	\$4,030.00

## Board (per semester)

(All Access Meal Plans Are Mandatory for Residential Students.  
Commuter Student Meal Plans are optional.)

### Meal Plan Options

Meal Plan Option	Cost
<b>7DA1: Tiger Platinum</b>	
All-Access 7 Days \$250 Tiger Bucks	\$2,486.00
<b>7DAY: Tiger Gold</b>	
All-Access 7 Days \$100 Tiger Bucks	\$2,387.00
<b>5DAY: Tiger Silver</b>	
All-Access 5 Days \$100 Tiger Bucks	\$2,257.00
BLK1: Commuter Block 25	\$252.00
BLK2: Commuter Block 50	\$474.00
BLK3: Commuter Block 100	\$878.00
BLK4: Commuter Block 50 +	\$624.00
DBX Dining Dollars (Minimum Fee)	\$25.00

## Designated Fees

Fee	Cost
Add/Drop Fee	\$25.00
Testing Fee	\$15.00
Mailbox Rental	\$38.00
Transcript Fee	\$10.00
Return Check Fee	\$40.00
Graduate Admissions Fee	\$25.00
Printing Fee	\$10.00
Student Activity Fee	\$75.00
Photo ID Fee	\$30.00
Supervised Teaching Fee	\$75.00
Thesis Fee	\$75.00
Cap & Gown Fee	
Bachelor Package	\$60.00
Master/Specialist Package	\$90.00
Doctor Package	\$100.00
Parking Decal	\$40.00
Dissertation Fee	\$100.00
Capital Improvement Fees	\$52.50

## Expenses

The matter of expenses while attending Jackson State University is of importance to every student. It is difficult, however, to give specific

information about annual expenses, because they vary according to the nature of the curriculum, the place of residence (whether within Mississippi or outside), and the student's own habits and needs. It is the responsibility of the University to inform students of certain definite expenses they will have and of others that are likely to arise.

The information in this section concerning expenses and financial aid is applicable to all students enrolled at the University. The listing of fees or charges in this catalog does not constitute a contract between the University and the student. Because of rapidly changing conditions, it may become necessary to alter a fee structure before the next edition of the catalog is published. As a condition of registration, each student will pay the fees in effect at the time of registration.

## Room Application, Deposit, and Reservation Fee

### Application Procedure

Each student interested in on-campus housing must complete an online housing application. The Housing Application is available via the student's Personal Access to Web Services (P.A.W.S.) Account, under the student tab for Housing. Students will select the "THD: JSU Housing Self-Service link to complete the housing process. Students applying for housing for the first time will be required to pay a housing processing fee before the application can be processed. Continuing students applying for housing will be required to pay a room reservation fee before the application can be processed. The application fee and room reservation fee are **non-refundable**. The amount of the current application fee will be communicated to applicants by the Housing and Residence Life Department.

### Housing Application Fee

JSU Housing and Residence Life fees are assessed through the Housing Director (THD) Self-Service Portal. New and Transfer Students are required to pay a \$100.00 non-refundable housing application fee to reside on campus. This fee is valid for up to eight (8) semesters. New and Transfer Students can make all payments relative to housing on their JSU PAWS account via the THD: JSU Housing Self-Service portal.

Applications for student housing may also be obtained from the Housing Director (THD) Self-Service Portal. Completed applications must be accompanied by the required room reservation fee before a student is assigned housing. The Housing Director (THD) Self-Service Portal only accepts credit or debit cards for payments.

### Housing Room Reservation Fee

JSU Housing and Residence Life fees are assessed through the Housing Director (THD) Self-Service Portal. Returning Students are required to pay a \$75.00 non-refundable room reservation fee each year, which serves as a confirmation fee for participation in the selection process for University housing for the following academic year. Additionally, the \$75.00 non-refundable room reservation fee must be paid by all continuing students who desire to reside on campus. The room reservation fee must be paid through the Housing Director (THD) Self-Service Portal. Students must be registered as full time before the room selection process and not have an outstanding balance.

## Non-Resident Fee

Responsibility for registering as a non-resident student is placed on the student. If a student is in doubt as to his/ her legal residence and questions the decision of the Admissions Office, the matter should be referred to the Registrar for a decision before registration or payment of fees. (See Residence Status of Applicants under the section on Admissions.)

## Room and Board

Students in good standing who voluntarily withdraw from the University during the semester may receive an adjustment prorated on a weekly basis.

When students withdraw with seven or more days remaining in the room period and/or board period, they will receive adjustments at a rate calculated by dividing the charge for room and board by 14 weeks per semester. There will be no refund for fewer than seven days. When students withdraw with seven or more days remaining in the semester, please contact the appropriate office for a refund schedule.

## Late Registration Fee

Any student who fails to complete registration by payment of all fees during the official registration period is charged a later registration fee of \$150.00.

## Audit Fee

A fee of \$355.00 per hour will be charged to undergraduate students. Audit fees for courses taught on campus are the same as credit fees. Please note that fees are subject to change without prior notice.

## JSU Virtual Interactive Technology, Books, and Educational Supplies (V.I.B.E.) Fee

The JSU V.I.B.E. program allows students to rent or purchase textbooks at a reduced cost of *\$25.00 per Credit Hour*. The charge is posted directly to students' JSU Bursar account along with tuition and fees (University fees). It can be paid along with their University charges using financial aid or methods of payment. This program aims to improve the overall success of students by ensuring that the required course materials are available on the first day of class.

## Tuition Policy Adjustment

Tuition adjustments are based on the date that classes begin and the date a course(s) is dropped or on the date of withdrawal. Students withdrawing from the University before the close of a semester must complete an "Application for Withdrawal" form. This form can be picked up in the University Academic Advisement Center, which is located on the second floor of the library.

Financial aid recipients who withdraw or drop a course may not receive a refund as a result of the tuition adjustment. The refund will be credited to the appropriate source of fee payment which includes:

1. Federal Direct Loan;
2. Federal Direct Plus (parent and grad);
3. Federal Pell Grant;
4. Federal Supplemental Educational Opportunity Grant;
5. other Title IV aid;
6. other federal sources; and
7. state, private, or institutional aid.

## Amount Refunded

Student Withdraws	University	Due to Appropriate Source
Start of Semester to week 2	0%	100%
After Week 2	100%	0%

## Refund of Title IV Federal Financial Aid

The Higher Education Amendments of 1998 (HEA98) represent a major shift in the return of Title IV Federal Financial Aid when a student withdraws from the University. This change in policy went into effect at Jackson State University during the Fall 2000 semester. The policy governs all federal grant and loan programs (Pell, SEOG, and PLUS Loans), but does not include the Federal Work-Study Program.

In general, the new law assumes that a student "earns" approved/verified federal financial aid awards in proportion to the number of days in the term prior to the student's complete withdrawal. If a student completely withdraws from the University during a term, the University must calculate, according to a specific formula, the portion of the total scheduled financial assistance that the student has earned and is therefore entitled to retain, until the time that the student withdrew. If a student receives (or the University receives on the student's behalf) more assistance than they earn, the unearned funds must be returned to the Department of Education or parent's Federal PLUS Loans lenders. If a student's charges are less than the amount earned, and a refund is due, the student may be able to receive those additional funds. Students who have not completed the verification process are ineligible to receive any financial aid.

## Academic Regulations

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## Student Responsibilities

Jackson State University provides academic advising for all enrolled students. Students are responsible, however, for selecting and registering for courses necessary for reasonable progress toward the selected degree and for following all requirements for the major department and college in which they are enrolled.

Requirements refer to those policies in effect at the time the student is admitted. Effective with the 1991 fall semester, continuously enrolled students who fail to meet graduation requirements within seven years from the date of their first admission, must meet the requirements in effect at the time of their scheduled graduation rather than those which were in effect at the time of their entrance. A transfer student should follow the JSU catalog which was in effect at the time the student was admitted to an accredited institution provided the catalog is not more than seven years old at the time of the student's scheduled graduation. If so, then the student must meet the requirement in effect at the time of their scheduled graduation.

Students readmitted to Jackson State University whose circumstances are not addressed in the preceding provisions must meet the graduation requirements in effect at the time of their readmission.

Each student is responsible for knowing the academic regulations in the University catalog and the student handbook. Unfamiliarity with

regulations does not constitute a valid reason for failure to carry out this responsibility.

## General Philosophy on Academic Records

Jackson State University maintains a permanent academic record for each student enrolled. The Permanent Academic Record contains those grades received from course work completed at Jackson State University along with any transfer of courses and credits from any other accredited institution of higher learning that is used by to fulfill the degree requirements. All records are confidential. Academic records are considered the property of the University. Opportunities are provided for students to inspect and to control the release of information contained in their records in accordance with the Family Education Rights and Privacy Act (FERPA) of 1974.

The purpose of FERPA is to afford certain rights to students concerning their education records. The primary rights afforded are the right to inspect and review the education records, the right to seek to have the records amended, and the right to have some control over the disclosure of information from those records. The Act applies to all education records maintained by JSU which are directly related to a student. Records containing a student's name, social security number, or other personally identifiable information are covered by FERPA.

## The Retention and Disposal of Student Records

The Office of the Registrar and Records currently maintains academic records for students previously and currently enrolled. Academic records are stored in a hosted environment with ELLUCIAN located in the Division of Information Technology. Back-ups are stored in another hosted location managed by ELLUCIAN. Academic records that are not retrievable through computer access are stored on microfilm as well as a CD-ROM document imaging system located in the Registrar's Office.

Once the information contained in the academic record has been electronically reproduced, the hard-copy document may be destroyed. However, the contents of those records can be reproduced at such time that the student requests personal examination or disclosure of the academic record be forwarded to another institution of higher learning, a potential or present employer, or any person or persons so designated by the student. The student must make a written request to have the academic record released. The academic record is generated and printed on transcript security paper which prevents duplicating or printing an official copy outside the Office of the Registrar and Records.

## The Academic Year

The academic year is a minimum of 30 weeks divided into two semesters. In addition to the two semesters of the academic year, the University offers 2 summer sessions. Students are admitted each semester and summer term.

## Student Academic Load

The minimum load for a full-time undergraduate is 12.00 semester hours of credit. The maximum load is 19.00 semester hours of credit. An average undergraduate semester load is 15.00 semester hours of credit. To enroll for more than 19.00 semester hours, students must obtain special permission, prior to registration, from the Dean of the College in

which they are enrolled and the Provost/Vice President for Academic Affairs. The minimum load for a full-time undergraduate during each summer session is 6.00 semester hours of credit or 12.00 hours for the combined sessions. The maximum load is 19.00 semester hours for the whole summer term.

## Semester Hour

A semester hour is the term used to describe the number of credits received by the student for successfully completing a specific course. A semester hour is one fifty-minute period of lecture per week or a minimum of two fifty-minute periods of laboratory or studio work per week for one 16-week period or its equivalent. The semester hour credit given a course is not necessarily equal to the actual number of clock hours spent in class. This applies particularly to courses in the sciences and fine arts where laboratory or studio sessions are scheduled in addition to regular class lectures.

## Grades and Quality Points

Grade point averages are determined on a 4.00 scale. Students with cumulative grade point averages of 2.00 or better are in good academic standing. Those falling below the 2.00 average are placed on academic probation. Transfer grades are not counted in computing the Jackson State University grade point average.

Grade	Quality Points Per Credit
A-Excellent	4 quality points per credit
B-Good	3 quality points per credit
C-Fair	2 quality points per credit
D-Poor	1 quality point per credit
F-Failure	0 quality points per credit
S-Satisfactory progress	4 quality points per credit
U-Unsatisfactory progress	0 quality points per credit
P-Passed	0 quality points
NP-Failure	0 quality points
IP-In Progress (Graduates only)	0 quality points
R-Repeated Course	0 quality points
I-Incomplete	0 quality points
W-Withdraw	0 quality points
AU-Audit, No Credit	0 quality points
NC-Non-punitive failing grade	0 quality points
PX-Pass equivalent of B, C, or D	0 quality points
X-Administrative grade issued when a drop or withdrawal did not properly occur	0 quality points per credit
Z-Grade Unknown	0 quality points

**W** Authorized Withdrawal—indicates that a student has withdrawn from class during the first 25 days of classes where no basis for evaluation has been established.

**WP** Authorized Withdrawal, Passing—indicates that a student has withdrawn from the University after the first 25 days of classes, but before the last 10 days of classes during a semester or summer session. The student was making satisfactory progress at the time of withdrawal as recorded by the instructor of record.

**WF** Authorized Withdrawal, Failing—indicates that a student has withdrawn from the University after the first 25 days of classes, but before the last 10 days of classes during a semester or summer session. The student was making unsatisfactory progress at the time of withdrawal as recorded by the instructor of record.

**AU** Audit—indicates that a student registered on an audit basis for which no letter grade or credit hours are given. The course will be recorded on the transcript with the notation of “AU.”

- Students are permitted to audit courses provided they have approval from their college dean and have been processed properly through the Office of the Registrar and Records.
- Auditors do not receive grades and are not required to participate in course examinations. Otherwise, conformity to regular classroom decorum is the same as that required for all students. Students choosing to audit courses must be admitted to the University, enroll in the courses using current registration procedures and pay the same tuition fee as regular enrollees. The course will appear on the student’s transcript with the notation of “AU.” Students may adjust audit status only during the scheduled dates for registration. The deadline for withdrawing from an audit course is the same as the withdrawal for other courses.

It is the responsibility of the student to initiate the request for an I-Incomplete grade. Exceptions to this general student responsibility will only be considered in extenuating, documented circumstances, or for university sanctioned and administrative purposes. To initiate the request for an I-Incomplete grade, the student shall complete a Request for Incomplete Grade Form, available on the registrar’s office website, and attach the appropriate documentation. The form is submitted to the course instructor who will review the request and supporting documentation for a determination. If the decision is to assign an I-Incomplete grade, the instructor is responsible for completing a Contract for Incomplete Grade Form. The form must indicate the assignments/assessments to be completed by a due date and shall be signed by the instructor, student, department chairperson, and academic college dean. The original Request for Incomplete Grade Form and the Contract for Incomplete Grade Form shall be filed and maintained in the student’s academic department and copies shall be submitted to the academic college and to the Division of Graduate Studies (for graduate students).

To assign an I-Incomplete grade, the course instructor submits an I-Incomplete grade for a given student during final grade submission and indicates the alternative grade (i.e., the grade that will be assigned should the course not be completed). If an I-Incomplete grade has not been changed by the last day of classes of the next semester (excluding summer term), it automatically defaults to the alternative grade (or an F, if no alternative grade is indicated).

1. I-Incomplete grades assigned in a Fall semester or Fall Intersession must be resolved by the last day of classes of the next Spring semester.
2. I-Incomplete grades assigned in a Spring semester, Spring intersession, or Summer semester must be resolved by the last day of the next Fall semester. Upon completion of the work, a final grade for the student will be submitted by the instructor using the online grade change process.

In order for the I-Incomplete grade to be approved by Academic Affairs and processed by the Office of the Registrar and Records, the Incomplete Grade Contract, which details the work to be completed and the deadline for completion must be emailed to [academics@jsums.edu](mailto:academics@jsums.edu) and

registrarsoffice@jsums.edu when the online grade change is completed by the instructor.

Grades submitted to the Office of the Registrar and Records by the University instructor of record are final and official. A final grade is based on the instructor's evaluation of course work completed as of the official end of the course. Final grades should not be changed as the result of the submission of additional work or the repeating of examinations after the official conclusion of the course for the purpose of improving the final grade. However, a course instructor may change a reported grade if the original was incorrectly assigned due to clerical or computational error, if the student has been successful in a grade appeal, or if a student meets the requirements for the removal of an incomplete grade (I-Incomplete grade). Grade corrections due to clerical or computational errors must be changed within 30 calendar days of its issuance. Grade changes resulting from a grade appeal must be changed within 30 calendar days of the conclusion of the appeal. Any grade changes made after the 30 calendar day period related to clerical or computational errors or a grade appeal must have the written approval of the Provost of Academic Affairs. Incomplete grades assigned in a Fall semester or Fall Intersession must be resolved and the final grade must be entered by the last day of classes of the next Spring semester. Incomplete grades assigned in a Spring semester, Spring intersession, or Summer semester must be resolved and the final grade must be entered by the last day of the next Fall semester.

All University faculty, staff, students, student organizations, and volunteers are expected to comply with all federal and state laws, the Mississippi Institutions of Higher Learning policy and bylaws, and University policies, including but not limited to this stated policy to help ensure that the University maintains the integrity of grades and academic records, as expected by the Southern Association of Colleges and Schools Commission on Colleges.

## Incomplete Grade

When special or unusual circumstances occur, the instructor may postpone assignment of the student's final grade in a course by use of an Incomplete grade (i.e., I grade). The I grade may be given only when: the student (a) has completed approximately seventy-five percent of the course requirement but is unable to complete the class work and/or take the final examination because of illness or another extraordinary reason; and (b) has completed work that is of a passing grade; and (c) in the instructor's judgment, can complete the required work without repeating the course.

Provided these conditions are met, the student may request an I grade.

Upon the student's formal request, the instructor may elect to give an I grade to allow the student additional time to complete work missed due to extenuating circumstances but such an I grade does not guarantee a passing grade in the course.

An I grade shall not be assigned in instances solely due to student's procrastination, poor performance, or outside circumstances not related to the student's course load or unexplained absences. An I grade shall not be assigned for thesis or dissertation hours.

To assign an I grade, the course instructor submits an I grade for a given student during final grade submission and indicates the alternative grade (i.e., the grade that will be assigned should the course not be completed). If an I grade has not been changed by the last day of classes of the next semester (excluding summer term), it automatically defaults to the alternative grade (or an F, if no alternative grade is indicated).

- a. An I grade assigned in a Fall semester or Fall Intersession must be resolved by the last day of classes of the next Spring semester.
- b. An I grade assigned in a Spring semester, Spring intersession, or Summer semester must be resolved by the last day of the next Fall semester.

Under extraordinary circumstances that may preclude a student from completion of course requirements during the allotted timeline, an extension of the timeframe for resolution of the I grade may be considered and/or permitted. The student must initiate the petition in writing with the appropriate documentation. This petition must be accompanied by a letter of justification from the instructor of record. The petition must be endorsed by the chairperson of the student's academic department and approved by the dean of the academic college before it is submitted to Academic Affairs. The approved extension will be on file with the student's department, academic college, the Division of Graduate Studies (for graduate students), Academic Affairs, and the Office of the Registrar and Records.

Unresolved I grades assigned to a student prior to Fall 2004 are considered permanent I grades. If a student has an extraordinary circumstance that precludes the student from completion of course requirements, the dean of the student's college may authorize that the I grade become permanent. Such unusual circumstances might include, but would not be limited to, withdrawal of the student from the university because of prolonged medical problems, or death or resignation of the faculty member.

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All University faculty, staff, students, student organizations, and volunteers are expected to comply with all federal and state laws, the Mississippi Institutions of Higher Learning policy and bylaws, and University policies, including but not limited to this stated policy to help ensure that the University maintains the integrity of grades and academic records, as expected by the Southern Association of Colleges and Schools Commission on Colleges.

## Academic Honesty

Students must be honest in all their endeavors of academic matriculation at Jackson State University. Cheating, plagiarism, or any other act of academic dishonesty will not be tolerated. In cases where evidence is sufficient to establish that a student cheated or was otherwise dishonest in completing a test, paper, report, etc., the penalty will range from repeating the assignment to expulsion from the University.

Procedures:

- The instructor discusses with the student any evidence of dishonesty with tests, assignments, or other requirements and the resulting consequences (e.g., based on documented sound evidence, the instructor may require the student to repeat the assignment, complete an alternate assignment, or record a reduced grade of "F" for the assignment; based on circumstantial evidence, the Instructor may talk with the student about the importance of honesty in the academic environment).
- The student is expected to accept established consequences for acts of dishonesty and hopefully, pledge to refrain from committing any further acts of dishonesty. In the face of circumstantial evidence, it is expected that the student will show the instructor respect in discussing the matter and come to understand the importance of avoiding the appearance of dishonesty.

- If the student disagrees with an instructor's charge of academic dishonesty and the subsequently imposed penalty, the student must make a written appeal to the department chair for relief.
- The chair, in consultation with appropriate individuals or through a committee structure, secures documentation of dishonesty, determines if the charge is valid and/or the penalty is reasonable, or if the evidence is suspect and the charge and penalty should be dropped. The chair submits a written response to the student within ten days.
- If the student disagrees with the chair's decision, the student will submit a written appeal to the college dean within ten days.
- The dean provides the final written response within ten days, which may be done with committee input and/or in consultation with the Vice President for Academic Affairs.
- Students who commit repeated acts of dishonesty may be referred to The Division of Student Life with a recommendation for suspension from the University.

**Note:** In any case of alleged academic dishonesty, the disciplinary process should be initiated within ten days and handled in a professional manner.

## Classification of Students

Students are classified according to the total number of hours earned.

Year	Hours
Freshman	0-29 semester hours
Sophomore	30-59 semester hours
Junior	60-89 semester hours
Senior	90 or more semester hours

Students may also be classified by class load (full-time or part-time), objective (degree or special non-degree), and by year or class.

## By Class Load

A student is a full-time undergraduate student if they carry 12.0 or more semester hours of credit per semester. The full-time credit hour load in a ten-week summer term is twelve (12) semester hours of credit. A student may earn six (6) or more semester hours each five-week summer session.

## By Objective

A degree student is one whose immediate educational objective is such that their program consists entirely of work normally creditable toward a Jackson State University degree.

A **non-degree** student is one who is not pursuing a degree program. Such students are either students who have not declared a major or students and graduates with previous college credit:

1. who do not want degree status;
2. whose applications for degree status are incomplete;
3. who are not eligible for degree status;
4. who are working towards teacher certification;
5. who are workshop applicants; or
6. who are visiting (transient) summer school students.

A visiting (transient) student is one who is enrolled at the University with the sole intention of using credits earned toward graduation elsewhere.

## The Course Numbering System

- Courses numbered 001-099 include developmental and non-credit courses.
- Courses numbered 100-199 are freshman-level courses.
- Courses numbered 200-299 are sophomore-level courses.
- Courses numbered 300-399 are junior-level courses.
- Courses numbered 400-499 are senior-level courses.
- Courses numbered 500 and above are graduate-level courses.

## Registration

Students must be admitted officially and pay the fee assessed in order to complete courses at Jackson State University. Registration dates and instructions are shown in the University Calendar. Students are required to report on time for registration and to follow the registration schedule. Students who register late are charged a fee of \$150.00 in accordance with the date on the academic calendar. In no case is credit allowed for a course in which the student is not officially registered. Students are encouraged to register and pay fees during the registration period.

## Withdrawal from the University and Class

A student is permitted to drop a course without academic penalty up to and including approved dates published in the Academic Calendar (<https://www.jsums.edu/academicaffairs/files/2024/10/Academic-Calendar-2024-2025-Revised-9-24-24.pdf>) and on the Registrar's website at [www.jsums.edu/registrar/](http://www.jsums.edu/registrar/) (<http://www.jsums.edu/registrar/>). After the deadline, a student may withdraw from a course with permission of the academic advisor at which time the student will receive a grade of "W". The withdraw grade ("W") will not lower the GPA, but may impact financial aid and an excessive record of withdrawals may reflect poorly on students' application for employment or graduate school.

A student completely withdrawing from the University prior to the deadline for dropping classes without academic penalty will not receive any grades. His or her record will reflect the date of the withdrawal. A student withdrawing after the deadline for dropping courses without academic penalty will receive a grade of "W". Any courses completed before the withdrawal is processed will be awarded grades on the official transcript.

A university transcript is a legal document that provides an accurate account of academic performance. Therefore, transcripts should only be altered if there is a compelling rationale for doing so.

A student who wishes to withdraw from the University during any academic term will begin the process by completing the Student Withdrawal Survey. To access the Student Withdrawal Survey through JSU PAWS, follow the steps below:

- Step 1 Visit the Jackson State University website at [www.jsums.edu](http://www.jsums.edu)
- Step 2 Click on PAWS located at the top of the page
- Step 3 Sign in using your PAWS User ID & PIN
- Step 4 Click on the Student tab and scroll down to the bottom of the page.
- Step 5 Click to complete the Withdrawal Survey
- Step 6 Complete the University Withdrawal Request Form Once the survey has been completed, the formal withdrawal process can

begin by completing a withdrawal form and discussing your reasons regarding a withdrawal in the following locations:

Students Located On-Campus Residential and Commuters:  
University Academic Advisement Center H.T. Sampson Library, 2nd Floor 601-979-2127 studentsuccess@jsums.edu (<https://jsums-public.courseleaf.com/undergraduate/academic-regulations/withdrawal-university-class/studentsuccess@jsums.edu>)

Student Athletes: Tiger Center for Student-Athlete Development and Academic Services H.T. Sampson Library, 1st Floor 601-979-8880

Online Degree Students: JSUOnline jsuonline@jsums (<https://jsums-public.courseleaf.com/undergraduate/academic-regulations/withdrawal-university-class/jsuonline@jsums.edu>).edu 601-979-0779

Graduate Students: Graduate School Henry P. Jacobs Administration Building, 1st Floor 601-979-2455

## Mid-Term Grade Reporting

At the end of the designated mid-term examination week, instructors will submit mid-term grades via the BANNER Student System for all students. Mid-term grades can be viewed through the University website: [www.jsums.edu](http://www.jsums.edu) (<http://www.jsums.edu>) and clicking Thee Portal. The instructor will not have the option to assign an "I" grade during this process.

## Schedule Changes (Course Add/Drop)

The Academic Calendar specify dates for students to add/drop courses. All students must contact their respective advisor in the University Academic Advisement Center, *JSUOnline*, or Tiger Center for Student Athlete Development and Academic Services to discuss and complete the Add/Drop form. Juniors and seniors are highly encouraged to consult with their major department chair or faculty mentor in their department before dropping a course. Once the Add/Drop form is submitted within the timeframe indicated on the Academic Calendar, the requested approved changes will be processed by the respective advisor.

The following weeks/days are designated as Drop/Add:

- Fall & Spring (8 Weeks) – First week of class/5 Business Days
- Fall & Spring (16 Weeks) – First week of class/5 Business Days
- Intersessions – First three days of class/3 Business Days
- Summer (4 Weeks) – First week of class/5 Business Days
- Summer (8 Weeks) – First week of class/5 Business Days

## Name and Address Change

A student who has had a change in name after their last registration must provide the University with the appropriate documentation (e.g. marriage license, social security card, court document, etc.) which substantiates the legal name change. This must be submitted to the Office of the Registrar and Records prior to the student's next registration. Registration under a name different from that used in the student's last enrollment cannot be accomplished without appropriate documentation, which becomes a part of the student's permanent file. All grade reports and transcripts are issued under the student's legal name as recorded in the Office of Undergraduate Admissions and Recruitment and the Office of the Registrar and Records. A student who has had a change of address after their last registration must provide the University the new address by completing the appropriate form. This form may

be secured from the Office of the Registrar and Records. Students may submit the form electronically, using the JSU email account, to [studentrecords@jsums.edu](mailto:studentrecords@jsums.edu) for processing.

Additionally, students may use the Personal Access to Web Services (P.A.W.S.) portal to access the "Update Addresses and Phones" link to make edits and additions to the address on file. All transcripts will be mailed to the location of the new address.

**Note:** Students receiving payroll checks must file a separate request with the Human Resources Office.

## Scholastic Recognition

Scholastic recognition is awarded to students who demonstrate high academic scholarship and achievement.

### The President's List

The President's List is composed of those students who, during a regular semester, complete a minimum of fifteen (15) semester hours with a semester grade point average of 4.00.

### The Dean's List

The Dean's List is composed of those students who, during a regular semester, complete a minimum of fifteen (15) semester hours with a semester grade point average of 3.00 to 3.99.

### Graduation with Distinction

A student with an institutional cumulative grade point average between 3.20 and 3.49 is graduated cum laude; between 3.50 and 3.79, magna cum laude; and between 3.80 and 4.00, summa cum laude. To graduate with distinction, the student must have acquired the above grade point averages at the end of the semester prior to the semester of graduation. A transfer student is eligible to be considered for honors provided:

1. the student has earned a minimum of 48 semester hours at Jackson State University prior to the semester of graduation;
2. the student maintains a 3.20 or higher grade point average for the course work completed at Jackson State University. Recognition is noted on the student's diploma and final transcript based upon the final degree audit.

Transfer students must achieve the specified quality point average on all hours attempted at Jackson State University. Quality points from other institutions are not included in computing grade point averages for honors. Students who already hold a baccalaureate degree are not eligible for this distinction.

## Class Attendance Policy

### Objective

To ensure that students attend all class sessions and activities, except in cases of extreme cause, to maximize their learning from the quality instructional experience afforded at the University.

### Statement

Students at Jackson State University must fully commit themselves to their program of study. One hundred percent (100%) punctual class attendance is expected of all students in all scheduled classes and activities. Instructors keep attendance records and any absence for

which a student does not provide written official excuse is counted as an unexcused absence. Students must understand that even with an official excuse of absence, they are responsible for the work required during their absence.

Students may be officially excused from class for attendance at University approved functions, provided the sponsor properly executes a Student Affairs Leave Form. Such excuses shall be accepted by the instructor. Students may also be officially excused by the Dean of their College or the Vice President for Student Affairs for certain campus activities.

Students requesting excuses for absences due to illness or other emergency situations will be issued a Request for an Excused Absence. The Request for an Excused Absence Form will be issued only after proper documentation stating the reason for non-attendance has been submitted and verified. (Proper documentation includes doctor's excuse, official court document, etc.).

### Remaining on a Course Roster

To remain on a course roster beyond the attendance purge date, students have to demonstrate that they are participating and academically engaged in their courses. Academic engagement, as defined by the U.S. Department of Education, is active participation by a student in an instructional activity related to the student's course of study that includes, but is not limited to:

- Attending (physically or online) asynchronous class, lecture, recitation, or field/laboratory activity where there is an opportunity for interaction between the instructor and students
- Submitting an academic assignment
- Taking an assessment or exam
- Participating in a tutorial, webinar, or other computer-assisted instruction that is interactive
- Participating in a study group, group project, or online discussion assigned by the institution
- Interacting with an instructor about academic matters

### Academic engagement is not:

- Logging on to an online class or tutorial without further participation
- Emailing the instructor with a promise to participate and nothing more
- Utilizing university services such as housing, meal plan, counseling, advising, etc.

Within the first 10 calendar days of the semester, all instructors are required to track students' attendance and engagement in all courses. A student is considered as attending an online course (or the online portion of a face-to-face or hybrid course) by demonstrating participation in class or otherwise engaging in an academically related activity. To accurately report attendance, all instructors are required to incorporate at least one participation activity in each course within the first two weeks of the semester. Examples of such activities include but are not limited to:

- Contributing to an online discussion or text chat session

- Submitting an assignment or working draft; working through exercises
- Taking a quiz or exam
- Viewing and/or completing a tutorial
- Initiating contact with a faculty member to ask a course-related question

## Academic Standings

### Good Academic Standing

Students with a cumulative grade point average of 2.00 or better are considered in good academic standing. A minimum grade point average of 2.00 on the 4.00 scale is required by all students to meet degree requirements. In many cases, a higher minimum grade point average specified by colleges within the University is required for graduation.

### Academic Warning

A student is placed on academic warning when the student's cumulative grade point average is less than 2.00. The student may be removed from this status when the cumulative grade point average of 2.00 or better is achieved. Students who are on academic warning are encouraged to take no more than 13 hours per semester and to take no more than 6 hours during the summer term. They must adhere to the following suggestions to improve their grade point average:

### Academic Probation

A student whose cumulative grade point average falls below the minimum required for retention is placed on probation for the following semester.

### Academic Suspension

A student on probation who does not earn the academic average required for retention for a period of two semesters is placed on suspension for one academic year. An appeal for waiver of suspension because of unusual circumstances should be made through the student's academic departmental advisor, and college dean. The final decision is made by Academic Affairs.

## Retention

As of Fall of 1992, the University recognized that undergraduate students can progress towards degree and graduation with the standards below.

Grade Point Average Hours (Including Transfer)	Minimum Cumulative GPA Required
0-29	1.50
30-59	1.75
50-89	1.80
90-107	1.90
108 and above	2.00

For retention purposes, GPA hours will include credits taken at Jackson State University and credits that have been accepted from other institutions. The grade point averages for retention will be computed only on GPA hours at Jackson State University. GPA hours are the number of credit hours used in calculating the grade point average (i.e., Grades of A, B, C, D, F). In many cases a higher minimum grade point average specified



by colleges within the University must be maintained in addition to the requirements listed above.

## Reinstatement

Students who are suspended for poor academic performances may be readmitted on probation. A student desiring reinstatement must send a formal letter of application to the Admissions and Credits Committee. The letter of application must include convincing evidence that the student's cause for making poor academic progress has been corrected or that the extenuating circumstances which affected academic progress have been corrected. The student's letter of application must be received at least twenty (20) days prior to the semester or summer term for which the student seeks re-admission. The Admissions and Credits Committee will inform the student of the final disposition of the letter of application.

## Academic Second Chance

An undergraduate student previously enrolled at Jackson State University who has not been enrolled in any post-secondary education institution since leaving Jackson State may be eligible for matriculation under the Academic Second Chance Policy. The Academic Second Chance option must be requested within the first or second semester of re-admission. Student may use this option **one** time.

1. Student must have been separated from the University for a minimum of twelve (12) consecutive months.
2. All academic credit hours and grades earned during previous enrollment at Jackson State will remain on the student's transcript:
  - a. Academic credit hours with grades of "C" and above may be used to meet degree requirements.
  - b. Academic credit hours with grades of less than "C" will not be used in the computation of the student's grade point average.
3. Students are required to follow the current curriculum at the time of re-admission.
4. Student Responsibilities:
  - a. Obtain an official notification of re-admission from the Office of Undergraduate Admissions and Recruitment.
  - b. Where appropriate, verify financial aid status in Financial Aid.
  - c. Obtain an application for Academic Second Chance from the Office of the Registrar and Records.
  - d. Develop a program of study in consultation with an advisor in your major department.
  - e. Complete the application for Academic Second Chance.
  - f. Obtain signature of department chair in major area, major academic advisor, and the college dean. The inclusion of signatures from the chair, advisor, and dean indicates approval of student being granted the "Academic Second Chance."

## Academic New Start

An undergraduate student previously enrolled at Jackson State University who has not been enrolled in any postsecondary education institution since leaving Jackson State may be eligible for matriculation under the Academic New Start Policy. The Academic New Start option must be requested within the second semester of re-admission. Student may use this option **one** time.

Under this Option:

1. Student must have been separated from the University for minimum of sixty (60) consecutive months.

2. Academic New Start option must be requested within the second semester of re-admission after a minimum of twelve (12) semester hours have been completed with a minimum cumulative grade point average of 2.0.
3. All academic credit hours and grades earned during previous enrollment at Jackson State will remain on the student's transcript but will not be counted toward degree requirements.
4. Students are required to follow the current curriculum at the time or re-admission.
5. Student Responsibilities:
  - a. Obtain an official notification of re-admission from Undergraduate Admissions.
  - b. Where appropriate, verify financial aid status in Financial Aid.
  - c. Obtain an application for Academic New Start from the Office of the Registrar and Records.
  - d. Develop a program of study in consultation with an advisor in your major department.
  - e. Complete the application for Academic New Start.
  - f. Obtain signature of department chair in major area, major academic advisor, and the college dean. The inclusion of signatures from the chair, advisor, and dean indicates approval of student being granted the "Academic New Start."

## Repeat a Course Policy

For all undergraduate students at Jackson State University who repeat a course(s), the highest grade earned will be used in calculating the grade point average. However, the semester hours for the repeated course will remain as a part of the attempted hours.

1. To repeat a course in which a low grade has been recorded, a student must register for the same course.
2. A course repeated for the purpose of replacing a low grade must be taken at Jackson State University.
3. The grade for the most recently repeated course will be computed in the cumulative grade point average. However, all grades earned will be retained on the student's official transcript.

## Student Academic Grievance Procedure

The objective of the Grievance Procedure is to create and sustain an academic environment that permits students to freely express concerns or reveal complaints about their education and the educational process and to have their concerns and complaints addressed swiftly and forthrightly. Students enrolled at Jackson State University may register a concern or complaint about any academic regulation, the instructional program, delivery of the program, grades received, the academic advisement system, or any other matter related to academic affairs, without any adverse action for expressing the concern or filing the complaint. Concerns and complaints will be received, explored or investigated, and responded to in a fair and timely fashion, though students should understand that the final response by the University may not always be the response that they prefer.

## Procedures

*Classroom Concerns or Complaints* (e.g., grades received; improper dismissals; unprofessional behavior):

- Student documents the concern or complaint in writing to the instructor.
- Instructor provides a written response to student's concern or complaint (allowing up to five (5) days if investigation is required).
- Complaints unresolved by the instructor or for which the response is unacceptable must be described in writing by the student and submitted to the department chair.
- The chair properly logs and investigates the matter and provides a written response to the student within ten (10) days.
- Issues that are still unresolved must be submitted by the student to the college dean.
- The dean provides the final written response within ten (10) days, which may be done with committee input and/or in consultation with the University Ombudsperson.

*Other Academic Concerns or Complaints* (e.g., academic advisement or academic regulations):

- Student documents the concern or complaint in writing with the academic advisor.
- The advisor provides a written response (allow up to five (5) days if an investigation is needed), or refers it to the appropriate official/body, e.g., Department Chair, Director of the Academic Advisement Center (Freshmen and Sophomores), or Academic Standards Committee, for response within 20 days. The appropriate official/body returns the response to the advisor and the advisor returns it to the student.
- Unresolved concerns or complaints must be submitted in writing by the student to the Dean or Vice President for Student Success (Advising/ Freshmen and Sophomores).
- Dean or Vice President for Student Success provides a written response within ten (10) days, which may be done with committee input and/or in consultation with the University Ombudsperson.
- If the complaint remains, the student will submit it to the Provost and Vice President for Academic Affairs for a final response.

## Transcripts

A university transcript is a legal document. Transcript requests are made in writing and directed to the Office of the Registrar and Records. Transcripts may also be requested online at [www.jsums.edu/registrar](http://www.jsums.edu/registrar) (<http://www.jsums.edu/registrar/>). The transcript is a student's complete and permanent academic record. It shows all undergraduate and/or graduate work completed, results, and degrees awarded at JSU. In addition, a summary of transfer credit is listed and detailed course work may be included. After the last enrollment period, transcript totals are shown. The Office of the Registrar and Records will not release transcripts received from other schools and colleges.

## Transfer of Credits

1. A maximum of 62 semester hours of credit for courses completed at the freshman and sophomore levels will be allowed from a community/junior college toward degree requirements. Only college courses in which the grade is "C" or higher will be accepted. Jackson State University does not accept transfer courses with "D" grades.
2. Jackson State University does not accept for credit courses that are classified as remedial or developmental.
3. Students ordinarily receive no transfer credit for courses designed specifically for technical and vocational career programs. The chair of

the students' program concerned should be consulted on questions pertaining to the transfer of credits.

4. After earning 62 semester hours from any accredited institution, a student may not take additional courses at a community/junior college and have them applied toward a degree from Jackson State University.
5. Any course taken for credit at another institution while a student is enrolled at Jackson State University must have prior written permission of the student's department chair and dean in order for that credit to be accepted toward the fulfillment of degree requirements at Jackson State University.
6. Grades earned in transfer courses are shown on the permanent record at Jackson State University but will not be used in calculating Jackson State University grade point averages. Transfer credits have a separate grade point average and will be used to calculate the overall GPA and includes the JSU credits plus the transfer credits combined to calculate the overall grade point average.
7. Transfer grades are not used to calculate honors designations at graduation.
8. Normally, Jackson State University allows full credit for a course taken at another accredited institution if a comparable course is offered at Jackson State University. The final evaluation of transcripts is done by the department responsible for the program of study.
9. All students are required to have the last session of residence or its equivalent at Jackson State University and to complete satisfactorily a minimum of 30 semester hours of courses before graduation.
10. A maximum of 93.0 semester hours is transferable from an accredited four-year institution.
11. A transient student (temporary student who wishes to transfer credits to their home institution) or a student who wishes to transfer to another institution must request an official transcript of credits to be issued to that institution in accordance with the transcript policy.

## Major

A major is an orderly sequence of specialized courses within an academic discipline that leads to a baccalaureate degree. The requirements for majors vary and are found in the specific academic units responsible for the major. Majors should include a minimum of 30.0 semester hours and usually range from 30-39.0 hours. (These ranges may vary in some degree programs because of national accreditation or professional certification requirements.) A minimum average of "C" in the major is required for graduation in specific disciplines. In addition, the academic unit responsible for the major may require the student to repeat any major course where a grade below "C" was earned. Some majors are subject to additional admission requirements and enrollment limitations.

## Areas of Concentration

Various areas of concentration are available and are indicated in the sections of the Catalog within the academic units. A concentration generally ranges from 18-21 hours of courses approved by the department in which it is offered.

## Graduation Requirements

Minimum requirements for all undergraduate degrees offered by the University are listed below. In addition, students must meet the specific degree requirements as established by the college or department in which the degree is offered. A minimum of 120-124 semester hours

is required for all baccalaureate degrees with the exception of music education and engineering. The curricula published in the catalog of entry specifies the requirements for the degrees offered at the University. To complete degree requirements an undergraduate student must:

1. Complete a minimum of 120.0-128.0 semester hours of work.
2. Satisfactorily complete the curricular requirements in the major field of study.
3. Earn a cumulative academic average of not less than 2.00 in all courses.
4. Earn a cumulative average of not less than 2.00 in all courses attempted in major field.
5. Complete, in residence, no fewer than 30.0 semester hours of upper-level course work required in major field unless permission is granted otherwise.
6. Complete, in residence, the final semester's course work, unless permission is granted otherwise.
7. Take all examinations required by the college responsible for the student's major.
8. Student must file an "Application for Degree" electronically via the Online Graduation Clearance Process. Students seeking graduation for a past conferral date must complete a paper application found online at [www.jsums.edu/registrar](http://www.jsums.edu/registrar) (<http://www.jsums.edu/registrar/>). Graduation application deadlines are found on the published Academic Calendar.
9. Every undergraduate student who enrolls as a first-time freshman student is required to complete 120 hours of community service for graduation. Students who transfer with at least 1 academic credit from an accredited university/college are required to complete 60 hours of community service. To ensure that all requirements are met in a timely manner, it is suggested that students complete a minimum of thirty (30) hours of community service each academic year. Students can begin to work toward completion of service hours at the beginning of their first year of enrollment.
10. Degrees are awarded at the end of the term in which requirements are completed.

**Note:** Degrees may be awarded and posted to the students P.A.W.S. account once they complete all academic requirements, however diplomas and transcripts will be issued once all financial obligations are met.

## Graduation Ceremony

Commencement exercises are held at the end of the spring semester and at the end of the fall semester.

Degrees are also awarded at the end of the summer semester but there is no commencement exercise held. Diplomas are mailed in August to summer degree candidates. Degree candidates are invited back to the following fall exercise if they desire to be a part of commencement exercises.

## Double Major Requirements

Students may pursue a double major but must meet the requirements of both disciplines. To accomplish this goal and meet the minimum number of credits required students must be in close communication with advisors from both majors. Only one degree (BA, BBA, or BS) will be awarded. Both majors must be completed at the same time and from the same catalog. The transcript and diploma will list the degree and each major.

Student must be admitted to each department in which a double major is being sought:

- Students must submit a separate Application for Double Major along with other required documents to each respective department.
- Students must return completed and signed applications to the Office of the Registrar and Records.
- Degree plans must be developed for the student and must be approved by a faculty advisor and chairperson from each of the respective colleges and major.
- Students must meet requirements and follow procedures of each department and college.

Degree requirements for each major must be met simultaneously. (Meeting the requirements of double majors may lengthen completion time of academic programs.) Students must maintain a grade point average of 2.00 or higher in each degree program. Students may withdraw from this arrangement at any time prior to the final semester in which the degree is to be awarded by submitting a Request to Remove Minor, Concentration, Certificate or Second Major Form to the Office of Registrar and Records.

## Second Baccalaureate

Admission to the second baccalaureate degree program is subject to approval by the chairperson of the department and dean of the college in which the degree is being sought. Students who wish to obtain a second baccalaureate degree from Jackson State University must meet the following criteria:

- Gain admission to the University.
- Declare intent to pursue second baccalaureate degree by completing the Application for a Second Baccalaureate Degree. The Application for a Second Baccalaureate Degree may be secured from the Office of Academic Affairs or from the office of the college dean.
- Develop degree plan with approval of an advisor from the department in which the degree is offered.
- Complete at least 30.0 semester hours of approved courses beyond the first baccalaureate degree in residence at Jackson State University.
- Maintain a minimum grade point average of 2.00.

## Dual Degree Policy

Students seeking to pursue two different degrees (e.g., a bachelor of arts degree and a bachelor of science degree) should complete and return this application for dual degree form to the Office of Registrar and Records. The degrees must be different (e.g., a bachelor of arts degree and a bachelor of science degree), must be from different disciplines (e.g., art and chemistry), and students cannot pursue two similar degree programs (e.g., cannot earn both a BA in history and philosophy and a BS in history and philosophy). Both degrees must be completed at the same time.

Students will need to consult with an advisor from both colleges and majors. Students must have completed a minimum of 32.0 semester hours in residence at Jackson State University, with a **minimum cumulative grade point average of 3.0**. Students must be registered in one of the colleges. (The College in which the student is initially accepted will be deemed the "home" or "host" college.)

Student must be admitted to each college in which a degree is being sought:

- Student must submit a separate Application for Dual Degree along with other required documents to each respective college (if the two degrees are coming from two different colleges).
- Degree plans must be developed for the student by an academic advisor in Student Success and must be approved by a faculty advisor and chairperson from each of the respective colleges and major. The degree plan must be documented on the Application for Dual Degree.
- Student must return completed and signed applications to the Office of the Registrar and Records.
- Student must meet requirements and follow procedures of each department and college.

Degree requirements for each major must be met simultaneously. (Meeting the requirements of dual degrees may lengthen completion time of academic programs.) The student must maintain a grade point average of 2.00 or higher in each degree program. (It is the student's responsibility to know minimum grade point average requirements for both degree programs.) Student may withdraw from this arrangement at any time prior to the final semester in which the degrees are to be awarded by submitting a formal letter of withdrawal to the Dean of each college in which enrolled.

For Application for Dual Degree: <https://www.jsums.edu/registrar/files/2023/02/Application-for-Dual-Degree.10.14.2021.pdf>

## Student Services

- Center for Innovation (<https://www.jsums.edu/innovationcenter/>)
- Division of Student Affairs (<https://www.jsums.edu/studentlife2/>)
- LaTasha Norman Center for Counseling Services (LNC) (<https://www.jsums.edu/latashanormancenter/>)
- Disability Services and ADA Compliance (<https://www.jsums.edu/disability/>)
- Division of Athletics (<https://gojsutigers.com/>)
- Financial Services/Bursar (<https://www.jsums.edu/finance/businessoffice/>)
- Information Technology (<https://www.jsums.edu/informationtechnology/>)
- JSU Campus Store (<https://www.bkstr.com/jacksonstatestore/>)
- JSU Dining Services (<https://jsums.sodexomyway.com/>)
- JSU Health Services Center (<https://www.jsums.edu/healthservices/>)
- JSU Police Department (<https://www.jsums.edu/campuspolice/>)
- JSU Postal Service (<https://www.jsums.edu/postalservices/>)
- JSU Super Card (<https://www.jsums.edu/supercard/what-is-the-jsu-supercard/>)
- Student Employment Center (<https://www.jsums.edu/humanresources/jsu-student-payroll/>)
- Student Organizations (<https://www.jsums.edu/studentlife/student-organizations/>)
- Student Success (<https://www.jsums.edu/studentssuccess/>)
- Veterans and Military Student Support Center (<https://www.jsums.edu/veteranscenter/>)

## Financial Services/Bursar

Financial Services is primarily responsible for the assessment of student tuition, fee payments, and processing student refunds. Students can reach a counselor by phone at (601) 979-2216, or by email at [bursarcares@jsums.edu](mailto:bursarcares@jsums.edu). Students also have the option to be seen through the **Tiger Que**. The **Tiger Que** is a process whereby students can secure their time slot to speak with a Business Office or Financial Aid Counselor using their own personal mobile device. Students will receive text notifications when it's their turn to be seen. Students may sign into **Tiger Que** by:

1. Texting: jackson state univ to 662-233-6473
2. Using the JSU mobile app and clicking "**Tiger Que**"
3. Visiting: <https://kiosk.qless.com/kiosk/app/home/17713> (<https://kiosk.qless.com/kiosk/app/home/17713/>)

## Student Success

Student Success provides a foundation for academic success to students when they enter the university. In addition to providing academic support services, Student Success houses the University Academic Advisement Center (UAAC).

### Undergraduate Academic Advisement

At Jackson State University, academic advisement is an essential part of the undergraduate experience. Through a proactive and student-focused approach, the University Academic Advisement Center (UAAC) provides students with the guidance, tools, and resources needed to make informed decisions about their academic journey. Our mission is to

support students in achieving their educational goals while fostering a sense of ownership over their academic success.

### Advising Services

Undergraduate students should seek academic advisement through the University Academic Advisement Center (UAAC), located on the 2nd floor of the H.T. Sampson Library. However, specific populations are advised through designated offices:

- Student-athletes should receive academic advisement at the Tiger Center for Student-Athlete Development, located on the 1st floor of the H.T. Sampson Library.
- JSUOnline students should consult with JSUOnline academic advisors, located in the 101 Capitol Building at JSU's downtown location.

### Advisement Requirements

Academic advisement is mandatory for all undergraduate students before each registration period. Additionally, students are encouraged to schedule periodic meetings with their advisor throughout the semester to review their academic progress, explore course options, and plan for degree completion.

### Student Responsibilities in Advisement

To maximize the benefits of academic advisement, students are expected to:

- Understand their degree requirements and academic policies.
- Check their JSU email frequently for important academic updates.
- Follow deadlines for registration, course withdrawal, and graduation applications.
- Utilize available academic tools and resources to stay on track.
- Meet with their advisor regularly to discuss course selection, academic challenges, and long-term goals.
- Maintain personal academic records, including transcripts, degree audits, and advising notes.

### Need Help?

Students who have questions about degree requirements, academic standing, or university policies are encouraged to schedule an appointment with their academic advisor. Advisors are available to provide support and guidance to help students navigate their academic journey successfully.

For more information, visit the University Academic Advisement Center or contact your designated advisor.

## The Division of Athletics

Jackson State University is a member of the Southwestern Athletic Conference (SWAC) and affiliated with Division I of the National Collegiate Athletic Association (NCAA). The Jackson State University Division of Intercollegiate Athletics recognizes a commitment to serve both its student-athletes and the University. Its primary commitment is to provide an opportunity for student-athletes to fully develop their academic and athletic potential. Jackson State University's Division of Athletics has Division I programs in 16 sports. For questions or inquiries, please

contact the Division of Athletics at (601) 979-2360 or by email at <https://gojsutigers.com/>.

## **Intramural Sports**

Intramural Sports aim to provide a variety of team and individual activities in a recreational environment for Jackson State University students. Form a team of your peers from your dorm, or other students you meet around campus. Intramural sports may include leagues, tournaments, and contests in the following activities: flag football, basketball, soccer and volleyball.

For more information contact: <https://www.jsums.edu/studentlife/intramural/>, (<https://www.jsums.edu/studentlife/intramural/>) call (601) 979-1368, visit 34 Walter Payton Drive, Jackson MS 39217, or email [WPC@jsums.edu](mailto:WPC@jsums.edu).

## Academic Affairs

- College of Business (p. 45)
- College of Education and Human Development (p. 63)
- College of Health Sciences (p. 84)
- College of Liberal Arts (p. 92)
- College of Science, Engineering and Technology (p. 148)
- THEE Pathway: General Education Program (p. 39)
- The W.E.B. Du Bois - M.L.A. Harvey Honors College (p. 203)
- Developmental and Enhancement Studies Program (p. 38)

## Developmental and Enhancement Studies Program

### Developmental and Enhancement Studies

The Developmental and Enhancement Studies Program is housed in Academic Affairs. Year-round academic support classes and student support services which include peer tutors, computer-assisted instruction, and support labs are offered.

Developmental and Enhancement Studies' purpose is to plan, supervise, and teach preparatory courses in English, mathematics, and reading. Students failing to score at an appropriate level with a subtest score lower than 17 on the ACT or at a corresponding level on the SAT are placed in intermediate classes to assist them in reaching a level of proficiency to be successful in their regular academic classes.

Students applying to state-supported institutions of higher learning in Mississippi who fail to meet one of the four admission criteria, participate in a nine-week summer program to increase their chances of being admitted.

Qualified students take coursework in reading, composition, and mathematics. This program includes classroom instruction, as well as computer-assisted tutorials. These courses do not count toward graduation and cannot be used as substitutions for elective or major courses.

#### Descriptions of Developmental Courses

#### ENG 103 English Composition I with Co-requisite Support (3 Hours)

Prerequisite: Students who earned less than 17 on the ACT or the corresponding score on the SAT in English.

English Composition I with Co-requisite Support is an accelerated course designed to engage the student in the essentials of English writing and grammar through the Intermediate English refresher followed by the credit-bearing college-level Freshman Composition I course. Emphasis will be placed on the various writing styles and techniques, beginning with paragraph structure and writing to the fundamentals of essay structure. English Composition I with Co-requisite Support will progress with the writing-intensive Freshman Composition I, which will strive to collectively infuse interdisciplinary, collaborative learning, and provide exposure to research development, practice standard forms of essay development to encourage an intelligent expression of ideas through prewriting (including, brainstorming, outlining, and gathering information). Emphasis will be placed on drafting, revision, peer review, editing, and the final draft. Ultimately, English Composition I with Co-requisite Support will help students improve writing skills, prepare for oral discussions and develop well-written papers. The course will also enhance the students' appreciation of the variety of writing styles and themes available to hone the student's ability to write clearly and effectively.

#### MATH 103 College Algebra with Corequisite Support (4 Hours)

This course is a corequisite Math course in which the Intermediate Math course is coupled with the credit-bearing College Algebra course (IHL Policy 608E). Students will engage in extra time for mandatory labs and tutoring to help them master the content necessary to successfully complete MATH 103. Upon successfully completing this course, students will receive credit for the Intermediate Math and the College Algebra course. The course will consist of an accelerated refresher on linear equations and inequalities and their graphs, absolute value equations and inequalities, exponents, and polynomials, factoring, rational expressions, radicals, and quadratic equations; followed by an analysis of graphs and functions; polynomial functions; rational, power, and root functions; inverse, exponential, and logarithmic functions with integrated refresher content as necessary.

#### RE 103 Intermediate Reading (3 Hours)

Prerequisite: This course is required for all incoming Freshmen whose ACT score is less than a 17 in the Reading subsection.

RE 103 is an individualized course designed for any student desiring to increase the speed of reading and improve study skills.

#### GNST 101 ACADEMIC SUPPORT I (3 Hours)

This course is designed to assist conditionally admitted, as well as other volunteer students with their freshman courses. The goal of this course is to provide individualized support for marginally prepared students in regular academic credit courses.

#### GNST 102 ACADEMIC SUPPORT II (3 Hours)

This course is the second part of the year-long academic program which is designed to continue to offer individualized support for marginally prepared students in regular academic credit courses. Emphasis is placed on study skills, learning to learn strategies and lifelong skills.

#### GNST 200 LEARNING TO LEARN (2 Hours)

This course is designed to give students a chance to put failure in perspective and take charge of their future. It will assist students in determining what obstacles are interfering with their learning, in overcoming their problems and in gaining self-confidence and self-determination. (For students on probation.)

**GNST 201 ARMS I (1 Hour)**

Academic Readiness and Monitoring Program, is an initiative designed to address the needs of a special population of student athletes who are identified as at risk as a result of their transitional status (Freshman and/or Transfer). This course will cover a variety of topics useful for all incoming students, but will have a special emphasis on the issues that impact the success of JSU student-athletes.

**GNST 202 ARMS II (2 Hours)**

Academic Recovery and Monitoring Program, is an initiative designed to address the needs of a special population of student-athletes who are identified as at-risk as a result of their previous semester term GPA. This course will expand on the acquisition of scholarship skills begun in ARMS I and will cover a variety of topics useful for at-risk students, but will have a special emphasis on the issues that impact the success of JSU student-athletes. Student-athletes will gain a better understanding of the academic rigors and expectations that their individual academic departments have of them as university students/scholars.

## THEE Pathway: General Education Program

### THEE Pathway: A JSU Philosophy for General Education

True to its foundation as a Historically Black University, the Jackson State University (JSU) General Education program provides its students an equitable pathway to academic achievement and student success.

JSU's General Education program, known as **THEE Pathway**, seeks to lay a foundation of skills and intellectual habits necessary to succeed in college and beyond. Specifically, **THEE Pathway** provides students with academic experiences to develop critical thinking, analytical reasoning, and effective communication. Each of these competencies offers a foundational stepping stone along **THEE Pathway** with technology being the intersection between them.

Common goals for students in **THEE Pathway** courses are to develop their critical consciousness by learning to ask essential questions, to use habits of the mind that support critical and analytical thinking to answer them, to think deeply and effectively communicate, and to collaborate with others to address societal problems.

By design, **THEE Pathway** provides equitable opportunities for students and supports them in achieving their goals by allowing them to choose different paths through the General Education curriculum, selecting courses that are relevant to their goals and interests. Obstacles, or structural barriers that hinder student success, are removed from **THEE Pathway** to promote progression and to ensure that students maintain forward momentum.

Students navigate **THEE Pathway** with the assistance of academic advisors and clear curriculum maps. Student learning along **THEE Pathway** is supported by evidence-based pedagogies in the classroom, experiential learning beyond the classroom, and holistic student success services.

**THEE Pathway** allows students to make meaningful connections between general education courses and their chosen careers. **THEE Pathway** is more than a road map to a professional destination with economic and societal rewards at its end. It breaks new ground, allowing students to venture into uncharted territories to develop innovative ideas, skills, approaches, and relationships. **THEE Pathway** is not a solo journey.

Students travel with the guidance of their professors, the companionship of their peers, and the support of their academic community.

### General Education Core (GEC) Requirements

Code	Title	Hours
	Communication	6
	Humanities & Fine Arts	9
	Mathematics	3
	Natural Sciences	6
	Social & Behavioral Sciences	6
<b>Total Hours</b>		<b>30</b>

### University Required Courses (UR)

Code	Title	Hours
UNIV 100	UNIVERSITY SUCCESS	2
BIZ 101 & BIZ 102	UNIVERSITY SUCCESS FOR BUS MAJ and UNIVERSITY SUCCESS FOR BUS MAJ	2
UNIV 105	UNIVERSITY SUCCESS FOR ADULTS	2
UNIV 200	CIVIC ENGAGEMENT	1

Students who transfer 12 or more hours of college credits are exempt from UNIV 100, BIZ 101 & BIZ 102, and UNIV 105. However, students are still required to make up the coursework for the exempt requirement.

### Courses Which May Be Used to Satisfy Options

Code	Title	Hours
<b>Communication Options (6 Credit Hours)</b>		
ENG 104	COMPOSITION I	3
or ENG 103	English Composition I with Co-requisite Support	
or ENG 111	COMPOSITION & LITERATURE FOR L	
ENG 105	COMPOSITION II	3
or ENG 112	COMPOSITION	
<b>Humanities &amp; Fine Arts Options (9 Credit Hours)</b>		
ART 206	ART APPRECIATION	3
MUS 205	MUSIC APPRECIATION	3
MUS 218	JAZZ APPRECIATION	3
DR 201	INTRODUCTION TO THEATRE	3
ENG 201	Expressions in Blackness-Humanities and the African Diaspora	3
ENG 202	Expressions in Blackness-Humanities and the African Diaspora II	3
ENG 205	WORLD LITERATURE I	3
FR 101	ELEMENTARY FRENCH	3
FR 102	ELEMENTARY FRENCH	3
HIST 101	HISTORY OF CIVILIZATION I	3
HIST 102	HISTORY OF CIVILIZATION II	3
HIST 201	UNITED STATES HISTORY I	3
HIST 202	UNITED STATES HISTORY II	3
PHIL 301	INTRODUCTN TO PHILOSOPHY	3
PHIL 309	ETHICS	3
PHIL 416	LOGIC	3
SP 101	ELEMENTARY SPANISH	3
SP 102	ELEMENTARY SPANISH	3
SPCH 201	SPEECH ARTS	3



SW 210	PROFNL BHVRS, ETHICS, & COMMUN	3
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**Mathematics Option (3-5 Credit Hours)**

MATH 103	College Algebra with Corequisite Support	4
MATH 111	COLLEGE ALGEBRA	3
MATH 114	Quantitative Reasoning	3
MATH 118	ALGEBRA II & TRIGONOMETRY	5
MATH 241	CALCULUS I WITH LABORATORY	3
STAT 115	Introductory Statistics	3

**Natural Science Options (6 Credit Hours)**

BIO 101 & BIOL 101	INTRO TO BIOLOGICAL SCIENCE and INTRO TO BIO SCI LAB	3
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
SCI 201 & SCIL 201	PHYSICAL SCIENCE and PHYSICAL SCIENCE LAB	3
CHEM 131	INTRODUCTION TO CHEMISTRY	3
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
PHY 241	INTRODUCTN TO ASTRONOMY	4
MET 200	INTRO TO METEOROLOGY	3
BIO 234	HUMAN ANATOMY & PHYSIOLOGY I	3
BIOL 234	HUMAN ANATOMY & PHYSIOLOGY LAB	1

**Social & Behavioral Science Options (6 Credit Hours)**

COUN 315	Human Growth and Development	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
GEOG 105	INTRO TO CULTURAL GEOGRAPHY	3
MUS 203	MUSIC FOR CHILDREN ((Music Majors Only))	3
SOC 214	INTRODUCTN TO SOCIOLOGY	3
SOC 325	CULTURAL ANTHROPOLOGY	3
SS 201	SOCIAL INSTITUTIONS	3
SW 225	HUMAN DIVERSITY & SOC JUSTICE	3
PS 134	INTRO TO POLIT SCIENCE	3
PS 135	AMERICAN GOVERNMENT	3
PS 136	STATE & LOCAL GOVERNMENT	3
PSY 201	GENERAL PSYCHOLOGY	3

**DATA & INFORMATION LITERACY PATHWAY OPTIONS**

The Data and Information Literacy Pathway introduces undergraduate students to data in numerical and written forms. This pathway provides students with:

- abilities in finding, reading, understanding, analyzing, and communicating with data.
- skills to interact with data and find meaning in information, interpret information, evaluate data and information for credibility and accuracy, use data to guide decisions, and communicate data and information in oral and written modalities.

- an introduction to ethical principles associated with data and information literacy.

Code	Title	Hours
CSC 115	DIGITAL COMPUTER PRINCIPLES	3
CSC 215	DATA ANALYTICS	3
ENG 325	THE BLACK IMAGE IN THE MEDIA	3
ITD 114	COMPUTER-AIDED DRAFTING	3
JMS 250	Media Literacy	3
MET 270	COMPUTNAL DATA ANLYS VISUALI	3
MNGT 350	BUSINESS COMPUTER APPLICATIONS	3
PS 236	POLITICAL STATISTICS	3

**Discourse Pathway Options**

The Discourse Pathway introduces undergraduate students to oral, written, nonverbal, and verbal discourse and how they function in various contexts. This pathway provides students with:

- an exploration of how communication and language function in life, society, and the professional world.
- opportunities to reflect on communication and critically examine their own experiences with speech, language, and communication.
- an awareness of how their culture, ethnicity, social and educational backgrounds, as well as their values and beliefs, shape the way they use verbal and non-verbal language and respond to other's language use

Code	Title	Hours
CLL 104	WORKFORCE COMU,BEHAVR & CULTUR	3
CLHR 220	TRANG, DEVELOP, & COMMUNICATNG	3
CMD 211	INTRO TO COMMUNICATIVE DISORDR	3
ENG 213	PROFESSIONAL WRITING	3
ENG 300	Introduction to Creative Writing	3
ENG 331	INTROD TO LINGUISTICS	3
JMS 200	INTRO TO MASS COMMUNICATIONS	3
JMS 201	INTRODUCTION TO MEDIA WRITING ((Prerequisites: ENG 104/103, 105 or 111 and 112 JMS 200 recommended))	3
SPCH 201	SPEECH ARTS	3
SPCH 214	INTERPERSONAL COMMUNICATIONS	3
SPCH 215	TRAINING THE SPEAKING VOICE	3
SPCH 216	PUBLIC SPEAKING	3
SPCH 218	LISTENING	3
American Sign Language Recommended Sequence Courses		
SPED 466	INTRO TO SIGN LANGUAGE	3
SPED 467	ADVANCED SIGN LANGUAGE	3

**Environment, Conservation, and Sustainability Pathway Options**

The Environment, Conservation, and Sustainability Pathway introduce undergraduate students to the intersection between environmental systems, conservation, and sustainability. This pathway provides students with:

- foundational environmental and sustainability concepts
- insight on conserving and sustaining the environment

- an exploration into the role that technology and innovations play in environmental protection, conservation of resources, development of communities, and climate control.
- connections between environmental protection, sustainability, community development, and climate control.

Code	Title	Hours
BIO 103	ENVIRONMENTAL SCIENCE	2
BIO 114	Introduction to Marine & Environmental Sciences	3
CHEM 131	INTRODUCTION TO CHEMISTRY	3
GEOG 105	INTRO TO CULTURAL GEOGRAPHY	3
ITEM 301	PRINCIPLES OF EMERGENCY MNGT	3
SCI 215	GLOBAL CHANGE	3
SCI 228	SCIENCE SOCIETY & TECHNOLOGY	3
SOC 216	MODERN SOCIAL PROBLEMS	3

## Financial Literacy Pathway

The Financial Literacy Pathway introduces undergraduate students to aspects of financial education that lead to financial well-being. This pathway provides students with:

- financial concepts such as saving, investing, and debt.
- opportunities to learn foundational principles of finance, economics, accounting, and stock market investing.
- An exploration of topics related to poverty, inequality, and other social issues related to finances.
- an understanding of the importance of financial well-being and factors that lead to financial well-being.

Code	Title	Hours
ACC 202	FOUNDNTS OF ACCOUNTNG (NON MAJ)	3
ECO 202	FOUNDNTNS OF ECO ISSUES(NON MAJ)	3
ECO 204	BLACK ECONOMIC & SOCIAL ISSUES	3
ECO 206	FOUNDATNS OF GLOBAL ECONOMICS	3
ENTR 285	CREATIVITY, INNOVATION & ENTRE	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
FIN 220	FOUNDNTNS OF FINANCE (NON MAJOR)	3
FIN 247	FOUNDNTNS OF STOCK MKT INVESTNG	3

## Global Pathway Options

The Global Pathway introduces undergraduate students to the cultures, geographies, languages, histories, arts, and current issues of the world. This pathway provides students with:

- global considerations to enhance personal, academic, and professional development.
- an appreciation of cultural diversity, differences, and human rights that is needed for the development of a global mindset.
- a guide to developing awareness and respect for different cultures and beliefs.

Code	Title	Hours
ART 206	ART APPRECIATION	3
ART 337	NON WESTERN ART	3
French Recommended Sequence of Courses		
FR 101	ELEMENTARY FRENCH	3
FR 102	ELEMENTARY FRENCH	3

FR 201	INTERMEDIATE FRENCH	3
History Recommended Sequence of Courses		
HIST 101	HISTORY OF CIVILIZATION I	3
HIST 102	HISTORY OF CIVILIZATION II	3
HIST 201	UNITED STATES HISTORY I	3
HIST 202	UNITED STATES HISTORY II	3
MUS 202	WORLD MUSIC CULTURES	3
MUS 205	MUSIC APPRECIATION	3
MUS 218	JAZZ APPRECIATION	3
SS 111	ETHNIC STUDIES SURVEY-BLACKS	3
SS 211	ETHCS STU SUR - IND & SPAN SPK	3
SS 212	ETH STU DS SUR-JEWISH & ORIENTA	3
SOC 325	CULTURAL ANTHROPOLOGY	3
Spanish Recommended Sequence of Courses		
SP 101	ELEMENTARY SPANISH	3
SP 201	INTERMEDIATE SPANISH	3
Study Abroad Courses (Consult with JSU Global for applicable Study Abroad Pathway options).		

## Justice Pathway Options

The Justice Pathway introduces undergraduate students to justice as a thread that ties together components of equity, advocacy, distribution of resources, and opportunities. This pathway provides students with:

- a guide to view justice as a bridge to educational and health equity, social justice advocacy, small business resources, scientific and technological innovation, and critical engagement with policy and the creative arts.
- opportunities to promote justice, explore multiple perspectives and use collaborative approaches to engage students to think critically, communicate effectively, utilize diplomacy, and consider impact across race, gender, ability, faith, and socio-economic class.

Code	Title	Hours
CJ 100	INTRODUCTI TO CRIMINAL JUSTICE	3
CJ 210	INTRO CORRECT SERVICES	3
CJ 215	ETHICS IN CRIMINAL JUSTICE	3
SOC 216	MODERN SOCIAL PROBLEMS	3
SW 215	SOC WELFARE POLICIES & PROGRMS	3
SOC 329	SOCIAL CHANGE	3
SW 360	SOCIAL ISSUES IN FILM	3
ECO 204	BLACK ECONOMIC & SOCIAL ISSUES	3

## Physical, Mental, and Public Health Pathway

The Physical, Mental, and Public Health Pathway introduce undergraduate students to physical, mental, and public health. This pathway provides students with

- a foundation of the basics of these three health domains.
- an introduction introduced to various areas of health and topics that relate to the health of individuals, communities, and populations.
- opportunities to gain insight into factors that contribute to health disparities in the region, the nation, and the world.

Code	Title	Hours
BIO 236	CONCPTS OF PUBLIC HEALTH	3
HE 101	CONCEPTS OF HEALTH	3

HE 113	FIRST AID	3
HE 122	FOUNDATIONS OF HEALTH	3
HE 208	EPIDEMIOLOGY OF DISEASES	3
SOC 302	BAS ISSS IN MENTAL HLTH	3
SOC 310	INTRO TO ALCOHOL&DRUG ABUSE	3
SW 230	Basic Trauma and Trauma-Informed Care	3
TREC 104	INTRO TO THERAPEUTIC REC	3
PE Option	Any three(3) one-hour activity course with a PE prefix	3

SPCH 214	INTERPERSONAL COMMUNICATIONS	3
UNIV 300	Experiential Learning I <sup>4</sup>	Variable Credit
UNIV 301	Experiential Learning II <sup>4</sup>	Variable Credit

<sup>3</sup> **Prerequisite:** Enrollment in HON 110 is required for Du Bois- Harvey Honors College students.

<sup>4</sup> **Prerequisite:** Enrollment in UNIV 300 or UNIV 301 requires prior approval, including verification of an experiential learning activity. Email [theepathway@jsums.edu](mailto:theepathway@jsums.edu) for approval.

## Leadership Pathway

The Leadership Pathway introduces undergraduate students to concepts of communication, organization, operations and power dynamics to enhance interpersonal skills.

This pathway provides students with:

- transferable skills between academic, social, and civic responsibility.
- confidence when working with others, engaging in experiential learning opportunities and navigating moments of influence, negotiation, and management.
- the abilities to create meaningful relationships, strategize, and adapt to changes.

Code	Title	Hours
AS 101	HERITAGE AND VALUES I	1
AS 102	HERITAGE AND VALUES II	1
AS 201	TEAM & LDRSP FUNDAMENTALS I	1
AS 202	TEAM & LDRSP FUNDAMENTALS II	1
MATH 103	College Algebra with Corequisite Support <sup>1</sup>	3
MATH 114	Quantitative Reasoning <sup>1</sup>	3
ENG 228	WORD POWER	3

<sup>1</sup> **Option 1: Air Force** (Air Force ROTC Recommended Sequence of Course Options. MATH 103, MATH 114, ENG 228 & ENG 330 support the preparation for the AFOQT exam required for students pursuing officer commissioning.

Code	Title	Hours
MS 101	FUND OF LDRSHP & MGNT I <sup>2</sup>	1
MS 102	FUND OF LDRSHP & MGNT II	1
MS 104	LEADERSHIP LABORATORY	1
MS 201	INDIVIDUAL LEADERSHIP STUDIES	2-3
MS 202	LEADERSHIP AND TEAMWORK	2
MS 203	LEADERSHIP LABORATORY	1
MS 204	LEADERSHIP LABORATORY	1
MS 103	LEADERSHIP LABORATORY	1

<sup>2</sup> **Option 2: Army** (Army ROTC Recommended Sequence of Course Options.) MS courses are open for all majors to enroll.)

Code	Title	Hours
HON 110	Honors Colloquium <sup>3</sup>	1
CLHR 220	TRANG, DEVELOP, & COMMUNICATNG	3
SW 210	PROFNL BHVRS, ETHICS, & COMMUN	3
ENG 213	PROFESSIONAL WRITING	3

All degree programs at Jackson State University include a general education curriculum. The general education courses complement the specialized academic major courses to provide balance within a broader intellectual context.

The General Education curriculum is comprised of the General Education Core (GEC), which includes 30 hours of courses that every student must take in order to obtain a degree from Jackson State University; 3 hours of University Required (UR) courses, and 9 hours of General Education Pathway (PATH) courses.

The UR courses are courses that are specific to Jackson State University. The UR courses include two courses: a University Success course, which is typically taken at the beginning of a student's general education program, and a Civic Engagement course, which is typically taken at the end of a student's General Education Pathway.

A student's Pathway is comprised of three courses that are thematically connected and are selected at the student's discretion based on the student's interests. Together, the GEC, UR, and PATH courses of the General Education curriculum address student learning outcomes that focus on three areas: communication, math/analytical reasoning, and critical thinking.

**General Education Core (GEC)** courses are courses that every student must take in order to obtain a degree from Jackson State University. GEC courses are essential to every undergraduate degree at Jackson State University. Collectively, there are 30 credit hours of GEC course requirements.

**General Education Pathway (PATH)** courses are courses that are connected through interdisciplinary themes and are selected at the student's discretion to fulfill the general education curriculum. Through experiential learning and reflective writing, students will have the opportunity to integrate knowledge across courses and develop their skills and an enhanced sense of civic responsibility. Students select nine (9) hours from the pathway of choice. Each pathway concludes with a related one (1) credit hour a University Required (UR) course.

**University Required (UR)** courses are courses that are specific to Jackson State University and are designed to integrate students within the Jackson State University community by promoting student success resources, strategies, and high-impact practices.

**Degree Program Required (DPR)** courses that are required for the completion of a degree program within the specified major.

**Electives** are courses selected at a student's discretion and provide opportunities for students to pursue their academic interests. There are two types of electives. Degree Program Elective (DPE) courses are elective courses that are partially restricted such that students select courses from a specified group of identified courses (e.g., departmental elective

courses) to fulfill a particular requirement. General Elective (GEL) courses are courses that may be selected from any program for which the student has fulfilled the proper prerequisites.

**Professional Concentration (PC)** courses complement Degree Program Required courses and allow students to have a concentrated area of study within the major.

## JSUOnline

Dr. Keith Riley

Interim Director

keith.o.riley

Office: 101 W. Capitol Street, 5th Floor 601-979-0779

### Introduction

JSUOnline aims to assure the planning, development, and implementation of online education activities are in accordance with the mission of the University. Jackson State University's main goal is to utilize online learning to provide quality instruction to traditional and nontraditional students without the limitations of geographical boundaries and space. Students enrolled in an online or blended course and online degree program are provided resources equivalent to those provided to face-to-face students. Students can earn a quality education and work toward achieving long-term career goals at their convenience. For additional information, please contact JSUOnline at (601) 979-0779, email [jsuonline@jsums.edu](mailto:jsuonline@jsums.edu), or visit

101 West Capitol Street  
Jackson, MS, 39201

A listing of the academic degree programs offered through JSUOnline can be found at: <https://www.jsums.edu/new-jsuonline/online-degree-programs/>.

## State Authorization

Jackson State University participates in the State Authorization Reciprocity Agreement (SARA), which is a voluntary agreement among its member states and U.S. territories that establishes comparable national standards for interstate offering of postsecondary distance-education courses and programs. As a member of the National Council for State Authorization, Jackson State University is authorized to provide online programs and courses to students who reside in a state other than Mississippi. It is intended to make it easier for students to take online courses offered by postsecondary institutions based in another state. SARA approval does not extend to programs that lead to professional licensure.

## Professional Licensure

Professional licensure/certification requirements vary from state to state, which may affect a student's ability to apply for a professional license/certification upon the completion of the program. The U.S. Department of Education regulation, 34 CFR 668.43 (a) (5) (v) (<https://www.federalregister.gov/documents/2019/11/01/2019-23129/student-assistance-general-provisions-the-secretarys-recognition-of-accrediting-agencies-the/#p-981>), requires an institution to disclose whether the program will fulfill educational requirements for licensure or certification for each state. Students who reside in a state other than Mississippi must review the professional licensure disclosures pertaining to the academic program and consult with the state professional licensing board. Licensure disclosures for specific programs can be found at:

<https://www.jsums.edu/education/general-disclosure-and-licensure/>  
<https://www.jsums.edu/socialwork/files/2020/09/Jackson-State-Universit-Licensure.pdf>  
<https://www.jsums.edu/commdisorders/licensure-certification-disclosure/>

## Undergraduate Degree Programs

### College of Business

Accounting - B.B.A.  
Business Administration - B.B.A.  
Economics - B.B.A.  
Entrepreneurship - B.B.A.  
Finance - B.B.A.  
Management - B.B.A.  
Marketing - B.B.A.  
Supply Chain Management - B.B.A

### College of Education and Human Development

#### School of Instructional Leadership

Childcare and Family Education - B.S.  
Elementary Education - B.S.Ed.  
Health, Physical Education and Recreation - B.S.  
Professional Interdisciplinary Studies - B.S.  
Social Science Education - B.S.Ed.  
Special Education - B.S.  
University Studies - B.US.

### College of Liberal Arts

#### School of Communications

English - B.A.  
Foreign Languages - B.A.  
Journalism and Media Studies - B.S.  
Speech - B.A. & B.S.

#### School of Fine and Performing Arts

Art - B.A.  
Music Education - B.M.E.  
Music Performance - B.M.

#### School of Social and Behavioral Science

Criminal Justice - B.S.  
Sociology - B.A.  
History and Philosophy - B.A. & B.S.  
Political Science - B.A.  
Psychology - B.S.

### College of Health Sciences

*"A CEPH Accredited School of Public Health"*

Communicative Disorders - B.S.  
Health Care Administration - B.S.  
Public Health - B.S.

#### School of Social Work

Social Work - B.S.W.

### College of Science, Engineering, and Technology

#### School of Engineering

Biomedical Engineering - B.S.  
Civil Engineering - B.S.

Computer Engineering - B.S.  
Computer Science - B.S.  
Electrical Engineering - B.S.

#### School of Science and Technology

Biology - B.S.  
Chemistry - B.S.  
Earth System Sciences - B.S.  
Industrial Technology - B.S.  
Mathematics - B.S.  
Mathematics Education - B.S.  
Meteorology - B.S.  
Physics - B.S.  
Statistics - B.S.

# College of Business

Dr. Fidelis Ikem

Dean

fidelis.ikem@jsums.edu

Office: College of Business Building, Suite 521 601-979-2411

Dr. Sheila C. Porterfield

Associate Dean

sheila.y.porterfield@jsums.edu

Office: College of Business Building, Suite 521 601-979-2411

## Introduction

The College of Business at Jackson State University is committed to providing undergraduate and graduate business education programs that prepare students with competencies to succeed in the competitive global business world. Students are provided every opportunity for success in preparation for meeting the changing needs of business, industry, government, nonprofits, and education.

The College is committed to offering a supportive learning environment that will allow students to grow and flourish under the leadership of qualified faculty who value academic excellence. The College also incorporates special presentations by speakers from business and industry as well as by notable alumni to enrich the learning environment. Thus, students have regular opportunities to interact with executives and other professionals from the business community.

The College of Business awards the Bachelor of Business Administration (B.B.A.) degree in the following areas:

- Accounting
- Business Administration
- Economics
- Entrepreneurship
- Finance
- Management
- Marketing
- Supply Chain Management

In addition, the College, through its Business Graduate Programs Office, awards the:

- Master of Business Administration Degree (MBA)
- Master of Business Administration Degree – Online (MBA)
- Master of Professional Accountancy (MPA) Degree

The College also awards the Doctor of Philosophy Degree in Business Administration (Ph.D.) with three concentrations:

- Accounting
- Economics
- Management

## College Accreditations

The College of Business at Jackson State University is fully accredited by the Association to Advance Collegiate Schools of Business (AACSB International), the highest business school accrediting body in the world.

The College is also accredited by the Network of International Business Schools (NIBS). NIBS Accreditation recognizes business schools that

have demonstrated a commitment to internationalization in all facets of their organization.

## College of Business Mission Statement

The College of Business provides an undergraduate and graduate management education to a student body that is growing in diversity, by serving students from the southern region, expanding our national presence, and with a growing emphasis on serving international students. We focus on students and families who value the HBCU educational experience and on educating those from historically disadvantaged backgrounds. Our faculty, serving at the only major urban university in the state of Mississippi, actively engage in research and value excellence in the classroom as they prepare our students to provide creative business-centered solutions that promote economic and social advancement in local and national economies. The College produces ethical, technologically advanced, and globally aware business leaders.

## Purpose and Objectives

The primary purpose of the College of Business at Jackson State University is to provide opportunities for

1. intellectual and professional development for students enrolled in its instructional programs;
2. discovery of new and useful knowledge through academic and applied research;
3. effective application of knowledge in the business and economic development of the state, region, and nation through service activities.

The educational programs aim to provide students with the basic knowledge in business and related disciplines that will provide them with the needed skills and competencies required to pursue careers or advanced study. The College emphasizes a close student-teacher relationship through an advisory system designed to help students match their abilities and interest with a specialized professional field.

In addition, the educational program includes professional development activities designed to enhance communication, critical thinking, and problem-solving skills and acquaint students with social and behavioral attitudes and norms required for success in business.

The student who graduates from the College of Business should

1. be able to deal with the technical complexities of his/her chosen career;
2. have the ability to reason and independently make decisions;
3. possess written and oral communication skills;
4. possess requisite computer skills;
5. have an inclusive perspective on society and its progress; and
6. have an appreciation of the global/international dimensions of the economy and business.

Each graduate should have the skills and competencies required to ensure success in his/her chosen career or field of graduate study.

The College also works to assist students in obtaining placement in internships and co-ops. The CAPS Center staff also works diligently to assist students with the process involved in obtaining career opportunities in business, industry, and/or graduate and professional schools upon graduation.

## Academic Departments

### Department of Accounting, Finance, and Entrepreneurship

Dr. Bobbie Daniels, Interim Chair

Office: College of Business Building, Suite 462

#### Majors

- Accounting
- Finance
- Entrepreneurship

#### Minor for Non-Business Majors

- Finance

### Department of Business Administration

Mrs. Sandra McFarland, J.D., Chair

Office: College of Business Building, Suite 385

#### Majors

- Business Administration
- Economics
- Management
- Marketing
- Supply Chain Management

#### Minors for Non-Business Majors

Business Administration  
Marketing

## Centers

### Center for Artificial Intelligence Initiatives in Supply Chain Management/Tactical Autonomy

Dr. Alisa Mosley, Director

Office: College of Business Building, Suites

### JSU Center for Small Business Development

Mr. Rickey Jones, Director

Office: College of Business Building, Suites

The JSU Small Business Development Center (JSU SBDC) is part of a network of Small Business Development Centers across the nation bringing expert business knowledge to small businesses at no cost. The JSU SBDC is located in Suite 332 in the College of Business Building.

### Center for Academic and Professional Success (CAPS)

#### Faculty/Staff:

Dr. Sheila C. Porterfield, Associate Dean and Director of the Center for Academic and Professional Success

Ms. Jacqueline Spires, Coordinator of Student Success and Internship Services

Location: College of Business Building, Suite 350

The Center for Academic and Professional Success (CAPS) is a comprehensive College of Business resource center that focuses on preparing students for entry into the business world. The Center consists

of professional development courses, student professional development services, and student career management and placement services.

The purpose of the Center is to provide students with a wide range of career-related services, whether they seek experiential learning experiences in business organizations, permanent employment opportunities in business and industry, or advanced study opportunities in graduate or professional schools. Students are provided with a variety of career and employment-related tools, resources, and interview opportunities.

The following courses are offered through the College of Business Center for Academic and Professional Success (CAPS):

BIZ 101 (1) University Success for Business Major. The course is designed to assist first year students in their adjustment to college life and explore career options. Students are introduced to professional development requirements. Professional dress is required.

BIZ 102 (1) University Success for Business Major. Prerequisite: BIZ 101. The course is designed to assist first year students in their adjustment to college life and explore career options. Students are introduced to professional development requirements including portfolio development. Professional dress is required.

BIZ 201 (3) Introduction to Business. Prerequisites: BIZ 101, BIZ 102. This course is designed to introduce students to the basic concepts of business. Students receive instruction regarding the business environment, management of the enterprise, marketing management, accounting and financial management, and business careers. Professional dress is required.

BIZ 350W (3) Business Communications. Prerequisites: BIZ 101, BIZ 102, BIZ 201. This course is designed to merge written, oral and nonverbal communication theory and applications. Strong emphasis will be given to leadership theory and development content, organization, presentation, networking, problem-solving and decision-making. Students must actively participate in at least one business student organization. Professional dress is required.

## Resources

Trading Room-Interdisciplinary Learning Laboratory (TR-ILL) Center for Academic and Professional Success (CAPS) Computer Laboratories

## Scholarships

In addition to the scholarship programs offered by the University, the College of Business has a number of financial resources for business majors. Scholarships include:

- Bill Cooley College of Business Scholarship
- Brandon J. Bolden Endowed Book Award
- C Spire Foundation Endowed Scholarship
- George F. and Alleane M. Currie Endowed Scholarship
- John Palmer Endowed Scholarship Fund
- Yates Construction Endowed Scholarship
- Dr. Jacquelyn C. Franklin Annual Scholarship
- Brandon J. Bolden Book Scholarship
- Charles F. Moore Endowed Scholarship
- Five-for-Five Book Scholarship

## Degree Requirements

The College of Business awards the Bachelor of Business Administration (B.B.A.) degree in the following areas:

- Accounting
- Business Administration
- Economics
- Entrepreneurship
- Finance
- Management
- Marketing
- Supply Chain Management

In order to earn the B.B.A. degree, students must complete the requirements in the following areas:

1. the University's general education requirements;
2. the College of Business core requirements,
3. the major requirements; and
4. the elective requirements—unrestricted and business.

The College offers professional development courses for all business majors. These courses are listed under both general education requirements, and business core requirements.

### College Core Requirements

The College Core Requirements are intended to provide basic grounding in the body of knowledge common to all business disciplines. All students pursuing the Bachelor of Business Administration (B.B.A.) degree are required to take the core requirements.

Code	Title	Hours
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
ECO 256	BUSINESS STATISTICS I	3
ECO 356	BUSINESS STATISTICS II	3
FIN 320	BUSINESS FINANCE	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
MNGT 458	STRATEGIC MANAGEMENT	3
MKT 351	MARKETING MANAGEMENT	3
<b>Total Hours</b>		<b>42</b>

### Major Requirements

Students must complete 24.0 credit hours in their selected major. The major requirements are shown in the departmental sections. Note: Please see the Department section for a description of the major requirements.

### Elective Requirements

Every student in the College of Business is required to meet the following elective requirements:

Code	Title	Hours
	Unrestricted Elective	3
	Unrestricted, Business Elective - Any international business course that is not already required on the curriculum for the major	3
	Business Elective (may be restricted or unrestricted by the major department; please see the curriculum sheet for the major)	3
<b>Total Hours</b>		<b>9</b>

### Professional Development Courses

The College of Business also offers professional development opportunities to all business majors. Currently, the professional development courses that are offered through the College of Business and listed in the college core are:

Code	Title	Hours
BIZ 101	UNIVERSITY SUCCESS FOR BUS MAJ	1
BIZ 102	UNIVERSITY SUCCESS FOR BUS MAJ	1
BIZ 201	INTRODUCTION TO BUSINESS	3
BIZ 350	BUSINESS COMMUNICATIONS	3
<b>Total Hours</b>		<b>8</b>

## Major Field Test in Business

Students in the College of Business must take the Major Field Test in Business (MFTB) upon completion of the business core. The MFTB is a national standardized exam that covers content from the common body of business knowledge. The common body of business knowledge is taught in business core courses in the College of Business. All College of Business students, regardless of major, are required to take these courses. The MFTB is administered in the College of Business capstone course, MNGT 458 STRATEGIC MANAGEMENT, and is counted as a test score. Students are urged to give their studies in the business curriculum their utmost time, attention, and commitment.

In addition, the Major Field Test in Business is a requirement for graduation in the College of Business.

## Graduation Requirements

To earn a degree in the College of Business, each student must satisfactorily complete all degree requirements. Specific requirements for the completion of each course of study within the College of Business are as follows:

1. Complete a minimum of 121 semester hours.
2. Earn a cumulative academic average of not less than 2.0 in all courses taken at the University. The 2.0 cumulative GPA must be earned at the end of the semester **prior** to the semester that the student applies for graduation.
3. Earn a cumulative academic average of not less than 2.0 in all business courses that are required in the business curriculum (including the business core, the business electives, the business philosophy requirement—business ethics, and the business major.) The 2.0 cumulative GPA must be earned at the end of the semester prior to the semester that the student applies for graduation.
4. Earn a cumulative average of not less than 2.0 in all courses that constitute the 24 hours in the business major. The 2.0 cumulative GPA must be earned at the end of the semester prior to the semester that the student applies for graduation.



5. Take all senior outcome measures and examinations required by the College (Major Field Test in Business, goal assessments, etc.).

- Department of Accounting, Finance & Entrepreneurship (p. 48)
- Department of Business Administration (p. 53)

## Department of Accounting, Finance & Entrepreneurship

### Department of Accounting, Finance, & Entrepreneurship

Dr. Bobbie W. Daniels  
Interim Department Chair  
bobbie.w.daniels@jsums.edu  
(601) 979-2414

### Faculty

N. Alsharari, B. Daniels, D. Causey, L. Day, L. Didia, L. Liddell-Jackson, C. Maiden, M. Morgan, M. Nabulsi, S. Simmons, G. Yu, R. Russell

### Introduction / Mission

The Accounting, Finance and Entrepreneurship Department in the College of Business at Jackson State University offers a Bachelor of Business Administration Degree in Accounting, Finance, and Entrepreneurship. The mission of the Department is to provide quality education that is based on professional standards and best practices to our undergraduate students who are majoring in Accounting, Finance and Entrepreneurship. Our program will prepare undergraduate students with the knowledge, competencies, critical thinking skills and field experience to operate as ethical and solutions-oriented professionals and business innovators. The undergraduate programs will also prepare students for entry into graduate programs and prepare them for further professional development in their careers. Our program will prepare students to expand their knowledge, conduct research and continue their professional growth in their chosen fields.

### Objectives

The primary objective of the Department of Accounting, Finance and Entrepreneurship is to prepare students for careers in professional accountancy and finance. The academic curriculum for entrepreneurship is designed to expose students to the challenges and opportunities of new venture start-up, the management of developing businesses, and/or the management of existing small businesses and franchises.

### Bachelor

- Accounting (B.B.A.) (p. 48)
- Entrepreneurship (B.B.A.) (p. 49)
- Finance (B.B.A.) (p. 51)

### Minor

- Finance Minor (p. 52)

## Accounting (B.B.A.)

### Business Core Requirements:

Code	Title	Hours
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
ECO 256	BUSINESS STATISTICS I	3
ECO 356	BUSINESS STATISTICS II	3
FIN 320	BUSINESS FINANCE	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
MNGT 458	STRATEGIC MANAGEMENT	3
MNGT 482	BUSINESS ETHICS	3
MKT 351	MARKETING MANAGEMENT	3
MATH 221	CALCULUS I INDUST OR BUS	3
GB 463	Business Analytics	3
<b>Total Hours</b>		<b>51</b>

### Major Requirements

Code	Title	Hours
ACC 314	INTERMEDIATE ACCOUNTNG I	3
ACC 315	INTERMED ACCOUNTING II	3
ACC 321	COST ACCOUNTING I	3
ACC 381	GOVERNMENTAL & NFP ACCOUNTING	3
ACC 423	INCOME TAX ACCOUNTING	3
ACC 436	ADV & INTERNATIONAL ACCOUNTING	3
or ACC 473	ADV INCOME TAX ACCOUNTNG	
ACC 455	AUDITING	3
ACC 492	ACCOUNTING INFORM SYSTEM	3

### Electives

Restricted, Business Elective		3
GB 302	BUSINESS LAW (Restricted Business Elective)	3

**Total Hours** **30**

General Education = 42 hours; COB Core = 51 hours; Major = 24 hours; Electives = 3 hours (includes GB 302 BUSINESS LAW)

A 2.0 GPA is required in all courses taken at the University, all business courses required in the curriculum, and all courses that constitute the major. ACC 211 PRINCIPLES OF FINANCIAL ACCTNG and ACC 212 PRINCIPLES OF MANGERIAL ACCTNG are excluded from the major average.

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIZ 101	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 104	COMPOSITION I	3
or ENG 103	or English Composition I with Co-requisite Support	
or ENG 111	or COMPOSITION & LITERATURE FOR L	
MATH 111	COLLEGE ALGEBRA	3
Humanities and Fine Arts Option		3

Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIZ 102	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 221	CALCULUS I INDUST OR BUS	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIZ 201	INTRODUCTION TO BUSINESS	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 256	BUSINESS STATISTICS I	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
ACC 314	INTERMEDIATE ACCOUNTNG I	3
ACC 321	COST ACCOUNTING I	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ECO 356	BUSINESS STATISTICS II	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
ACC 315	INTERMED ACCOUNTING II	3
ACC 381	GOVERNMENTAL & NFP ACCOUNTING	3
GB 463	Business Analytics	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
FIN 320	BUSINESS FINANCE	3
MKT 351	MARKETING MANAGEMENT	3
ACC 423	INCOME TAX ACCOUNTING	3
ACC 492	ACCOUNTING INFORM SYSTEM	3
GB 302	BUSINESS LAW (Restricted Elective)	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MNGT 482	BUSINESS ETHICS	3
MNGT 458	STRATEGIC MANAGEMENT	3
ACC 436 or ACC 473	ADV & INTERNATIONAL ACCOUNTING or ADV INCOME TAX ACCOUNTNG	3
ACC 455	AUDITING	3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> Not already required for the major.

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from BIZ 101 and 102, University Success for Business Majors; however, the student must take 2 hours of general electives to replace the BIZ courses.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Undergraduate accounting students will demonstrate a thorough understanding of financial reporting related to financial statements, asset measurement, and income determination.
- Undergraduate accounting students will demonstrate basic accounting concepts for state and local governments and not-for-profit organizations.
- Undergraduate accounting students will demonstrate a working knowledge of the Federal Income Code and gain sufficient knowledge to begin an entry-level position as a tax practitioner.
- Undergraduate accounting students will demonstrate the nature of auditing and develop a foundation for acquiring the skills and knowledge to become an auditor.
- Students will demonstrate a solid foundation in applying the financial principles of the time value of money.
- Students will be able to evaluate a large and complex business problem, make some assumptions, structure the firms' cash flows and make a decision.
- Students will demonstrate knowledge and application of various investment instruments.
- Students will demonstrate knowledge of risk and returns in evaluation of portfolios performance.
- Students will be able to demonstrate how international business activities influence financial decisions.
- The student will demonstrate knowledge of the business start-up process using the lean methodology approach.
- The student will be able to develop the business model for a new start-up by proper completion of the business model canvas.
- The student will demonstrate effective oral communication skills by preparing an oral presentation of the business model to an outside group.
- The student will demonstrate knowledge of the available sources of start-up funding for a successful business.

## Entrepreneurship (B.B.A.)

### Business Core Requirements

Code	Title	Hours
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
ECO 256	BUSINESS STATISTICS I	3
ECO 356	BUSINESS STATISTICS II	3

FIN 320	BUSINESS FINANCE	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
MNGT 458	STRATEGIC MANAGEMENT	3
MNGT 482	BUSINESS ETHICS	3
MKT 351	MARKETING MANAGEMENT	3
MATH 221	CALCULUS I INDUST OR BUS	3
GB 463	Business Analytics	3
<b>Total Hours</b>		<b>51</b>

### Major Requirements

A minimum of 24 semester hours is required for the degree.:

Code	Title	Hours
ENTR 285	CREATIVITY, INNOVATION & ENTRE	3
ENTR 382	APPLD INFO SYSMS FOR ENTR & SB	3
ENTR 385	Marketing for Entrepreneurs and Small Businesses	3
ENTR 384	INTERSHIP & APPRENTSHIP N ENTR	3
ENTR 300	FINANCE SMALL BUS & ENTRE VENT	3
ENTR 485	VENTURE CREATION	3
ENTR 486	VENTURE CREATION II	3
MNGT 462	INTERNATNL BUS AND ENTREPNSHIP	3
<b>Electives</b>		
Select one of the following Restricted ENTR Electives:		3
ENTR 460	Managing Technological and Creative Art Innovations	
ENTR 470	Managing Urban, Social and Non-Profit E Ventures	
ENTR 487	FAMILY BUSINESS MANAGEMENT	
<b>Total Hours</b>		<b>27</b>

General Education = 42 hours; COB Core = 51 hours; Major = 24 hours; Electives = 3 hours

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIZ 101	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111	COLLEGE ALGEBRA	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIZ 102	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 221	CALCULUS I INDUST OR BUS	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>

<b>Sophomore</b>		
<b>Fall</b>		
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
ENTR 285	CREATIVITY, INNOVATION & ENTRE	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>

<b>Junior</b>		
<b>Fall</b>		
ECO 256	BUSINESS STATISTICS I	3
FIN 320	BUSINESS FINANCE	3
MKT 351	MARKETING MANAGEMENT	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 356	BUSINESS STATISTICS II	3
ENTR 382	APPLD INFO SYSMS FOR ENTR & SB	3
ENTR 384	INTERSHIP & APPRENTSHIP N ENTR	3
ENTR 385	Marketing for Entrepreneurs and Small Businesses	3
<b>Hours</b>		<b>15</b>

<b>Senior</b>		
<b>Fall</b>		
ENTR 460 or ENTR 470	Managing Technological and Creative Art Innovations or Managing Urban, Social and Non-Profit E Ventures	3
ENTR 485	VENTURE CREATION	3
MNGT 458	STRATEGIC MANAGEMENT	3
MNGT 482	BUSINESS ETHICS	3
GB 463	Business Analytics	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENTR 300	FINANCE SMALL BUS & ENTRE VENT	3
ENTR 486	VENTURE CREATION II	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
MNGT 462	INTERNATNL BUS AND ENTREPNSHIP	3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> Not already required in major.

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from BIZ 101 UNIVERSITY SUCCESS FOR BUS MAJ and BIZ 102 UNIVERSITY SUCCESS FOR BUS MAJ; however, the student must take 2 hours of non-business electives to replace the BIZ courses .
- Online Graduation Clearance (to be completed during the graduating semester only).

## Student Learning Outcomes

- Undergraduate accounting students will demonstrate a thorough understanding of financial reporting related to financial statements, asset measurement, and income determination.
- Undergraduate accounting students will demonstrate basic accounting concepts for state and local governments and not-for-profit organizations.
- Undergraduate accounting students will demonstrate a working knowledge of the Federal Income Code and gain sufficient knowledge to begin an entry-level position as a tax practitioner.
- Undergraduate accounting students will demonstrate the nature of auditing and develop a foundation for acquiring the skills and knowledge to become an auditor.
- Students will demonstrate a solid foundation in applying the financial principles of the time value of money.
- Students will be able to evaluate a large and complex business problem, make some assumptions, structure the firms' cash flows and make a decision.
- Students will demonstrate knowledge and application of various investment instruments.
- Students will demonstrate knowledge of risk and returns in evaluation of portfolios performance.
- Students will be able to demonstrate how international business activities influence financial decisions.
- The student will demonstrate knowledge of the business start-up process using the lean methodology approach.
- The student will be able to develop the business model for a new start-up by proper completion of the business model canvas.
- The student will demonstrate effective oral communication skills by preparing an oral presentation of the business model to an outside group.
- The student will demonstrate knowledge of the available sources of start-up funding for a successful business.

## Finance (B.B.A.)

### Business Core Requirements

Code	Title	Hours
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
ECO 256	BUSINESS STATISTICS I	3
ECO 356	BUSINESS STATISTICS II	3
FIN 320	BUSINESS FINANCE	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
MNGT 458	STRATEGIC MANAGEMENT	3
MNGT 482	BUSINESS ETHICS	3
MKT 351	MARKETING MANAGEMENT	3
MATH 221	CALCULUS I INDUST OR BUS	3

GB 463	Business Analytics	3
<b>Total Hours</b>		<b>51</b>

### Major Requirements

A minimum of 24 semester hours is required for the degree.

Code	Title	Hours
ECO 311	INTERMEDIATE MACROECONOMICS	3
or ECO 312	INTERMED MICROECONOMIC THEORY	
FIN 317	PRINCIPLES OF INSURANCE	3
FIN 443	FINANCIAL MANAGEMENT	3
FIN 446	COMMERCIAL BANKING	3
FIN 447	INVESTMENTS	3
FIN 451	PORTFOLIO THEORY	3
FIN 452	INTERNATIONAL FINANCE	3
or ECO 446	INTERNATIONAL TRADE	
GB 302	BUSINESS LAW	3

### Electives

Restricted, Business Elective <sup>1</sup>	3
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<b>Total Hours</b>	<b>27</b>
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<sup>1</sup> Any international business course that is not already required on the curriculum for the major.

General Education = 42 hours; COB Core = 51 hours; Major = 24 hours; Electives = 3 hours

A 2.0 GPA is required in all courses taken at the University, all business courses required in the curriculum, and all courses that constitute the major.

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIZ 101	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 104	COMPOSITION I	3
or ENG 103	or English Composition I with Co-requisite Support	
or ENG 111	or COMPOSITION & LITERATURE FOR L	
MATH 111	COLLEGE ALGEBRA	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIZ 102	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 105	COMPOSITION II	3
or ENG 112	or COMPOSITION	
MATH 221	CALCULUS I INDUST OR BUS	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3

Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
ECO 256	BUSINESS STATISTICS I	3
ECO 311	INTERMEDIATE MACROECONOMICS	3
or ECO 312	or INTERMED MICROECONOMIC THEORY	
FIN 320	BUSINESS FINANCE	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 482	BUSINESS ETHICS	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 356	BUSINESS STATISTICS II	3
MKT 351	MARKETING MANAGEMENT	3
FIN 317	PRINCIPLES OF INSURANCE	3
Any International Business Course <sup>1</sup>		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
FIN 443	FINANCIAL MANAGEMENT	3
FIN 446	COMMERCIAL BANKING	3
FIN 452	INTERNATIONAL FINANCE	3
or ECO 446	or INTERNATIONAL TRADE	
GB 302	BUSINESS LAW	3
GB 463	Business Analytics	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
FIN 447	INVESTMENTS	3
FIN 451	PORTFOLIO THEORY	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
MNGT 458	STRATEGIC MANAGEMENT	3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from BIZ 101 UNIVERSITY SUCCESS FOR BUS MAJ and BIZ 102 UNIVERSITY SUCCESS FOR BUS MAJ; however, the student must take 2 hours of non-business electives to replace the BIZ courses.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Undergraduate accounting students will demonstrate a thorough understanding of financial reporting related to financial statements, asset measurement, and income determination.
- Undergraduate accounting students will demonstrate basic accounting concepts for state and local governments and not-for-profit organizations.

- Undergraduate accounting students will demonstrate a working knowledge of the Federal Income Code and gain sufficient knowledge to begin an entry-level position as a tax practitioner.
- Undergraduate accounting students will demonstrate the nature of auditing and develop a foundation for acquiring the skills and knowledge to become an auditor.
- Students will demonstrate a solid foundation in applying the financial principles of the time value of money.
- Students will be able to evaluate a large and complex business problem, make some assumptions, structure the firms' cash flows and make a decision.
- Students will demonstrate knowledge and application of various investment instruments.
- Students will demonstrate knowledge of risk and returns in evaluation of portfolios performance.
- Students will be able to demonstrate how international business activities influence financial decisions.
- The student will demonstrate knowledge of the business start-up process using the lean methodology approach.
- The student will be able to develop the business model for a new start-up by proper completion of the business model canvas.
- The student will demonstrate effective oral communication skills by preparing an oral presentation of the business model to an outside group.
- The student will demonstrate knowledge of the available sources of start-up funding for a successful business.

## Finance Minor

A minor in finance is offered to students earning degrees outside the College of Business. The minor introduces the student to the principles of finance. Students pursuing the finance minor are expected to apply these principles in analyzing financial issues and in developing problem-solving and quantitative skills that are widely used in business. Students learn how to apply key financial concepts to real-life situations. Students also gain insight on financial markets and their wide-ranging impacts.

Code	Title	Hours
ECO 211	PRINCIPLES OF MACROECONOMICS	3
or ECO 212	PRINCIPLES OF MICROECONOMICS	
ACC 202	FOUNDNTS OF ACCOUNTNG (NON MAJ)	3
FIN 220	FOUNDNTNS OF FINANCE (NON MAJOR)	3
FIN 247	FOUNDNTNS OF STOCK MKT INVESTNG	3
FIN 315	PERSONAL FINANCE	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
<b>Total Hours</b>		<b>18</b>

## Student Learning Outcomes

- Undergraduate accounting students will demonstrate a thorough understanding of financial reporting related to financial statements, asset measurement, and income determination.
- Undergraduate accounting students will demonstrate basic accounting concepts for state and local governments and not-for-profit organizations.
- Undergraduate accounting students will demonstrate a working knowledge of the Federal Income Code and gain sufficient knowledge to begin an entry-level position as a tax practitioner.

- Undergraduate accounting students will demonstrate the nature of auditing and develop a foundation for acquiring the skills and knowledge to become an auditor.
- Students will demonstrate a solid foundation in applying the financial principles of the time value of money.
- Students will be able to evaluate a large and complex business problem, make some assumptions, structure the firms' cash flows and make a decision.
- Students will demonstrate knowledge and application of various investment instruments.
- Students will demonstrate knowledge of risk and returns in evaluation of portfolios performance.
- Students will be able to demonstrate how international business activities influence financial decisions.
- The student will demonstrate knowledge of the business start-up process using the lean methodology approach.
- The student will be able to develop the business model for a new start-up by proper completion of the business model canvas.
- The student will demonstrate effective oral communication skills by preparing an oral presentation of the business model to an outside group.
- The student will demonstrate knowledge of the available sources of start-up funding for a successful business.

## Department of Business Administration

### Department of Business Administration

Mrs. Saundra Thompson-McFarland

Interim Department Chair

saundra.m.thompson@jsums.edu; Phone: 601-979-1088

### Faculty

#### Economics

O. D. Anyamele, J. C. Assad, M. Granger, F. Ezeala-Harrison, R. Ahyuja, D. Didia

#### General Business

S. McFarland

#### Management

H. Chong, H. Kim, A. Mosley, Y. Rhee

#### Marketing

E. Davidson, P. Thiagarajan, S. Khan

#### Supply Chain Management

A. Ambe, R. Rana

#### Introduction/Mission

The mission of the undergraduate majors in the Department of Business Administration is to produce students equipped with the skills necessary to understand how the business environment works, and how to apply this knowledge and skill to tackle practical business problems that arise and exist throughout the world. The department is committed to maintaining high standards and achieving excellent outcomes for

students, in alignment with its AACSB International accreditation for the College of Business.

## Objectives

The objectives of the Department of Business Administration are to train and produce skilled practitioners in the business areas of general Business Administration, Economics, Management, Marketing, and Supply Chain Management. The degrees are designed to:

- Train and produce students with critical thinking, analytical, problem-solving, and communication skills;
- Enable students to acquire practical experience to be able to succeed in the real business world;
- Raise students' level of academic performance and retention; and
- Attract and retain high-quality and highly productive faculty.

### Bachelor

- Business Administration (B.B.A.) (p. 53)
- Economics (B.B.A.) (p. 55)
- Management (B.B.A.) (p. 57)
- Marketing (B.B.A.) (p. 58)
- Supply Chain Management (B.B.A.) (p. 60)

### Minor

- Business Administration Minor (p. 55)
- Marketing Minor (p. 61)

## Business Administration (B.B.A.)

### Business Core Requirements

Code	Title	Hours
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
ECO 256	BUSINESS STATISTICS I	3
ECO 356	BUSINESS STATISTICS II	3
FIN 320	BUSINESS FINANCE	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
MNGT 458	STRATEGIC MANAGEMENT	3
MNGT 482	BUSINESS ETHICS	3
MKT 351	MARKETING MANAGEMENT	3
MATH 221	CALCULUS I INDUST OR BUS	3
GB 463	Business Analytics	3

**Total Hours**

**51**

### Major Requirements

A total of eight courses are required of all business administration majors.

Code	Title	Hours
Any 300 or 400 Upper Business ACC/ECO/FIN Course <sup>1</sup>		3
ECO 442	MONEY AND BANKING	3
ENTR 285	CREATIVITY, INNOVATION & ENTRE	3
FIN 447	INVESTMENTS	3
GB 302	BUSINESS LAW	3
Any 300 or 400 Level Business Course <sup>1,2</sup>		3
Any 300 or 400 Level Business Course <sup>1,2</sup>		3
<b>Electives</b>		
International Business Course <sup>3</sup>		3
General Elective <sup>1</sup>		3
<b>Total Hours</b>		<b>27</b>

- <sup>1</sup> That is not already required in the major.
- <sup>2</sup> Restricted Upper Level (300 or 400) Business Electives – Not more than two of these courses can be taken from the same area.
- <sup>3</sup> Any international business course that is not already required on the curriculum for the major.

General Education = 42 hours; COB Core = 51 hours; Major = 27 hours

A 2.0 GPA is required in all courses taken at the University, all business courses required in the curriculum, and all courses that constitute the major.

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIZ 101	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 104	COMPOSITION I	3
or ENG 103	or English Composition I with Co-requisite Support	
or ENG 111	or COMPOSITION & LITERATURE FOR L	
MATH 111	COLLEGE ALGEBRA	3
or MATH 103	or College Algebra with Corequisite Support	
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIZ 102	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 105	COMPOSITION II	3
or ENG 112	or COMPOSITION	
MATH 221	CALCULUS I INDUST OR BUS	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3

ECO 256	BUSINESS STATISTICS I	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
FIN 320	BUSINESS FINANCE	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MKT 351	MARKETING MANAGEMENT	3
ECO 356	BUSINESS STATISTICS II	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
GB 302	BUSINESS LAW	3
BIZ 350	BUSINESS COMMUNICATIONS	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
ENTR 285	CREATIVITY, INNOVATION & ENTRE	3
Any 300-400 Level Business Course (ACCT, ECON, or FIN) <sup>1</sup>		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ECO 442	MONEY AND BANKING	3
MNGT 458	STRATEGIC MANAGEMENT	3
MNGT 482	BUSINESS ETHICS	3
Any 300-400 level Business Course <sup>1</sup>		3
Any International Business Course <sup>1</sup>		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
FIN 447	INVESTMENTS	3
Any 300-400 level Business Course <sup>2</sup>		3
General Elective <sup>1</sup>		3
GB 463	Business Analytics	3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

- <sup>1</sup> Not already required for the major.
- <sup>2</sup> Not a part of the major/can't be from the same area.

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from BIZ 101 UNIVERSITY SUCCESS FOR BUS MAJ and BIZ 102 UNIVERSITY SUCCESS FOR BUS MAJ: University Success; however, the student must take 2 hours of non-business electives to replace the BIZ courses.
- Online Graduation Clearance (to be completed during the graduating semester only).

## Student Learning Outcomes

- Students will demonstrate a solid foundation in applying the financial principles of the time value of money.
- Students will be able to evaluate a large and complex business problem, make some assumptions, structure the firms' cash flows and make a decision.
- Students will demonstrate knowledge and application of various investment instruments
- Students will demonstrate knowledge of risk and returns in evaluation of portfolios performance

- Students will be able to demonstrate how international business activities influence financial decisions.
- Students will develop and demonstrate oral and written communication skills with focus on effectiveness, clarity, and sophistication.
- Students will be able to demonstrate an understanding of the processes involved in ethical decision making in personal, professional and civic life.
- Students will be able to demonstrate an understanding of the dynamics of the global economy.
- Students will be able to demonstrate competency with utilizing information technology.
- Students will be able to develop and strengthen critical thinking skills in conjunction with quantitative analysis.
- To develop an awareness of multiculturalism and diversity understanding.
  - To demonstrate mastery of basic knowledge concerning the importance of cultural values and diversity and the impact these factors have on business organizations.
  - To demonstrate a clear understanding of knowledge of different cultures as they relate to diversity.
- To develop an awareness to recognize the dynamics of the global markets and its impact on global economy.
  - To demonstrate an understanding of the process of making business recommendations after reviewing external and internal industry information.
  - To demonstrate the ability to explain how various economic and market outcomes exists and how businesses respond to those nuances.
- To demonstrate competency with utilizing information technology.
  - To demonstrate a competency regarding business productivity software.
  - To demonstrate competency concerning the techniques used in the collection, presentation, manipulation and interpretation of numerical data.

## Business Administration Minor

The Minor in Business Administration for Non-Business Majors provides a general study of business to students in Majors outside of Business. This enables students to gain a core understanding of business without making it the center of their education. Students who fulfill the requirements for the Minor in Business Administration will gain understanding of functional areas such as accounting, economics, finance, management, and marketing.

A minimum of 18 credit hours is required for the Minor in Business Administration for Non-Business Majors.

Code	Title	Hours
ACC 202	FOUNDNTS OF ACCOUNTNG (NON MAJ	3
ENTR 285	CREATIVITY, INNOVATION & ENTRE	3
FIN 220	FOUNDNTS OF FINANCE (NON MAJOR	3
MKT 351	MARKETING MANAGEMENT	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
<b>Total Hours</b>		<b>18</b>

## Economics (B.B.A.)

### Major Requirements

#### Business Core Requirements:

Code	Title	Hours
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
ECO 256	BUSINESS STATISTICS I	3
ECO 356	BUSINESS STATISTICS II	3
FIN 320	BUSINESS FINANCE	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
MNGT 458	STRATEGIC MANAGEMENT	3
MNGT 482	BUSINESS ETHICS	3
MKT 351	MARKETING MANAGEMENT	3
MATH 221	CALCULUS I INDUST OR BUS	3
GB 463	Business Analytics	3
<b>Total Hours</b>		<b>51</b>

#### Major Requirements:

A minimum of 24 semester hours is required for the degree.

Code	Title	Hours
ECO 311	INTERMEDIATE MACROECONOMICS	3
ECO 312	INTERMED MICROECONOMIC THEORY	3
ECO 325	ECONOMIC DEVELOPMENT	3
ECO 360	MATH FOR ECONOMICS AND FINANCE	3
ECO 444	PUBLIC ECONOMICS	3
ECO 446	INTERNATIONAL TRADE	3
ECO 456	URBAN ECONOMICS	3
ECO 460	INTRODUCTION TO ECONOMETRICS	3
<b>Electives</b>		
Restricted, Business Elective <sup>1</sup>		3
<b>Total Hours</b>		<b>27</b>

<sup>1</sup> Any international business course that is not already required on the curriculum for the major

General Education = 42 hours; COB Core = 48 hours; Major = 24 hours; Electives = 6 hours

A 2.0 GPA is required in all courses taken at the University, all business courses required in the curriculum, and all courses that constitute the major.

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIZ 101	UNIVERSITY SUCCESS FOR BUS MAJ	1



ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111	COLLEGE ALGEBRA	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIZ 102	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 221	CALCULUS I INDUST OR BUS	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 256	BUSINESS STATISTICS I	3
ECO 311	INTERMEDIATE MACROECONOMICS	3
FIN 320	BUSINESS FINANCE	3
MKT 351	MARKETING MANAGEMENT	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ECO 312	INTERMED MICROECONOMIC THEORY	3
ECO 325	ECONOMIC DEVELOPMENT	3
ECO 356	BUSINESS STATISTICS II	3
ECO 360	MATH FOR ECONOMICS AND FINANCE	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
ECO 444	PUBLIC ECONOMICS	3
MNGT 458	STRATEGIC MANAGEMENT	3
MNGT 482	BUSINESS ETHICS	3
GB 463	Business Analytics	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ECO 446	INTERNATIONAL TRADE	3
ECO 456	URBAN ECONOMICS	3
ECO 460	INTRODUCTION TO ECONOMETRICS	3

Any International Business Core <sup>2</sup>	3
<b>Hours</b>	<b>12</b>
<b>Total Hours</b>	<b>120</b>

<sup>1</sup> Not already required in major.

<sup>2</sup> Not already in the major

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- On-line Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will demonstrate a solid foundation in applying the financial principles of the time value of money.
- Students will be able to evaluate a large and complex business problem, make some assumptions, structure the firms' cash flows and make a decision.
- Students will demonstrate knowledge and application of various investment instruments
- Students will demonstrate knowledge of risk and returns in evaluation of portfolios performance
- Students will be able to demonstrate how international business activities influence financial decisions.
- Students will develop and demonstrate oral and written communication skills with focus on effectiveness, clarity, and sophistication.
- Students will be able to demonstrate an understanding of the processes involved in ethical decision making in personal, professional and civic life.
- Students will be able to demonstrate an understanding of the dynamics of the global economy.
- Students will be able to demonstrate competency with utilizing information technology.
- Students will be able to develop and strengthen critical thinking skills in conjunction with quantitative analysis.
- To develop an awareness of multiculturalism and diversity understanding.
  - To demonstrate mastery of basic knowledge concerning the importance of cultural values and diversity and the impact these factors have on business organizations.
  - To demonstrate a clear understanding of knowledge of different cultures as they relate to diversity.
- To develop an awareness to recognize the dynamics of the global markets and its impact on global economy.
  - To demonstrate an understanding of the process of making business recommendations after reviewing external and internal industry information.
  - To demonstrate the ability to explain how various economic and market outcomes exists and how businesses respond to those nuances.
- To demonstrate competency with utilizing information technology.
  - To demonstrate a competency regarding business productivity software.

- To demonstrate competency concerning the techniques used in the collection, presentation, manipulation and interpretation of numerical data.

## Management (B.B.A.)

### Business Core Requirements

Code	Title	Hours
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
ECO 256	BUSINESS STATISTICS I	3
ECO 356	BUSINESS STATISTICS II	3
FIN 320	BUSINESS FINANCE	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
MNGT 458	STRATEGIC MANAGEMENT	3
MNGT 482	BUSINESS ETHICS	3
MKT 351	MARKETING MANAGEMENT	3
MATH 221	CALCULUS I INDUST OR BUS	3
GB 463	Business Analytics	3
<b>Total Hours</b>		<b>51</b>

### Major Requirements

A minimum of 24 semester hours is required for the degree.

Code	Title	Hours
ENTR 285	CREATIVITY, INNOVATION & ENTRE	3
MNGT 353	PRODCNTN&OPERATIONS MGMNT	3
MNGT 416	ORGANIZATIONAL BEHAVIOR	3
MNGT 452	HUMAN RESRCE/PERSONNEL MANAGEM	3
MNGT 460	DATA COMMUNICATONS	3
MNGT 462	INTERNATNL BUS AND ENTREPNSHIP	3
MNGT 468	COLLECTIVE BARGAINING	3
MNGT 472	MANAGERIAL LEADERSHIP	3
<b>Electives</b>		
Restricted, Business Elective <sup>1</sup>		3
<b>Total Hours</b>		<b>27</b>

<sup>1</sup> Any international business course that is not already required on the curriculum for the major.

General Education = 42 hours; COB Core = 51 hours; Major = 24 hours; Electives = 3 hours

A 2.0 GPA is required in all courses taken at the University, all business courses required in the curriculum, and all courses that constitute the major.

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIZ 101	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111	COLLEGE ALGEBRA	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIZ 102	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 221	CALCULUS I INDUST OR BUS	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 256	BUSINESS STATISTICS I	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 468	COLLECTIVE BARGAINING	3
GB 463	Business Analytics	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ECO 356	BUSINESS STATISTICS II	3
ENTR 285	CREATIVITY, INNOVATION & ENTRE	3
FIN 320	BUSINESS FINANCE	3
MKT 351	MARKETING MANAGEMENT	3
MNGT 482	BUSINESS ETHICS	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
MNGT 416	ORGANIZATIONAL BEHAVIOR	3
MNGT 460	DATA COMMUNICATONS	3
MNGT 452	HUMAN RESRCE/PERSONNEL MANAGEM	3
Any International Business Course <sup>1</sup>		3
<b>Hours</b>		<b>15</b>

Spring		
MNGT 353	PRODCNT&OPERATIONS MGMNT	3
MNGT 458	STRATEGIC MANAGEMENT	3
MNGT 462	INTERNATNL BUS AND ENTREPNSHIP	3
MNGT 472	MANAGERIAL LEADERSHIP	3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> Not already required for the major.

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from BIZ 101 UNIVERSITY SUCCESS FOR BUS MAJ and BIZ 102 UNIVERSITY SUCCESS FOR BUS MAJ; however, the student must take 2 hours of non-business electives to replace the BIZ courses.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will demonstrate a solid foundation in applying the financial principles of the time value of money.
- Students will be able to evaluate a large and complex business problem, make some assumptions, structure the firms' cash flows and make a decision.
- Students will demonstrate knowledge and application of various investment instruments.
- Students will demonstrate knowledge of risk and returns in evaluation of portfolios performance.
- Students will be able to demonstrate how international business activities influence financial decisions.
- Students will develop and demonstrate oral and written communication skills with focus on effectiveness, clarity, and sophistication.
- Students will be able to demonstrate an understanding of the processes involved in ethical decision making in personal, professional and civic life.
- Students will be able to demonstrate an understanding of the dynamics of the global economy.
- Students will be able to demonstrate competency with utilizing information technology.
- Students will be able to develop and strengthen critical thinking skills in conjunction with quantitative analysis.
- Students develop an awareness of multiculturalism and diversity understanding.
  - Students demonstrate mastery of basic knowledge concerning the importance of cultural values and diversity and the impact these factors have on business organizations.
  - Students demonstrate a clear understanding of knowledge of different cultures as they relate to diversity.
- Students develop an awareness to recognize the dynamics of the global markets and its impact on global economy.
  - Students demonstrate an understanding of the process of making business recommendations after reviewing external and internal industry information.

- Students demonstrate the ability to explain how various economic and market outcomes exists and how businesses respond to those nuances.
- Students demonstrate competency with utilizing information technology.
  - Students demonstrate a competency regarding business productivity software.
  - Students demonstrate competency concerning the techniques used in the collection, presentation, manipulation and interpretation of numerical data.

## Marketing (B.B.A.)

### Business Core Requirements

Code	Title	Hours
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
ECO 256	BUSINESS STATISTICS I	3
ECO 356	BUSINESS STATISTICS II	3
FIN 320	BUSINESS FINANCE	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
MNGT 458	STRATEGIC MANAGEMENT	3
MNGT 482	BUSINESS ETHICS	3
MKT 351	MARKETING MANAGEMENT	3
MATH 221	CALCULUS I INDUST OR BUS	3
GB 463	Business Analytics	3
<b>Total Hours</b>		<b>51</b>

### Major Requirements

A minimum of 24 semester hours is required for the degree.

Code	Title	Hours
MKT 443	Digital Marketing	3
MKT 438	MARKET RESEARCH	3
MKT 440	CONSUMER BEHAVIOR	3
MKT 462	MKT POLICIES & STRATEGY	3
MKT 466	INTERNATIONAL MARKETING	3
Select Three (3) from the following:		
MKT 436	RETAIL MGNT & MERCHANDNG	3
MKT 432	ADVERTISING	3
MKT 448	MARKETING CHANNELS	3
MKT 450	PERSONAL SELLING	3
<b>Electives</b>		
Restricted, Business Elective <sup>1</sup>		3

<sup>1</sup> Any international business course that is not already required on the curriculum for the major.

General Education = 42 hours; COB Core = 51 hours; Major = 24 hours; Electives = 3 hours

A 2.0 GPA is required in all courses taken at the University, all business courses required in the curriculum, and all courses that constitute the major.

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIZ 101	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111	COLLEGE ALGEBRA	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIZ 102	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 221	CALCULUS I INDUST OR BUS	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 256	BUSINESS STATISTICS I	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MKT 351	MARKETING MANAGEMENT	3
Any International Business Course <sup>1</sup>		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ECO 356	BUSINESS STATISTICS II	3
FIN 320	BUSINESS FINANCE	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
MNGT 482	BUSINESS ETHICS	3
MKT 443	Digital Marketing	3
<b>Hours</b>		<b>15</b>

### Senior

#### Fall

MKT 438	MARKET RESEARCH	3
MKT 440	CONSUMER BEHAVIOR	3
GB 463	Business Analytics	3
Marketing Elective (Choose from Marketing Major Electives)		6
<b>Hours</b>		<b>15</b>

#### Spring

MKT 462	MKT POLICIES & STRATEGY	3
Marketing Elective (Choose from Marketing Major Electives)		3
MKT 466	INTERNATIONAL MARKETING	3
MNGT 458	STRATEGIC MANAGEMENT	3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> Not already required for the major.

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from BIZ 101 UNIVERSITY SUCCESS FOR BUS MAJ and BIZ 102 UNIVERSITY SUCCESS FOR BUS MAJ; however, the student must take 2 hours of non-business electives to replace the BIZ courses.
- Online Graduation Clearance (to be completed during the graduating semester only).

## Student Learning Outcomes

- Students will demonstrate a solid foundation in applying the financial principles of the time value of money.
- Students will be able to evaluate a large and complex business problem, make some assumptions, structure the firms' cash flows and make a decision.
- Students will demonstrate knowledge and application of various investment instruments.
- Students will demonstrate knowledge of risk and returns in evaluation of portfolios performance.
- Students will be able to demonstrate how international business activities influence financial decisions.
- Students will develop and demonstrate oral and written communication skills with focus on effectiveness, clarity, and sophistication.
- Students will be able to demonstrate an understanding of the processes involved in ethical decision making in personal, professional and civic life.
- Students will be able to demonstrate an understanding of the dynamics of the global economy.
- Students will be able to demonstrate competency with utilizing information technology.
- Students will be able to develop and strengthen critical thinking skills in conjunction with quantitative analysis.
- Students will develop an awareness of multiculturalism and diversity understanding.
  - Students will demonstrate mastery of basic knowledge concerning the importance of cultural values and diversity and the impact these factors have on business organizations.
  - Students will demonstrate a clear understanding of knowledge of different cultures as they relate to diversity.

- Students will develop an awareness to recognize the dynamics of the global markets and its impact on global economy.
  - Students will demonstrate an understanding of the process of making business recommendations after reviewing external and internal industry information.
  - Students demonstrate the ability to explain how various economic and market outcomes exists and how businesses respond to those nuances.
- Students will demonstrate competency with utilizing information technology.
  - Students will demonstrate a competency regarding business productivity software.
  - Students will demonstrate competency concerning the techniques used in the collection, presentation, manipulation and interpretation of numerical data.

## Supply Chain Management (B.B.A.)

The B.B.A. Supply Chain Management program is designed to produce outstanding, ethical, technologically advanced, creative, and innovative graduates in the field of supply chain and distribution management. The program enables students to acquire management skills in effective procurement, just-in-time distribution, inventory management, and storage of products in the manufacturing and distribution sectors. The program enables students to develop skills in critical business decision-making and strategies, to prepare them to be ready for jobs at various entry level positions and support services in corporate, wholesale, and retail industries. Graduates of the program are equipped with leadership skills, analytical skills, and organizational skills to be creative problem solvers. Career opportunities include positions as retail analyst, distribution coordinator, inventory manager, merchandising manager, and sales manager.

### Business Core Requirements

Code	Title	Hours
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
BIZ 201	INTRODUCTION TO BUSINESS	3
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
ECO 256	BUSINESS STATISTICS I	3
ECO 356	BUSINESS STATISTICS II	3
FIN 320	BUSINESS FINANCE	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
MNGT 458	STRATEGIC MANAGEMENT	3
MNGT 482	BUSINESS ETHICS	3
MKT 351	MARKETING MANAGEMENT	3
MATH 221	CALCULUS I INDUST OR BUS	3
GB 463	Business Analytics	3
<b>Total Hours</b>		<b>51</b>

### Major Requirements

A minimum of 24 semester hours is required for the degree.

Code	Title	Hours
MNGT 353	PRODCNT&OPERATIONS MGMNT	3
SCM 410	Quality Management	3
SCM 420	Strategic Procurement	3
SCM 430	Project Management	3
SCM 450	Logistics	3
SCM 460	Risk Management	3
SCM 480	Supply Chain in Practice	3
MKT 448	MARKETING CHANNELS	3
<b>Total Hours</b>		<b>24</b>

In addition, Supply Chain Management Majors must complete 3 semester hours of electives as shown below.

Code	Title	Hours
	Restricted Business Elective <sup>1</sup>	3
<b>Total Hours</b>		<b>3</b>

<sup>1</sup> Any international business course that is not already required on the curriculum for the major.

General Education = 42 hours; COB Core + 51 hours; Major=24 hours; Electives=3 hours

A 2.0 GPA is required in all courses taken at the University, all business courses required in the curriculum, and all courses that constitute the major.

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIZ 101	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111	COLLEGE ALGEBRA	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIZ 102	UNIVERSITY SUCCESS FOR BUS MAJ	1
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 221	CALCULUS I INDUST OR BUS	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
Humanities & Fine Arts Option		3
Pathway Option		3
BIZ 201	INTRODUCTION TO BUSINESS	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3

GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
BIZ 350	BUSINESS COMMUNICATIONS	3
ECO 256	BUSINESS STATISTICS I	3
MKT 351	MARKETING MANAGEMENT	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 334	SUPPLY CHAIN MANAGEMENT	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ECO 356	BUSINESS STATISTICS II	3
FIN 320	BUSINESS FINANCE	3
MKT 448	MARKETING CHANNELS	3
MNGT 353	PRODCNTN&OPERATIONS MGMNT	3
SCM 410	Quality Management	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
MNGT 482	BUSINESS ETHICS	3
SCM 420	Strategic Procurement	3
SCM 430	Project Management	3
GB 463 Business Analytics		3
Any 300-400 Level International Business Course		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MNGT 458	STRATEGIC MANAGEMENT	3
SCM 450	Logistics	3
SCM 460	Risk Management	3
SCM 480	Supply Chain in Practice	3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from BIZ 101 UNIVERSITY SUCCESS FOR BUS MAJ and BIZ 102 UNIVERSITY SUCCESS FOR BUS MAJ; however, the student must take 2 hours of non-business electives to replace the BIZ courses.
- Online Graduation Clearance (**to be completed during the graduating semester only**).
- Students will demonstrate a solid foundation in applying the financial principles of the time value of money.
- Students will be able to evaluate a large and complex business problem, make some assumptions, structure the firms' cash flows and make a decision.
- Students will demonstrate knowledge and application of various investment instruments.
- Students will demonstrate knowledge of risk and returns in evaluation of portfolios performance.
- Students will be able to demonstrate how international business activities influence financial decisions.
- Students will develop and demonstrate oral and written communication skills with focus on effectiveness, clarity, and sophistication.

- Students will be able to demonstrate an understanding of the processes involved in ethical decision making in personal, professional, and civic life.
- Students will be able to demonstrate an understanding of the dynamics of the global economy.
- Students will be able to demonstrate competency with utilizing information technology.
- Students will be able to develop and strengthen critical thinking skills in conjunction with quantitative analysis.
- Students will develop an awareness of multiculturalism and diversity understanding.
  - Students will further demonstrate mastery of basic knowledge concerning the importance of cultural values and diversity and the impact these factors have on business organizations.
  - Students will demonstrate a clear understanding of knowledge of different cultures as they relate to diversity.
- Students will develop an awareness to recognize the dynamics of the global markets and its impact on a global economy.
  - Students will further demonstrate an understanding of the process of making business recommendations after reviewing external and internal industry information.
  - Students will demonstrate the ability to explain how various economic and market outcomes exists and how businesses respond to those nuances.
- Students will demonstrate proficiency in using information technology.
  - Students will demonstrate proficiency in using business productivity software.
  - Students will demonstrate proficiency in the techniques used in the collect, present, manipulate, and interpret numerical data.

## Marketing Minor

The Minor in Marketing for Non-Business Majors provides a general study of Marketing to students in Majors outside of Business. This enables students to gain a core understanding of Marketing without making it the center of their education. Students will learn how to apply marketing concepts through the use of case studies and organizational projects on business as well as non-profit organizations. Students will also gain understanding of consumer behavior, along with the knowledge and tool needed to coordinate marketing elements into integrated campaigns.

A minimum of 18 credit hours is required for the Minor in Marketing for Non-Business Majors.

Code	Title	Hours
BIZ 201	INTRODUCTION TO BUSINESS	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
MKT 351	MARKETING MANAGEMENT <sup>1</sup>	3
MKT 432	ADVERTISING <sup>2</sup>	3
or MKT 448	MARKETING CHANNELS	
MKT 440	CONSUMER BEHAVIOR <sup>2</sup>	3
MKT 450	PERSONAL SELLING <sup>2</sup>	3
<b>Total Hours</b>		<b>18</b>

<sup>1</sup> ECO 211 PRINCIPLES OF MACROECONOMICS is a prerequisite for MKT 351 MARKETING MANAGEMENT. Students interested in taking the Minor in Marketing for Non-Business Majors, need to take

ECO 211 PRINCIPLES OF MACROECONOMICS before taking MKT 351 MARKETING MANAGEMENT.

<sup>2</sup> MKT 351 MARKETING MANAGEMENT is a prerequisite for MKT 432 ADVERTISING, MKT 448 MARKETING CHANNELS, MKT 440 CONSUMER BEHAVIOR, and MKT 450 PERSONAL SELLING. Students interested in taking the Minor in Marketing for Non-Business Majors, need to take MKT 351 MARKETING MANAGEMENT before taking the upper level Marketing courses.

## Student Learning Outcomes

- Students will demonstrate a solid foundation in applying the financial principles of the time value of money.
- Students will be able to evaluate a large and complex business problem, make some assumptions, structure the firms' cash flows and make a decision.
- Students will demonstrate knowledge and application of various investment instruments
- Students will demonstrate knowledge of risk and returns in evaluation of portfolios performance
- Students will be able to demonstrate how international business activities influence financial decisions.
- Students will develop and demonstrate oral and written communication skills with focus on effectiveness, clarity, and sophistication.
- Students will be able to demonstrate an understanding of the processes involved in ethical decision making in personal, professional and civic life.
- Students will be able to demonstrate an understanding of the dynamics of the global economy.
- Students will be able to demonstrate competency with utilizing information technology.
- Students will be able to develop and strengthen critical thinking skills in conjunction with quantitative analysis.
- To develop an awareness of multiculturalism and diversity understanding.
  - To demonstrate mastery of basic knowledge concerning the importance of cultural values and diversity and the impact these factors have on business organizations.
  - To demonstrate a clear understanding of knowledge of different cultures as they relate to diversity.
- To develop an awareness to recognize the dynamics of the global markets and its impact on global economy.
  - To demonstrate an understanding of the process of making business recommendations after reviewing external and internal industry information.
  - To demonstrate the ability to explain how various economic and market outcomes exists and how businesses respond to those nuances.
- To demonstrate competency with utilizing information technology.
  - To demonstrate a competency regarding business productivity software.
  - To demonstrate competency concerning the techniques used in the collection, presentation, manipulation and interpretation of numerical data.

## College of Education and Human Development

Dr. Tony Latiker

Interim Dean

tony.t.latiker@jsums.edu (tracy.l.harris@jsums.edu)

601-979-0300

The College of Education and Human Development has as its primary purpose and responsibility the development, administration, supervision, and evaluation of programs in teacher education and other related human services which support the teaching profession and the mission of the University. It offers programs of professional training in non-teaching areas such as counseling, rehabilitative services, and recreation leadership. More specifically, the College of Education and Human Development is responsible for developing and administering quality, comprehensive, career-oriented programs which attract culturally and economically diverse students into the fields of early childhood education, elementary education, secondary education, health and physical education, recreation, special education, social science education, educational administration and supervision and guidance and counseling. Further, the College of Education and Human Development:

1. emphasizes inquiry, research, and publication;
2. promotes faculty, staff, and student development programs;
3. provides ongoing programs for the education community, and promotes cooperation and collaboration between the College of Education and Human Development and other education or human service agencies at the local, state, national and international levels; and
4. seeks external assistance to aid in the support of its program offerings.

## College Accreditations

The College of Education and Human Development's teacher education programs are accredited by the Council for Accreditation of Educator Preparation (CAEP). The Clinical Mental Health, Rehabilitation Counseling, and School Counseling programs are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP).

## Vision

The vision of the College of Education and Human Development is to be the premier urban institution of choice within the state of Mississippi, the region, and the nation for the preparation of teachers, counselors and mental health professionals, professional development specialists, school leaders, and other school-related professional practitioners with the latest in technology, best practices and as responsive educators with adaptive expertise.

## Mission

The mission of the College of Education and Human Development is to employ teaching, research and service within an urban learning community, and to prepare practitioners from diverse backgrounds for outstanding professional service through the development of solutions to potential or existing challenges facing urban institutions.

## Centers & Organizations

### Lottie W. Thornton Early Childhood Center

The Lottie W. Thornton Early Childhood Center provides childcare services for faculty, students, and the general community. The Center currently serves students ages 3 and 4 and serves as a training ground for the College of Education and Human Development's education programs. The Center offers diversified laboratory experiences for graduate and undergraduate students who are studying the cognitive, psychomotor, and social development of young children.

### Professional Test Preparation Center

The Professional Test Preparation Center is designed to facilitate the College of Education and Human Development's efforts to improve the performance of undergraduate and graduate students on standardized tests. General testing strategies, thinking, reading, and writing skills are emphasized. The center is used widely for assisting students with Praxis preparation.

### Cleopatra D. Thompson Curriculum Center

The Cleopatra D. Thompson Curriculum Center provides a variety of multimedia resources, professional and instructional materials, and related equipment to support faculty and students in the College of Education and Human Development. The Center serves the objectives of programs in the College by locating, collecting, organizing, promoting, and distributing learning resources for use by faculty and students. It also provides facilities for assistance in the production of instructional materials, displays, and demonstrations.

### Center for Teacher Quality

The Center for Teacher Quality (CTQ) provides administrative oversight for teacher education programs and has the primary responsibility for coordinating admissions to teacher education and field-based experiences. The CTQ is responsible for facilitating the delivery of required and structured clinical and field-based experiences at both the basic and the advanced levels. Thus, all internships, field, clinical, and student teaching experiences operate under the auspices of this office. Students who have completed at least 44 hours in their core curriculum and maintained a 2.75-grade point average may be eligible for admission to teacher education. For complete admissions requirements please visit the Center for Teacher Quality's website at <https://www.jsums.edu/teacherquality/>. Please note that admission to the Teacher Education Program does not guarantee admission to student teaching. Supervised student teaching is required for teacher certification by the Mississippi Department of Education (MDE) and most other states.

The Center for Teacher Quality also manages the Professional Education Council (PEC). Teacher education programs in various disciplines (Elementary Education, English, History, Math, Physics, etc.) are overseen by the Professional Education Council (PEC). The PEC consists of related faculty representatives and also includes opportunities for undergraduate student representatives to participate in reviewing and approving curriculum changes. The PEC's major functions include ensuring the overall quality of programs and that state certification standards as well as national specialty area association's standards are met. Meetings of the Council are held a minimum of three times each semester during the fall and spring. If you are interested in participating, please contact your department chair.



## Professional Licensure and Disclosure Statement

The following programs may lead to a professional license or certification that is required for employment. Professional licensure/certification requirements vary from state to state, which may affect a student's ability to apply for a professional license/certification upon the completion of the program. The U.S. Department of Education regulation, 34 CFR 668.43 (a) (5) (v) (<https://www.federalregister.gov/documents/2019/11/01/2019-23129/student-assistance-general-provisions-the-secretarys-recognition-of-accrediting-agencies-the/#p-981>), requires an institution to disclose whether the program will fulfill educational requirements for licensure or certification for each state. The administrative departments that offer the programs have made the following determination regarding their curriculum.

- Counseling Education (<https://www.jsums.edu/education/files/2020/09/Counseling.docx.pdf>)
- Educational Leadership (<https://www.jsums.edu/education/files/2020/09/Educational-Leadership.pdf>)
- Elementary Education (<https://www.jsums.edu/education/files/2020/09/Elementary-Ed.-1.pdf>)
- English Education (<https://www.jsums.edu/education/files/2020/09/ENGLISH-ED-1.pdf>)
- Health Education (<https://www.jsums.edu/education/files/2020/09/Health-Education.pdf>)
- History Education (<https://www.jsums.edu/education/files/2020/09/History-Ed-1.pdf>)
- Master of Arts in Teaching (<https://www.jsums.edu/education/files/2020/09/MAT.pdf>)
- Math Education (<https://www.jsums.edu/education/files/2020/09/Math-Ed.pdf>)
- Music Education (<https://www.jsums.edu/education/files/2020/09/Music-Ed-1-1.pdf>)
- Social Science Education (<https://www.jsums.edu/education/files/2020/09/Social-Science.pdf>)
- Special Education (<https://www.jsums.edu/education/files/2020/09/Special-Education-.pdf>)
- Physical Education (<https://www.jsums.edu/education/files/2020/09/Physical-Education.pdf>)
- Physics Education (<https://www.jsums.edu/education/files/2020/09/Physics-Educations-.pdf>)
- Therapeutic Recreation (<https://www.jsums.edu/education/files/2020/09/Therapeutic-Recreation-1.pdf>)

The Mississippi Department of Education's licensure requirements may periodically change. To review current licensure guidelines, please visit the following link: <https://www.mdek12.org/OEL> (<https://www.mdek12.org/OEL/>). A background check is required by most school districts prior to employment.

- Department of Educational, Multicultural, and Exceptional Studies (p. 64)
- Department of Elementary and Early Childhood Education (p. 69)
- Department of Health, Physical Education, and Recreation (p. 73)
- School of Lifelong Learning (p. 77)

## Department of Educational, Multicultural, and Exceptional Studies

Dr. Dennis D. Williams  
Interim Department Chairperson  
Jackson State University  
College of Education and Human Development  
Joseph H. Jackson College of Education Building, Room 309  
Office: (601) 979-2439

Email Address: [dennis.d.williams@jsums.edu](mailto:dennis.d.williams@jsums.edu)

## Faculty of Department

D. Myrie, T. Otieno, D. Williams, A. Yeboah-Ohwofasa,

## Introduction/Mission

The mission of the Department of Educational, Multicultural, and Exceptional Studies is to provide academic and professional training that leads to licensure in Special Education, Social Studies Education, and alternate route Teacher Education. The department develops candidates who are committed to becoming responsive educational leaders, researchers, and advocates, who embody the content knowledge expertise, pedagogical skills, and professional dispositions to educate diverse populations of students. The Educational, Multicultural, and Exceptional Studies Department includes academic programs that offer undergraduate degrees in Social Science Education (licensure), Social Science with a concentration in Ethnic Studies (non-licensure), Special Education (licensure), and Special Education with a concentration in Disability Studies (non-licensure).

## Objectives

The objectives for undergraduate programs in the Department of Educational, Multicultural, and Exceptional Studies are:

1. To support teacher candidates as they become responsive educational leaders, researchers, and advocates;
2. To provide updated curricula that embodies the content knowledge expertise and pedagogical skills needed for the 21st century classroom educator;
3. To foster an intellectual environment that is conducive to developing dispositions that are necessary to educate a diverse population of students.

## Accreditation

The academic programs within the EMES Department are accredited by the following agencies:

- Council for the Accreditation of Educator Preparation (CAEP)
- Council for Exceptional Children (CEC)
- National Council for Social Studies (NCSS)

The teacher preparation programs within the EMES Department are approved by the Mississippi Department of Education.

## Admission Criteria and Other Requirements/Offerings

All Social Science Education and Special Education majors enrolled in teacher preparation programs (educator licensure/certification programs) must:

- Complete a two-semester clinical experience for student teaching. This clinical experience will not increase the number of required completion hours (121-124 hours (about 5 days) for graduation.
- Have a grade point average of 2.75 or higher to be admitted to the Center for Teacher Quality—the academic program through which the educator licensure is obtained. For additional information please see the JSU Center for Teacher Quality (<https://www.jsums.edu/teacherquality/>).
- Complete all Teacher Certification Tests (Praxis Core Academic Skills for Educators, Principles of Learning and Teaching, Praxis II-Content Knowledge) to enroll for selected restricted courses. (Refer to the Approved Curriculum Map)
- Not enroll in EDCI 401 Unit Planning, Assessment, and Classroom Management and EDCI 402 CLINICAL INTERNSHIP IN STD TCH during the same semester.
- Submit to a criminal background check prior to receiving a clinical internship placement for student teaching. The fee associated with this screening is the responsibility of the teacher candidate.
- Special Education majors have the following additional requirement: Pass a Departmental Undergraduate Comprehensive Examination (Contact Faculty Mentor).

## Bachelor

- Social Science (B.S.E.D.) Ethnic Studies Concentration (p. 65)
- Social Science Education (B.S.E.D.) (p. 66)
- Special Education (B.S.) Mild-Moderate Disabilities Concentration (p. 67)

## Social Science (B.S.E.D.) Ethnic Studies Concentration

### Objectives

The objectives of the EMES Department's *Social Science Education Ethnic Studies Concentration (Non-licensure)* are to guide students:

- To demonstrate knowledge of how to utilize knowledge of social science and social studies in planning and implementing effective lessons.
- To develop understanding of the basic logical processes and resources useful in information retrieval.
- To serve as facilitators for the total process of growing and learning.
- To locate, interpret, and apply research pertinent to social, cultural, and educational problems.
- To investigate and analyze the dynamic relationship between schooling, education, diverse cultures and societies with interpretive, normative, critical and comparative theory and methods.
- To derive the greatest benefit from classroom experiences as prepared prospective teachers skilled in the techniques of instruction.

## Major Requirements

Code	Title	Hours
SS 111	ETHNIC STUDIES SURVEY-BLACKS	3
SS 201	SOCIAL INSTITUTIONS	3
SS 202	ECONOMIC INSTITUTIONS	3
SS 203	HISTORICAL&CULTURAL FOUNDATNS	3
SS 211	ETHCS STU SUR - IND & SPAN SPK	3
SS 212	ETH STUDS SUR-JEWISH & ORIENTA	3
SS 401	SOCIAL SCIENCE METHODS	3
SS 443	SEMINAR IN SOCIAL SCIENCE	3
SS 412	INTERNSHIP IN ETHNIC STUDIES	9
HIST 201 & 201	UNITED STATES HISTORY I and UNITED STATES HISTORY I	6
HIST 325	HIST OF MISSISSIPPI	3
ECO 211 & ECO 212	PRINCIPLES OF MACROECONOMICS and PRINCIPLES OF MICROECONOMICS	6
PS 135	AMERICAN GOVERNMENT	3
Social Science Content Knowledge Electives		9

**Total Hours** **60**

(Note: See the approved curriculum map for additional program requirements.)

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
SS 111	ETHNIC STUDIES SURVEY-BLACKS	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Art Option		3
Natural Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
EDCI 100	INTRODUCTION TO EDUCATION	3
PS 135	AMERICAN GOVERNMENT	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>18</b>
<b>Sophomore</b>		
<b>Fall</b>		
SS 201	SOCIAL INSTITUTIONS	3
SS 211	ETHCS STU SUR - IND & SPAN SPK	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
SS 202	ECONOMIC INSTITUTIONS	3
SS 212	ETH STUDS SUR-JEWISH & ORIENTA	3
RE 204	PRE-READNG SKLS F/PRESCHLRS &E	3
UNIV 200	CIVIC ENGAGEMENT	1
Social & Behavioral Science Option		3

Pathway Option		3
Hours		16
<b>Junior</b>		
<b>Fall</b>		
HIST 201	UNITED STATES HISTORY I	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
COUN 315	Human Growth and Development	3
SS 203	HISTORICAL&CULTURAL FOUNDATNS	3
Hours		15
<b>Spring</b>		
HIST 202	UNITED STATES HISTORY II	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
SPED 311	EXCEP CHILD &YOUTH IN THE SCHO	3
SS 311	ETHNIC STUDIES CURRO DEV	3
Geography Elective		3
Hours		15
<b>Senior</b>		
<b>Fall</b>		
HIST 325	HIST OF MISSISSIPPI	3
SS 401	SOCIAL SCIENCE METHODS	3
SS 443	SEMINAR IN SOCIAL SCIENCE	3
Sociology Elective (300-400 Level)		3
Philosophy Elective		3
Hours		15
<b>Spring</b>		
SS 412	INTERNSHIP IN ETHNIC STUDIES	9
Sociology Elective (300-400 Level)		3
Hours		12
<b>Total Hours</b>		<b>123</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

Upon completion of the Social Science Education Ethnic Studies Concentration (Non-licensure) students will be able to:

- Define and explain key concepts related to racial and cultural studies such as colonialism, oppression, slavery, privilege, sexism, colorblindness, multiculturalism, diversity, tolerance, anti-racism.
- Use research to examine how historical and contemporary forces shape constructions of race, ethnicity, and social problems over time.
- Discuss and comparatively analyze the experiences of contact, conquest, and resistance of at least four United States racial/ethnic groups
- Develop curricula and programs related to multicultural and multiethnic history, diversity, and social justice.
- Construct an advocacy plan for racial/ethnic groups and/or social issues while interning (or serving) within a community-based agency.

## Social Science Education (B.S.E.D.) Objectives

The objectives of the EMES Department's Social Science Education Program are to guide students:

- To demonstrate knowledge of how to utilize knowledge of social science and social studies in planning and implementing effective lessons.
- To develop understanding of the basic logical processes and resources useful in information retrieval.
- To serve as facilitators for the total process of growing and learning.
- To locate, interpret, and apply research pertinent to social, cultural, and educational problems.
- To investigate and analyze the dynamic relationship between schooling, education, diverse cultures and societies with interpretive, normative, critical and comparative theory and methods.
- To derive the greatest benefit from classroom experiences as prepared prospective teachers skilled in the techniques of instruction.

## Major Requirements

Code	Title	Hours
SS 111	ETHNIC STUDIES SURVEY-BLACKS	3
SS 201	SOCIAL INSTITUTIONS	3
SS 203	HISTORICAL&CULTURAL FOUNDATNS	3
SS 301	INQRY-BASED INSTRN N GEOG & CE	3
SS 401	SOCIAL SCIENCE METHODS	3
SS 443	SEMINAR IN SOCIAL SCIENCE	3
HIST 201 & 201	UNITED STATES HISTORY I and UNITED STATES HISTORY I	6
HIST 325	HIST OF MISSISSIPPI	3
ECO 211 & ECO 212	PRINCIPLES OF MACROECONOMICS and PRINCIPLES OF MICROECONOMICS	6
PS 135	AMERICAN GOVERNMENT	3
GEOG, PHIL, SOC	Social Science Content Knowledge Electives	9
RE 310	TCHNG READING IN CONTENT AREAS	3
SPED 311	EXCEP CHILD &YOUTH IN THE SCHO	3
EDCI 100	INTRODUCTION TO EDUCATION	3
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
<b>Total Hours</b>		<b>72</b>

Note: See the 2022 curriculum map for additional general education and program requirements.

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
SS 111	ETHNIC STUDIES SURVEY-BLACKS	3
MATH 111 or MATH 114	COLLEGE ALGEBRA or Quantitative Reasoning	3

UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
EDCI 100	INTRODUCTION TO EDUCATION	3
HE 102	CONCEPTS OF HEALTH FOR TEACHER	3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
PS 135	AMERICAN GOVERNMENT	3
SS 203	HISTORICAL&CULTURAL FOUNDATNS	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
SS 201	SOCIAL INSTITUTIONS	3
PSY 201	GENERAL PSYCHOLOGY	3
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
COUN 315	Human Growth and Development	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
HIST 201	UNITED STATES HISTORY I	3
Geography Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ECO 212	PRINCIPLES OF MICROECONOMICS	3
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
HIST 202	UNITED STATES HISTORY II	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
SS 301	INQRY-BASED INSTR N GEOG & CE	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
EDCI 401	Unit Planning, Assessment, and Classroom Management <sup>2</sup>	3
HIST 325	HIST OF MISSISSIPPI	3
RE 310	TCHNG READING IN CONTENT AREAS <sup>2</sup>	3
SS 401	SOCIAL SCIENCE METHODS	3
SS 443	SEMINAR IN SOCIAL SCIENCE	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
EDCI 402	CLINICAL INTERNSHIP IN STD TCH <sup>1</sup>	12
Sociology Elective (300-400 Level)		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>123</b>

<sup>1</sup> Restricted course that requires full admission to Teacher Education before enrollment.

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

Upon completion of the Social Science Education Program students will be able to:

- Recall essential content knowledge, concepts, and tools of the social science discipline(s) that he/she will teach.
- Integrate self-reflection and knowledge of the social and cultural factors (race, gender, class, inequity, diversity, and social justice) that impact schools and communities to discuss and develop appropriate responses to social and/or educational problems and teaching scenarios.
- Design oral presentations using effective communication, educational technology, and social studies instructional strategies to foster inquiry and engagement of learners.
- Write formal and informal assessments to promote the continuous intellectual growth, social development, and civic competence of students.
- Develop a unit plan (five sequenced social studies lessons) that aligns with the required national and state standards for Social Studies.

## Special Education (B.S.) Mild-Moderate Disabilities Concentration Objectives

The EMES Department's *Special Education* academic program objectives are:

- To prepare personnel for staffing special education and disabilities services positions in schools and other related human resource agencies.
- To offer a comprehensive curriculum that incorporates a variety of experiences including campus-based experiences (micro-teaching clinics, case studies, computer-assisted instruction, as well as field-based experiences— student teaching, internships, tutoring, etc.).
- To facilitate student development by broadening the knowledge base in which the curriculum is based by attending conferences, workshops, seminars and participating in collaborative activities with other community agencies (public schools, human resource agencies, etc.).
- To enhance students' ability to work with individuals with disabilities and culturally diverse populations through selected research, teaching, and field-based experiences.
- To accommodate students from various ethnic backgrounds through an open, multi-cultural approach to Special Education personnel preparation.

## Major Requirements

Code	Title	Hours
SPED 304	ORGAN PROC FOR SPEC EDUC	3
SPED 307	BEHAVIOR MANAGEMNT FOR EX CHIL	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
SPED 339	VOC CAREER PLANN FOR EXCEP ADO	3
SPED 420	INTRO TO ASSISTIVE TECHNOLOGY	3
SPED 422	TCHNG CHILD W MILD/MOD DISABIL	3
SPED 428	EDUCATIONAL ASSESSMENT	3
SPED 430	TCHG CHILD W INTELLECTL DISABI	3
SPED 432	TEACHING CHILD W LEARNING DIS	3
SPED 499	SEM IN THE MLDY/MDRY HANDICAPP	3
EDCI 100	INTRODUCTION TO EDUCATION	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
<b>Total Hours</b>		<b>48</b>

See the approved curriculum maps provided below.

## Curriculum Map: Special Education Concentration: Mild/Moderate Disability

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
<b>Begin PRAXIS I Core Workshops</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
UNIV 100	UNIVERSITY SUCCESS	2
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
<b>Register for PRAXIS I Core Exam</b>		
EDCI 100	INTRODUCTION TO EDUCATION	3
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ART 301 or MUS 203	ART FOR CHILDREN or MUSIC FOR CHILDREN	3
RE 309	EARLY LITERACY I	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
COUN 315	Human Growth and Development	3
ENG 218	ADVANCE COMPOSITION	3
MATH 226	CONCEPTS & STRUCS OF MATH I	3
SS 203	HISTORICAL&CULTURAL FOUNDATNS	3
UNIV 200	CIVIC ENGAGEMENT	1

Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
<b>Begin PRAXIS PLT Workshops</b>		
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
RE 312	EARLY LITERACY II	3
SPED 304	ORGAN PROC FOR SPEC EDUC	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
SPED 339	VOC CAREER PLANN FOR EXCEP ADO	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
<b>Register for PRAXIS PLT Exam</b>		
RE 310	TCHNG READING IN CONTENT AREAS	3
RE 311	Strategies and Techniques for Teaching English Language Arts and Literacy in Elementary Schools	3
SPED 420	INTRO TO ASSISTIVE TECHNOLOGY	3
SPED 422	TCHNG CHILD W MILD/MOD DISABIL	3
SPED 428	EDUCATIONAL ASSESSMENT	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
EDCI 401	Unit Planning, Assessment, and Classroom Management <sup>1</sup>	3
SPED 430	TCHG CHILD W INTELLECTL DISABI	3
SPED 432	TEACHING CHILD W LEARNING DIS	3
SPED 450	TCHG CHLDN W EMO & BEH DISORDE	3
SPED 499	SEM IN THE MLDY/MDRY HANDICAPP	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
EDCI 402	CLINICAL INTERNSHIP IN STD TCH <sup>1</sup>	12
SPED 307	BEHAVIOR MANAGEMNT FOR EX CHIL	3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> Restricted until PRAXIS CORE is attempted. RC=Restricted courses that require admission to Teacher Education.

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Learning Outcomes

Upon completion of the Special Education program, students will be able to:

- Demonstrate knowledge of special education content, concepts, and tools.
- Demonstrate knowledge of the basic principles of special education by responding to questions based on the CEC standards.
- Create a plan for instruction using those components that contain information on where and how students reach identified goals and objectives (Design for Instruction Module).
- Assess, plan, develop and implement the Individualized Education Plan (IEP) as part of a collaborative effort among families, students, and colleagues.

## Department of Elementary and Early Childhood Education

Dr. Stephanie. Davidson-Herndon, Chair and Associate Professor  
 P.O. Box 18380  
 Telephone: (601) 979-2341  
 Fax: (601) 979-2178  
 e-mail: stephanie.r.davidson@jsums.edu

### Faculty of the Department

Dr. K. Bennett, Assistant Professor  
 Dr. K. Bryant, Associate Professor  
 Dr. K. Catchings Shelby, Assistant Professor  
 Dr. S. Davidson-Herndon, Associate Professor  
 Dr. T. Dixon, Assistant Professor  
 Dr. T. Flowers, Assistant Professor  
 Dr. K. Horne, Assistant Professor  
 Dr. T. Latiker, Associate Professor  
 Dr. L. Opara-Nadi, Assistant Professor  
 Dr. J. Yin, Professor

### Introduction/Mission

The Department of Elementary and Early Childhood Education (EECE) offers three undergraduate programs to include:

- Childcare and Family Education (Non-Licensure)
- Elementary Education K-3
- Elementary Education K-6.

The mission of the Department of Elementary and Early Childhood Education (EECE) is to prepare responsive and effective educators for working with learners of all ages, infancy through adulthood. The department sponsors the Student Education Association (SEA) also known as Aspiring Educators and the EECE Club which are open to all education majors.

### Objectives

The objectives for undergraduate programs in the Department of Elementary and Early Childhood Education are to produce educators who:

1. Are responsive in the field of Early Childhood and Elementary Education;
2. View the profession of education as most influential in the advancement of mankind; and
3. Understand and have as a primary goal to help children develop into productive citizens who will enhance the advancement of humanity.

Courses and experiences support the development of independent thinking, effective communication, professional collaborating, effective participation in the education system, and professional ethics.

### Accreditation

The Elementary Education K-3 and K-6 programs are accredited by the Council for the Accreditation of Educator Preparation (CAEP).

### Other Requirements

All EECE majors must:

- Pass the Undergraduate English Proficiency Examination
- Complete 120 Hours of Community Service or Service Learning (60 Hours for Transfer Students).
- Earn a C or better in all major (EDCI and RE) courses; Elementary Education majors must earn a C or better in all major and core courses as denoted by the Center for Teacher Quality (Teacher Education Admission policies).

Students pursuing a major in Elementary Education (educator licensure programs) must:

- Select one of two options:
  - Bachelor of Science in Education for Elementary Education: Grades K-3 *or*
  - Bachelor of Science in Education for Elementary: Grades K-6 (Includes 18 hours of concentration courses in English, Science, Social Science.)
- Earn a grade point average (GPA) of 2.75 or higher *and* complete a minimum of 44 hours of the core curriculum to become eligible for Teacher Education Admission through the Center for Teacher Quality. Teacher Education is the academic program through which educator licensure is obtained. For additional information please refer to the Center for Teacher Quality.
- Complete all educator preparation examinations (Praxis Core Academic Skills for Educators, Principles of Learning and Teaching, Praxis II - Content Knowledge, Foundations of Reading) to enroll for selected restricted courses as denoted on the departmental curriculum sheets.
- Pass a criminal background check prior to receiving a clinical internship placement for student teaching. The fee associated with this screening is the responsibility of the teacher candidate.
- Complete a two semester clinical internship for student teaching. This clinical experience will not increase the number of required completion hours (122 hours for graduation for K-3 and K-6 majors).

### Bachelor

- Childcare and Family Education (B.S.) (p. 69)
- Elementary Education K-3 (B.S.E.D.) (p. 70)
- Elementary Education K-6 (B.S.E.D.) (p. 72)

## Childcare and Family Education (B.S.)

### Major Requirements

Code	Title	Hours
EDCI 100	INTRODUCTION TO EDUCATION	3
EDCI 120	PRACTICAL CHILDCARE EXPERIENCE	3
EDCI 121	INVTNS,PROB&ISS IN CHDCR	3
EDCI 122	FMLY DYNAM&INTRPRNL SKILLS	3
EDCI 208	MTHDS & MTRLS OF ERLY CH	3
EDCI 220	TCHG&LRNG STYLES YOUNG CHILDR	3
EDCI 221	ADMIN OF CHILDCARE SERVICES	3
EDCI 303	PARENTS,CHILD &TEACHRS INTRACT	3
EDCI 305	CHILD GUIDANCE & CLASSROOM MA	3
EDCI 320	FIELD EXPERIENCE IN CHILDCARE	3
EDCI 400	THEORY&PRIN IN EARLY CHD	3
RE 204	PRE-READNG SKLS F/PRESCHLRS &E	3

RE 301	CHILDREN'S LITERATURE	3
<b>Total Hours</b>		<b>39</b>

*The B.S. Childcare and Family Education program does not lead to eligibility for educator licensure.*

Course	Title	Hours
<b>Freshman</b>		
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
EDCI 100	INTRODUCTION TO EDUCATION	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>

<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111 or MATH 114	COLLEGE ALGEBRA or Quantitative Reasoning	3
UNIV 100	UNIVERSITY SUCCESS	2
Social & Behavioral Science Option		3
Humanities & Fine Arts Option		3
Natural Science Option		3
<b>Hours</b>		<b>17</b>

<b>Sophomore</b>		
<b>Spring</b>		
EDCI 122	FMLY DYNAM&INTRPRNL SKILLS	3
EDCI 208	MTHDS & MTRLS OF ERLY CH (Spring Only)	3
ENG 218	ADVANCE COMPOSITION	3
MUS 203	MUSIC FOR CHILDREN	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>

<b>Fall</b>		
EDCI 120	PRACTICAL CHILDCARE EXPERIENCE	3
EDCI 121	INVTNS,PROB&ISS IN CHDCR	3
PSY 201	GENERAL PSYCHOLOGY	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>

<b>Junior</b>		
<b>Spring</b>		
EDCI 220	TCHG&LRNG STYLES YOUNG CHILDR	3
EDCI 303	PARENTS,CHILD &TEACHRS INTRACT	3
MATH 226	CONCEPTS & STRUCS OF MATH I	3
EDCI 221	ADMIN OF CHILDCARE SERVICES	3
SPED 311	EXCEP CHILD &YOUTH IN THE SCHO	3
<b>Hours</b>		<b>15</b>

<b>Fall</b>		
ART 301	ART FOR CHILDREN	3
ETEC 336	ADV MULTIMEDIA IN CLASSROOM	3
RE 204	PRE-READNG SKLS F/PRESCHLRS &E	3
RE 301	CHILDREN'S LITERATURE	3
SS 203	HISTORICAL&CULTURAL FOUNDATNS	3
<b>Hours</b>		<b>15</b>

<b>Senior</b>		
<b>Spring</b>		
ENG 401	LANGUAGE ARTS IN ELEMEN SCHOOL	3
PE 445	PHY EDUC IN ELEM SCHOOL	3

SCI 401	SCIENCE FOR CHILDREN	3
SS 401	SOCIAL SCIENCE METHODS	3
<b>Hours</b>		<b>12</b>

<b>Fall</b>		
EDCI 305	CHILD GUIDANCE & CLASSROOM MA	3
EDCI 320	FIELD EXPERIENCE IN CHILDCARE	3
EDCI 400	THEORY&PRIN IN EARLY CHD	3
EDCI 221	ADMIN OF CHILDCARE SERVICES	3
PSY 304	CHILD PSYCHOLOGY	3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> Fall Only.

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Outcomes

- Plan, write, and implement related thematic content lessons for all early learners.
- Construct and present a collaborative plan to advocate the needs of children, parents, and families.
- Generate developmentally appropriate instructional designs through observation and practice.

## Elementary Education K-3 (B.S.E.D.)

### Major Requirements

Code	Title	Hours
EDCI 100 & EDCL 100	INTRODUCTION TO EDUCATION and INTRO TO EDUCATION LAB	3
EDCI 306	EDUCATIONAL PSYCHOLOGY	3
EDCI 200	Elementary Mathematics Methods	3
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
EDCI 400	THEORY&PRIN IN EARLY CHD	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
RE 204	PRE-READNG SKLS F/PRESCHLRS &E	3
RE 309	EARLY LITERACY I	3
RE 310	TCHNG READING IN CONTENT AREAS	3
RE 311	Strategies and Techniques for Teaching English Language Arts and Literacy in Elementary Schools	3
RE 455	DIAG RD INST N/SECDY SCH	3
<b>Total Hours</b>		<b>45</b>

#### Other Requirements

- Earn a grade of C or better in all major (EDCI and RE) courses; Elementary Education majors must earn a grade of C or better in all major and core courses as required by the Teacher Education Admission policies.

- Students pursuing a major in Elementary Education (educator licensure programs) must:
- Select one of two options: Bachelor of Science in Education for Elementary Education: Grades K-3 or
- Bachelor of Science in Education for Elementary: Grades K-6 (Includes 18 hours of concentration courses in English, Science, or Social Science.)
- Earn a grade point average (GPA) of 2.75 or higher and complete a minimum of 44 hours of the core curriculum to become eligible for Teacher Education Admission through the Center for Teacher Quality. Teacher Education is the academic program through which educator licensure is obtained. For additional information please refer to the Center for Teacher Quality.
- Complete all educator preparation examinations (Praxis Core Academic Skills for Educators, Principles of Learning and Teaching, Praxis II - Content Knowledge, Foundations of Reading) to enroll for selected restricted courses as denoted on the departmental curriculum sheets.
- Pass a criminal background check prior to receiving a clinical internship placement for student teaching. The fee associated with this screening is the responsibility of the teacher candidate.
- Complete a two-semester clinical internship for student teaching. This clinical experience will not increase the number of required completion hours (122 hours are required for the completion of the Elementary Education K-3 and K-6 for graduation for K3 and K-6 curriculums).

MATH 226	CONCEPTS & STRUCS OF MATH I	3
RE 204	PRE-READNG SKLS F/PRESCHLRS &E	3
SPED 311	EXCEP CHILD &YOUTH IN THE SCHO	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3

**Hours** **16**

**Junior**

**Fall**

**Begin PRAXIS II Preparation**

EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
MATH 306	ELEMENTARY CONCEPTS OF GEOMETR	3
RE 309	EARLY LITERACY I <sup>1</sup>	3
RE 312	EARLY LITERACY II <sup>1</sup>	3

**Hours** **15**

**Spring**

**Register for PRAXIS II EXAMS: PLT, CIA & Foundations of Reading**

ART 301	ART FOR CHILDREN	3
COUN 315	Human Growth and Development	3
RE 310	TCHNG READING IN CONTENT AREAS <sup>1</sup>	3
RE 311	Strategies and Techniques for Teaching English Language Arts and Literacy in Elementary Schools <sup>1</sup>	3
SS 301	INQRY-BASED INSTRN N GEOG & CE	3

**Hours** **15**

**Senior**

**Fall**

EDCI 400	THEORY&PRIN IN EARLY CHD	3
EDCI 401	Unit Planning, Assessment, and Classroom Management <sup>2</sup>	3
RE 455	DIAG RD INST N/SECDDY SCH <sup>2</sup>	3
SCI 401	SCIENCE FOR CHILDREN	3
SS 401	SOCIAL SCIENCE METHODS	3

**Hours** **15**

**Spring**

EDCI 402	CLINICAL INTERNSHIP IN STD TCH <sup>2</sup>	12
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**Hours** **12**

**Total Hours** **120**

<sup>1</sup> Restricted until PRAXIS CORE is attempted.  
<sup>2</sup> Restricted courses that require admission to Teacher Education.

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

Elementary Education K-3 and K-6 Majors (*Licensure Programs*):

- Demonstrate, explain, and exhibit knowledge of the major concepts, assumptions, debates, and processes of inquiry that are central to the discipline s/he teaches;
- Develop and utilize multiple methods of assessment to evaluate learners' growth, monitor learner progress, and guide learners' decision making;

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
<b>Begin PRAXIS I Preparation</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111 or MATH 114	COLLEGE ALGEBRA or Quantitative Reasoning	3
UNIV 100	UNIVERSITY SUCCESS	2
Natural Science Option		3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
<b>Register for PRAXIS I Exam</b>		
EDCI 100	INTRODUCTION TO EDUCATION	3
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
Natural Science Option		3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
EDCI 200	Elementary Mathematics Methods	3
ENG 205	WORLD LITERATURE I	3
MUS 203	MUSIC FOR CHILDREN	3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
EDCI 306	EDUCATIONAL PSYCHOLOGY	3



- Utilize a variety of instructional strategies to encourage learners to develop understanding of content areas and connections to build skills and apply knowledge in meaningful ways;
- Demonstrate the ability to collaborate with learners, families, colleagues, other school professionals, and community members to ensure learner growth and to advance the profession.

## Elementary Education K-6 (B.S.E.D.)

### Major Requirements

Code	Title	Hours
EDCI 100 & EDCL 100	INTRODUCTION TO EDUCATION and INTRO TO EDUCATION LAB	3
EDCI 306	EDUCATIONAL PSYCHOLOGY	3
EDCI 200	Elementary Mathematics Methods	3
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
EDCI 400	THEORY&PRIN IN EARLY CHD	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
RE 204	PRE-READNG SKLS F/PRESCHLRS &E	3
RE 309	EARLY LITERACY I	3
RE 310	TCHNG READING IN CONTENT AREAS	3
RE 311	Strategies and Techniques for Teaching English Language Arts and Literacy in Elementary Schools	3
RE 455	DIAG RD INST N/SECDY SCH	3
<b>Total Hours</b>		<b>45</b>

### Other Requirements

- Earn a grade of C or better in all major (EDCI and RE) courses; Elementary Education majors must earn a grade of C or better in all major and core courses as required by the Teacher Education Admission policies.
- Students pursuing a major in Elementary Education (educator licensure programs) must:
  - Select one of two options: Bachelor of Science in Education for Elementary Education: Grades K-3 or
  - Bachelor of Science in Education for Elementary: Grades K-6 (Includes 18 hours of concentration courses in English, Science, or Social Science.)
- Earn a grade point average (GPA) of 2.75 or higher and complete a minimum of 44 hours of the core curriculum to become eligible for Teacher Education Admission through the Center for Teacher Quality. Teacher Education is the academic program through which educator licensure is obtained. For additional information please refer to the Center for Teacher Quality.
- Complete all educator preparation examinations (Praxis Core Academic Skills for Educators, Principles of Learning and Teaching, Praxis II - Content Knowledge, Foundations of Reading) to enroll for selected restricted courses as denoted on the departmental curriculum sheets.
- Pass a criminal background check prior to receiving a clinical internship placement for student teaching. The fee associated with this screening is the responsibility of the teacher candidate.

- Complete a two-semester clinical internship for student teaching. This clinical experience will not increase the number of required completion hours (122 hours for graduation for K3 and K-6 majors).

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
<b>Begin PRAXIS I Preparation</b>		
ENG 104 or ENG 103 or ENG 112	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION	3
MATH 111 or MATH 114	COLLEGE ALGEBRA or Quantitative Reasoning	3
UNIV 100	UNIVERSITY SUCCESS	2
Natural Science Option		3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
<b>Register for PRAXIS I Exam</b>		
EDCI 100	INTRODUCTION TO EDUCATION	3
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
Natural Science Option		3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
EDCI 200	Elementary Mathematics Methods	3
ENG 205	WORLD LITERATURE I	3
MUS 203	MUSIC FOR CHILDREN	3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
RE 204	PRE-READNG SKLS F/PRESCHLRS &E	3
EDCI 306	EDUCATIONAL PSYCHOLOGY	3
MATH 226	CONCEPTS & STRUCS OF MATH I	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
<b>Begin PRAXIS II Preparation</b>		
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
MATH 306	ELEMENTARY CONCEPTS OF GEOMETR	3
RE 309	EARLY LITERACY I <sup>1</sup>	3
RE 312	EARLY LITERACY II <sup>1</sup>	3
Professional Concentration		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
<b>Register for PRAXIS II EXAMS: PLT, CIA &amp; Foundations of Reading</b>		
ART 301	ART FOR CHILDREN	3
ENG 218	ADVANCE COMPOSITION	3
RE 310	TCHNG READING IN CONTENT AREAS <sup>1</sup>	3
RE 311	Strategies and Techniques for Teaching English Language Arts and Literacy in Elementary Schools <sup>1</sup>	3

Professional Concentration		3
	<b>Hours</b>	<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
EDCI 401	Unit Planning, Assessment, and Classroom Management <sup>2</sup>	3
RE 455	DIAG RD INST N/SECDY SCH <sup>2</sup>	3
SCI 401	SCIENCE FOR CHILDREN	3
SS 301	INQRY-BASED INSTRN N GEOG & CE	3
SS 401	SOCIAL SCIENCE METHODS	3
	<b>Hours</b>	<b>15</b>
<b>Spring</b>		
EDCI 402	CLINICAL INTERNSHIP IN STD TCH <sup>2</sup>	12
	<b>Hours</b>	<b>12</b>
	<b>Total Hours</b>	<b>123</b>

<sup>1</sup> Restricted until PRAXIS CORE is attempted.

<sup>2</sup> Restricted courses that require admission to Teacher Education.

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

Elementary Education K-3 and K-6 Majors (Licensure Programs):

- Demonstrate, explain, and exhibit knowledge of the major concepts, assumptions, debates, and processes of inquiry that are central to the discipline s/he teaches;
- Develop and utilize multiple methods of assessment to evaluate learners' growth, monitor learner progress, and guide learners' decision making;
- Utilize a variety of instructional strategies to encourage learners to develop understanding of content areas and connections to build skills and apply knowledge in meaningful ways;
- Demonstrate the ability to collaborate with learners, families, colleagues, other school professionals, and community members to ensure learner growth and to advance the profession.

## Department of Health, Physical Education, and Recreation

### Department of Health, Physical Education and Recreation

Dr. James Robinson  
 Department Chair  
 james.h.robinson@jsums.edu (james.robinson@jsums.edu)  
 601 979-8696

### Faculty of Department

G. Dawkins, D. Dixon, J. M. Houston, J. Y. Lee, B. Hudson

## Introduction/Mission

The Department of Health, Physical Education, and Recreation (HPER) currently offers an undergraduate degree program in Health, Physical, Education, and Recreation with concentrations in the area of: Recreation Administration, Health and Physical Education Non-Licensure, and Therapeutic Recreation.

**Department Mission:** Leveraging JSU's historic mission of empowerment, HPER will graduate change-makers skilled in heart, mind, hand, and voice to increase health equity in Mississippi.

## Objectives

The objectives of the Department of Health, Physical Education and Recreation are in keeping with those of the University's strategic plan, the College of Education and Human Development. To increase health equity in Mississippi by:

- Educating and training the next generation of recreation, healthcare, and sport science professionals
- Preparing K-12 Health and Physical Education teachers with the latest in technology, and best practices as responsive educators with adaptive expertise.
- Providing solutions to Mississippi's most pressing issues via research and scholarly writing.
- Hiring, developing, and retaining world-class faculty.
- Developing student-centric practices.

## Accreditation

The College of Education and Human Development's teacher education programs are accredited by the Council for Accreditation of Educator Preparation (CAEP).

## Admission Criteria(Health Education and Physical Education Licensure Programs)

- Complete a 12-credit-hour Clinical Internship in Student Teaching.
- Have a grade point average of 2.75 or higher to be admitted to the Center for Teacher Quality—the academic program through which the educator licensure is obtained. For additional information please see the JSU Center for Teacher Quality.
- Complete all Teacher Certification Tests (Praxis Core Academic Skills for Educators, Principles of Learning and Teaching, Praxis II-Content Knowledge) to enroll for selected restricted courses. (Refer to the Approved Curriculum Map)
- Not enrolling in EDCI 401 and EDCI 402 during the same semester.
- Submit to a criminal background check prior to receiving a clinical internship placement for student teaching. The fee associated with this screening is the responsibility of the teacher candidate.

## Bachelor

- Health, Physical Education and Recreation (B.S.) Recreation Administration Concentration (p. 74)
- Health, Physical Education and Recreation (B.S.) Therapeutic Recreation Concentration (p. 76)

# Health, Physical Education and Recreation (B.S.) Non-Licensure Concentration

Code	Title	Hours
HE 102	CONCEPTS OF HEALTH FOR TEACHER	3
PE 222	INTRO TO PHYSICAL EDUCATION	3
ETEC 336	ADV MULTIMEDIA IN CLASSROOM	3
HE 399	HUMAN SEXUALITY	3
PE 102	BADMINTON AND TENNIS	1
PE 150	BASKETBALL & VOLLEYBALL	1
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
HE 404	FAMILY LIVING EDUCATION	3
PE 319	KINESIOLOGY	3
PE 322	MOTOR DEV & MOVE EDUCATI	3
PE 309	ELE & SEC FOLK & ETH & RHY DAN	1
PE 320	ADAPTED PHYSICAL EDUCATN	3
PE 350	MEASUR EVALUAT & STATIST	3
PE 360	PHYSIOLOGY OF MUSCULAR A	3
HE 208	EPIDEMIOLOGY OF DISEASES	3
HE 206	ORG & ADMIN OF SCH AND COM HEA	3
HE 333 or PE 411	METHODS & MATER. IN TEAC METHODS IN PHY EDUCATION	3
HE 495	PROBLEMS & ISSUES IN HEA	3
PE 445	PHY EDUC IN ELEM SCHOOL	3
RE 310	TCHNG READING IN CONTENT AREAS	3

**Total Hours 57**

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103	COMPOSITION I or English Composition I with Co-requisite Support	3
MATH 111 or MATH 103 or MATH 114	COLLEGE ALGEBRA	3
BIO 101	INTRO TO BIOLOGICAL SCIENCE	2
BIOL 101	INTRO TO BIO SCI LAB	1
Humanities and Fine Arts Option		3
General Elective		3

**Hours 17**

<b>Spring</b>		
ENG 105	COMPOSITION II	3
PSY 201	GENERAL PSYCHOLOGY	3
Natural Science Option		3
Humanities and Fine Arts Option		3
Pathway Option		3

**Hours 15**

<b>Sophomore</b>		
<b>Fall</b>		
BIO 234	HUMAN ANATOMY & PHYSIOLOGY I	3
BIOL 234	HUMAN ANATOMY & PHYSIOLOGY LAB	1
HE 102	CONCEPTS OF HEALTH FOR TEACHER	3
PE 222	INTRO TO PHYSICAL EDUCATION	3
Humanities and Fine Arts Option		3

Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
UNIV 200	CIVIC ENGAGEMENT	1
ETEC 336	ADV MULTIMEDIA IN CLASSROOM	3
HE 399	HUMAN SEXUALITY	3
PE 102	BADMINTON AND TENNIS	1
PE 150	BASKETBALL & VOLLEYBALL	1
Social and Behavioral Science Option		3
Pathway Option		3

**Hours 15**

<b>Junior</b>		
<b>Fall</b>		
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
HE 404	FAMILY LIVING EDUCATION	3
PE 319	KINESIOLOGY	3
PE 322	MOTOR DEV & MOVE EDUCATI	3
PE 309	ELE & SEC FOLK & ETH & RHY DAN	1

**Hours 16**

<b>Spring</b>		
PE 320	ADAPTED PHYSICAL EDUCATN	3
PE 350	MEASUR EVALUAT & STATIST	3
PE 360	PHYSIOLOGY OF MUSCULAR A	3
HE 208	EPIDEMIOLOGY OF DISEASES	3
HE 206	ORG & ADMIN OF SCH AND COM HEA	3
or HE 323		
General Elective		3

**Hours 18**

<b>Senior</b>		
<b>Fall</b>		
HE 333 or PE 411	METHODS & MATER. IN TEAC	3
HE 495	PROBLEMS & ISSUES IN HEA	3
PE 445	PHY EDUC IN ELEM SCHOOL	3
RE 310	TCHNG READING IN CONTENT AREAS	3
General Elective		3

**Hours 15**

<b>Spring</b>		
General Electives		12

**Hours 12**

**Total Hours 124**

# Health, Physical Education and Recreation (B.S.) Recreation Administration Concentration

The mission of the Department of Health, Physical Education, and Recreation is to increase health equity throughout Mississippi. To accomplish this mission, the Health, Physical Education, and Recreation major with a concentration in Recreation Administration prepare students to create and implement recreational programs and leisure activities to improve the quality of life for all citizens. Graduates work in Mississippi's local parks, state parks, and federal outdoor recreation agencies such as the U.S. Forest Service, National Park Service, and Corps of Engineers. Students also gain hands-on experience through internship opportunities during their senior year.

Code	Title	Hours
REC 104	INTRO TO RECREATION	3
REC 225	RECREATION PRACTICUM	1
REC 218	HISTORY & PHILOSOPHY IN RECR TN	3
REC 205	CULTURAL & RECREATION PROGRAM	3
PE 231	INTERMEDIATE SWIMMING	1
REC 307	RECREATION LEADERSHIP	3
PE 309	ELE & SEC FOLK & ETH & RHY DAN	1
PE 319	KINESIOLOGY	3
REC 350	INTRO TO LEISURE EDUCATION	3
TREC 313	IMPLCTNS OF DISABLG COND IN TR	3
REC 317	COMMUNITY & URBAN RECREATION	3
REC 305	FACILITIES EQUIP & AREA	3
REC 325	RECREATION PRACTICUM	1
REC 418	PRIN, PRACT & PROCEDURES RECR	3
REC 404	RECREATION PROGRAM DESIGN	3
REC 406	LEGAL ISSUES IN RECREATION	3
REC 415	CURRENT ISSUES & TRENDS IN REC	3
REC 421	MNGT IN RECREATION ADMINISTRA	3
REC 405	OUTDOOR RECREATION PROGRAMMING	3
REC 423	RES & EVAL IN RECREATION	3
REC 424	SEMINAR IN RECREATN ADMINISTRA	3
REC 425	RECREATION INTERNSHIP	9

**Total Hours** **64**

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
REC 104	INTRO TO RECREATION	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
Natural Science Option		3
Mathematics Option		3
<b>Hours</b>		<b>17</b>

<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
HE 101	CONCEPTS OF HEALTH	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway		3
<b>Hours</b>		<b>15</b>

<b>Sophomore</b>		
<b>Fall</b>		
PSY 201	GENERAL PSYCHOLOGY	3
REC 218	HISTORY & PHILOSOPHY IN RECR TN	3
REC 205	CULTURAL & RECREATION PROGRAM	3
REC 225	RECREATION PRACTICUM	1
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>

<b>Spring</b>		
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
SS 201	SOCIAL INSTITUTIONS	3

UNIV 200	CIVIC ENGAGEMENT	1
PE Elective		1
Humanities & Fine Arts Option		3
Pathway Option		3

**Hours** **15**

<b>Junior</b>		
<b>Fall</b>		
PE 309	ELE & SEC FOLK & ETH & RHY DAN	1
PE 319	KINESIOLOGY	3
REC 307	RECREATION LEADERSHIP	3
REC 350	INTRO TO LEISURE EDUCATION	3
Social & Behavioral Science Option		3
PE Elective		1

**Hours** **14**

<b>Spring</b>		
REC 305	FACILITIES EQUIP & AREA	3
REC 317	COMMUNITY & URBAN RECREATION	3
REC 325	RECREATION PRACTICUM	1
REC 404	RECREATION PROGRAM DESIGN	3
REC 418	PRIN, PRACT & PROCEDURES RECR	3
TREC 313	IMPLCTNS OF DISABLG COND IN TR	3

**Hours** **16**

<b>Senior</b>		
<b>Fall</b>		
REC 405	OUTDOOR RECREATION PROGRAMMING	3
REC 406	LEGAL ISSUES IN RECREATION	3
REC 415	CURRENT ISSUES & TRENDS IN REC	3
REC 421	MNGT IN RECREATION ADMINISTRA	3
REC 423	RES & EVAL IN RECREATION	3

**Hours** **15**

<b>Spring</b>		
REC 424	SEMINAR IN RECREATN ADMINISTRA <sup>1</sup>	3
REC 425	RECREATION INTERNSHIP <sup>1</sup>	9

**Hours** **12**

**Total Hours** **120**

<sup>1</sup> All courses must be completed prior to enrolling in REC 424 SEMINAR IN RECREATN ADMINISTRA and REC 425 RECREATION INTERNSHIP.

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (TO BE COMPLETED DURING THE GRADUATING SEMESTER ONLY).

## Student Learning Outcomes

- Recreation Administration students will demonstrate content, pedagogy, historical foundation, principles and procedures, leadership skills and techniques, research, and theories of recreation and leisure.
- Recreation Administration students will demonstrate assessment, planning, implementation, and evaluation of community-based, volunteer-based, and private-based recreation and leisure programs.
- Recreation Administration students will demonstrate in-class skills and transfer these skills to their internship experience.

# Health, Physical Education and Recreation (B.S.) Therapeutic Recreation Concentration

The mission of the Department of Health, Physical - Education, and Recreation is to increase health equity throughout Mississippi. To accomplish this mission, the Health, Physical Education and Recreation major with a concentration in Therapeutic Recreation prepare students in the systemic process of utilizing recreation and activity-based interventions to treat persons with physical illness, mental illness, or other disabling conditions. Graduates of this discipline are highly qualified to sit for the Certified Therapeutic Recreation Specialists (CTRS) certification and work in hospitals, clinics, rehabilitation centers, and a variety of other field locations. Students also gain hands-on experience through internship opportunities during their senior year.

Code	Title	Hours
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
COUN 315	Human Growth and Development	3
HE 101	CONCEPTS OF HEALTH	3
PE 309	ELE & SEC FOLK & ETH & RHY DAN	1
PE 319	KINESIOLOGY	3
PE 231	INTERMEDIATE SWIMMING	1
PHIL 301	INTRODUCTN TO PHILOSOPHY	3
PSY 216	ABNORMAL PSYCHOLOGY	3
REC 205	CULTURAL & RECREATION PROGRAM	3
REC 305	FACILITIES EQUIP & AREA	3
REC 307	RECREATION LEADERSHIP	3
REC 350	INTRO TO LEISURE EDUCATION	3
REC 405	OUTDOOR RECREATION PROGRAMMING	3
TREC 104	INTRO TO THERAPEUTIC REC	3
TREC 218	HISTORY&PHILOSOPHY OF THER REC	3
TREC 225	THERAPEUTIC RECREATION PRACTIC	1
TREC 313	IMPLCTNS OF DISABLG COND IN TR	3
TREC 325	THERAPEUTIC REC PRACTICM	1
TREC 329	PROG DESIGN & EVALUATION IN TR	3
TREC 415	CURRENT ISSUES & TRENDS IN TR	3
TREC 418	PRIN, PRAC & PROC IN THEPT REC	3
TREC 421	MNGT IN THERAPEUTIC RECREATION	3
TREC 423	RESRCH & EVAL THERAPEUTIC RECR	3
TREC 424	SEM. IN THERAPEUTIC RECREATION	3
TREC 425	THERAPEUTIC REC INTRN PR	9
<b>Total Hours</b>		<b>74</b>

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 101 & BIOL 101	INTRO TO BIOLOGICAL SCIENCE and INTRO TO BIO SCI LAB	3
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
TREC 104	INTRO TO THERAPEUTIC REC	3
UNIV 100	UNIVERSITY SUCCESS	2
Mathematics Option		3

Humanities & Fine Arts Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
HE 101	CONCEPTS OF HEALTH	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ENG 213 or ENG 218 or ENG 228	PROFESSIONAL WRITING or ADVANCE COMPOSITION or WORD POWER	3
REC 205	CULTURAL & RECREATION PROGRAM	3
TREC 218	HISTORY&PHILOSOPHY OF THER REC	3
TREC 225	THERAPEUTIC RECREATION PRACTIC	1
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
PSY 201	GENERAL PSYCHOLOGY	3
UNIV 200	CIVIC ENGAGEMENT	1
PE Elective		1
Humanities & Fine Arts Option		3
Social & Behavioral Science		3
Pathway Option		3
<b>Hours</b>		<b>14</b>
<b>Junior</b>		
<b>Fall</b>		
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
REC 307	RECREATION LEADERSHIP	3
REC 350	INTRO TO LEISURE EDUCATION	3
PE 309	ELE & SEC FOLK & ETH & RHY DAN	1
PE 319	KINESIOLOGY	3
PSY 216	ABNORMAL PSYCHOLOGY	3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
COUN 315	Human Growth and Development	3
REC 305	FACILITIES EQUIP & AREA	3
TREC 313	IMPLCTNS OF DISABLG COND IN TR	3
TREC 325	THERAPEUTIC REC PRACTICM	1
TREC 329	PROG DESIGN & EVALUATION IN TR	3
PE Elective		1
<b>Hours</b>		<b>14</b>
<b>Senior</b>		
<b>Fall</b>		
TREC 415	CURRENT ISSUES & TRENDS IN TR	3
TREC 418	PRIN, PRAC & PROC IN THEPT REC	3
TREC 421	MNGT IN THERAPEUTIC RECREATION	3
TREC 423	RESRCH & EVAL THERAPEUTIC RECR	3
<b>Hours</b>		<b>12</b>
<b>Spring</b>		
REC 405	OUTDOOR RECREATION PROGRAMMING	3
TREC 424	SEM. IN THERAPEUTIC RECREATION <sup>1</sup>	3
TREC 425	THERAPEUTIC REC INTRN PR <sup>1</sup>	9
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> All courses must be completed prior to enrolling in TREC 424 and TREC 425.

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

The outcomes of the “responsive educator” are aligned with the College of Education and Human Development and provide and embodies:

- Therapeutic Recreation Students will demonstrate content, pedagogy, historical foundation, principles and procedures, practices, and application to work effectively with culturally diverse populations and persons with special needs and disabilities.
- Therapeutic Recreation students will be able to demonstrate assessment, planning, implementation, and evaluation of treatments and programs for individuals with disabilities utilizing evidence-based research practices.
- Therapeutic Recreation students will demonstrate in-class skills and transfer these skills to their internship experience.

## School of Lifelong Learning

Dr. Deidre L. Wheaton

Director

School of Lifelong Learning

deidre.l.wheaton@jsums.edu (<https://jsums-public.courseleaf.com/undergraduate/college-education-human-development/school-lifelong-learning/deidre.l.wheaton@jsums.edu>)

E.E. Thrash Universities Center

3825 Ridgewood Road

Jackson, MS

601-979-8777

## Faculty of Department

J. Ke, H. Lackey, D. Wheaton, C. Wilson

## Mission of the School

The mission of the School of Lifelong Learning is to provide adult students quality learning opportunities for professional and personal development throughout their lifetime. The School’s mission meets the urban and comprehensive education goals of the University. The School of Lifelong Learning addresses problems created by the alarming statistics of Mississippi’s school “dropouts,” worker layoffs, industry demands for skilled labor, and a shrinking economy.

## Goals

The goals of the School of Lifelong Learning are to:

1. Provide world class education for adults, 25 years-of-age and older, who desire to prepare themselves for handling personal and professional challenges throughout their lifetime.
2. Build and maintain students’ high quality academic performance and scholarship by emphasizing quality academics, professionalism, high

accreditation standards, and the acquisition of relevant knowledge and resources.

3. Increase the accessibility of adult learners to higher education and training.
4. Respond to the global demands for a quality workforce using a rigorous curriculum that is aligned with student educational needs and professional standards.
5. Promote and sustain quality teaching and learning through scholarship, service-learning projects, and research by utilizing high quality, diverse faculty for adult learners in a supportive, adult-friendly environment.
6. Ensure that the School remains dynamic and responsive to the changing needs, policies, and technologies of adult education.

## Purpose and Objectives

A primary purpose of the School is to meet the needs of the present-day workforce and adult learners across the state, region, nation, and world. The School allows participants to work with academic advisors to customize studies that meet their personal and professional needs, while taking into consideration their myriad family-life and employment responsibilities.

The objectives of the School of Lifelong Learning are to:

1. Offer academic degree programs and professional development training to non- traditional adult learners.
2. Recruit high quality non-traditional learners and offer training and classes during the evening, weekends, and at more convenient times through technological innovations.
3. Provide training products and services that meet the needs of individual schools, government, business and industry, and faith-based organizations.
4. Implement a comprehensive distance learning program that extends the accessibility of the School to distant populations of adult learners.
5. Provide comprehensive student support services including mentoring, tutoring, advisement and counseling that result in high quality academic performance outcomes.
6. Prepare adult learners for conducting, interpreting, and applying research to solve local, national, and global problems.
7. Implement a rigorous interdisciplinary curriculum using best practice instructional strategies and alignment with the current market demands of the workforce.
8. Attract and obtain high quality faculty who consistently engage in scholarly activities.
9. Provide opportunities for students to complete a minimum of 60 service-learning project hours, in rural and urban communities, consistent with the service-learning mission of the University.

## Student Support Services Unit

The Student Support Services Unit provides students with assistance in the areas of admissions, transcript evaluation, academic and financial aid counseling, advisement, and registration. Also, mentoring, tutoring, and other student support services are provided for students pursuing both academic and non-academic credit coursework and training activities. These services are offered weekdays and weekends at selected hours.

## Center for Professional Development

The Center for Professional Development offers non-academic credit courses for professional and personal development. The Center sponsors workshops, seminars, institutes, and conferences. These activities may be offered on-site at the business or agency, Universities Center, or online through innovative technologies and research-based strategies. Additionally, training activities may be offered at the Metro Classroom Sites to permit participants to receive needed on-site training; thus, removing the barrier of distance to make training cost-effective for the contracted agency.

The Center for Professional Development awards credit in the form of Continuing Education Units (CEUs), Certificates of Completion, and Certificates of Attendance. In collaboration with other units and agencies, the Center offers Social Work Units to licensed social workers, Orientation for School Leaders (OSL) credit to entry-level administrators, School Executive Management Institute (SEMI) credit to school administrators, and other non-academic credit units sponsored by professional associations.

The Center partners with a variety of agencies and organizations to deliver professional development training. Professional development is delivered to the members of the workforce through research-based strategies and innovative technologies. Participants of the Center include teachers, administrators, counselors, parent/teacher organization members, childcare administrators, pre-service educators, students, local, state, and government employees, entrepreneurs, and paraprofessionals. Local and national consultants are hired from local educational agencies, business, government, industry, and institutions of higher learning. The School of Lifelong Learning also sponsors professional and personal development activities and services through additional research and service units. These units are described below:

## Institute for Educational Renewal (INFER)

The Institute for Educational Renewal (INFER) is a continuing academic support unit designed to provide university support to public schools as they endeavor to meet the needs of all learners – prenatal through adulthood – and their families.

INFER's interdisciplinary, multifaceted program is dedicated to focusing its attention on outreach, collaboration, and staff development for school and daycare personnel; mentoring, and technical assistance to schools; and sharing diverse learning to communities around the world. INFER enlists federal, state, and private funding sources to assist in achieving its goals.

INFER is the home of the Southwest Mississippi Education Consortium (SMEC) and the Regional Education Service Center. SMEC serves 24 school districts, in 18 counties across Mississippi. The Southern Regional Education Service Center provides professional development and other support services for public schools primarily in the central Mississippi area.

## Regional Education Service Center for Central Mississippi

The Regional Education Service Center, also known as the Southwest Mississippi Education Consortium (SMEC), represents one of the six regional education service centers that provide professional development and community services to diverse educational entities across Mississippi. Since 1997, the Center has formed partnerships with public and private education providers for the following purposes:

to supplement, enhance, and expand the capacity of member agencies toward improving the quality of student performance in schools. The Center serves 24 school districts across 18 counties in Mississippi as a facilitator or sponsor of these activities and services. All professional development activities are delivered through workshops, conferences, seminars, institutes, interactive video, and online training. The offerings of the Service Center are designed and developed with input from district superintendents, principals, professional development coordinators, and teachers. Some of the training themes include but are not limited to the following: technology, curriculum and instruction, evaluation, research, leadership, literacy, classroom management, safety, cultural diversity, and others. Completion of training usually results in the awarding of Continuing Education Units (CEUs), Certificate of Attendance, Certificate of Participation, Orientation for School Leaders (OSL) credit to entry-level administrators, or School Executive Management Institute (SEMI) Credits.

## Southwest Mississippi World-Class Teaching Initiative (SMWCTI) for National Board Certification

The Southwest Mississippi World-Class Teaching Initiative (SMWCTI) was established by legislation in 1999 for Jackson State University as one of the six World-Class Teaching Programs to support Mississippi teachers as they seek National Board certification. The SMWCTI Mentoring Program pairs groups of selected National Board candidates with experienced, devoted, knowledgeable, and caring mentors who are National Board-Certified teachers. During the mentoring sessions, the mentors guide and support candidates through the National Board process. The mentors work with the candidates through a series of performance-based assessments, including teaching portfolios, student work samples, videotapes, and thorough analysis of classroom teaching and students' learning. The candidates also complete written exercises that probe the depth of their subject-matter knowledge.

## Continuing Education Learning Center (CELC)

The Continuing Education Learning Center (CELC) consists of the following programs:

1. General Education Development (GED)
2. Basic Skills Training, and
3. Parenting Skills.

The Learning Center provides self-paced, individualized, computer-based instruction on an on-going basis. Students can choose from a wealth of subjects including intermediate reading, GED preparation, pre-employment skills, parenting classes, job centered ethics, computer skills, and various enrichment workshops conducted by community leaders. The Learning Center collaborates with various non-profit agencies and city, state, and federal programs.

Jackson State University continues to have both urban and traditional missions. The CELC is central to the urban thrust of the University. It is one of three critical strategies used by the School of Lifelong Learning to help Jackson State University address its urban responsibilities. The CELC along with the School of Lifelong Learning's academic and non-academic credit units act in concert to provide substantive development programs for e-City and other community development projects in literacy, workforce, and health.

- Department of Professional Interdisciplinary Studies (p. 79)

## Department of Professional Interdisciplinary Studies

### Introduction/Mission

The Department of Professional Interdisciplinary Studies offers two unique degree completion programs with an emphasis on cross-disciplinary knowledge that connects different disciplines. Our mission is to prepare nontraditional students to be future global leaders through the development of critical thinking, communication, theoretical inquiry, and technological skills in response to a diverse society and changing workforce. Students participate in service-learning activities to foster civic responsibility and lead to competence in personal and organizational development. Students also achieve success through the flexible design of the program curriculum which can be tailored to student's academic, personal, and professional needs.

**The Bachelor of Science Degree in Professional Interdisciplinary Studies (PRIS) Program** is a flexible program designed for mature adults who seek a nontraditional method for obtaining a bachelor's degree. The curriculum has rigor, coherence, and logical progressions and is aligned with the current and anticipated market demands of students and the workforce. PRIS allows students to tailor coursework to meet their personal and professional needs. Specific program benefits include the opportunity for students to:

1. achieve their educational and personal goals,
2. expand their knowledge base by completing a comprehensive, individually paced plan of study, and
3. take advantage of college studies as they balance their family life and employment while working toward achieving their long-term career goals.

This program is offered in a traditional and fully online format.

### Program Options

In the Bachelor of Science in Professional Interdisciplinary Studies Degree Program, participants may choose from one of two program options:

#### Option 1: Professional Interdisciplinary Studies with a Concentration in General Interdisciplinary Studies

- **General Interdisciplinary Studies**

This option prepares students for a broad spectrum of employment opportunities in such career fields as communications, humanities and fine arts, natural science, education, behavioral and social science, entry-level international relations, and social and economic affairs. Additionally, the program is flexible enough for students to customize studies for today's and tomorrow's emerging positions and organizations.

#### Option 2: Professional Interdisciplinary Studies with a Concentration in Human Resource Development

- **Human Resource Development**

This specialization prepares students for careers as professional training directors, training/development managers, human resource directors, etc. Students will develop skills in communication, conflict

resolution, training and development, team leadership, workplace learning, career planning, succession planning, organizational development, and performance improvement.

### Objectives

The educational objectives of the Bachelor of Science in Professional Interdisciplinary Studies Degree Program are to:

1. Prepare adult learners for leadership positions in business, education, government, community, and professional organizations.
2. Decreasing time to degree for adult and nontraditional students by providing alternative degree options, modes of delivery, and adequate student services.
3. Expand students' interdisciplinary knowledge and understanding of the relationships among the areas of humanities and fine arts, natural sciences, and social and behavioral science.
4. Developing students' ability to read, interpret and evaluate the work of scholars in their chosen career field and design and apply research skills in the study of career-related problems.
5. Provide adult learners with a high-quality education that allows them to communicate effectively and reason critically when confronted with workforce and societal issues.

### Other Requirements/Offerings

1. Must complete 30 semester hours at the 300-400 level.
2. Must complete 30 hours in residence at Jackson State University.

### Bachelor

- Professional Interdisciplinary Studies (B.S.) General Concentration (p. 79)
- Professional Interdisciplinary Studies (B.S.) Human Resources Concentration (p. 81)
- University Studies, B.S. (p. 82)

## Professional Interdisciplinary Studies (B.S.) General Concentration

### Major Requirements

Code	Title	Hours
<i>Major Core</i> <sup>1</sup>		20
CLL 104	WORKFORCE COMU,BEHAVR & CULTUR	3
CLL 120	INTRO TO INTERDSCPLNARY STDYS	3
CLL 301	PRINCIPLE-CENTERED LEADERSHIP	3
CLL 383	RESEARCH TOOLS & FUNDAMENTALS	3
CLL 480	INDEPENDENT STUDY	3
or CLL 481	SPECIALIZED PROFESSIONAL TRAIN	
or CLL 482	INTERNSHIP	
CLL 483	SPCL FIELD RESEARCH PROJECTS	2
<i>Interdisciplinary Concentration</i>		27
Electives - Discipline One		12
Electives - Discipline Two		12
<i>Professional Concentration (Option 1: General Interdisciplinary Studies)</i>		27
Electives : Professional Emphasis		27
Professional Concentration (Option 2: Human Resource Development)		27



CLHR 200	FOUNDNTNS OF HUMAN RES DEVLPMNT	3
CLHR 215	DESGN,DELVRY,& FACLTN OF TRNG	3
CLHR 220	TRANG, DEVELOP, & COMMUNICATNG	3
CLHR 310	MNGT & ADM OF THE TRAIING FUNC	3
CLHR 320	ISS IN HRD:CONFCT RESOL & NEG	3
CLHR 330	ETHICAL PROC N THE WORKFORCE	3
CLHR 415	PROG PLNG & DVLPMNT IN CONT ED	3
CLHR 425	ASSESS & ANALZG TRAIING NEEDS	3
CLHR 450	HUMAN RESOURCE DEVLPMNT SEM	3

<sup>1</sup> INTERDISCIPLINARY CONCENTRATION AND PROFESSIONAL EMPHASIS OPTIONS

Students may choose from the following disciplines when selecting their two interdisciplinary concentrations and their professional emphasis.

# Arts and Humanities (English, Journalism & Media Studies, Speech Communication, Theater, Art, Music, History, and Philosophy);

# Business (Accounting, Business Administration, Economics, Entrepreneurship, Finance, Management, Marketing);

# Education (Elementary and Childhood Education, Special Education, Early Childhood Education, Human Resource Development)

# Health and Human Services (Health, Physical Education and Recreation, Communicative Disorders, Healthcare Administration, Social Work)

# Social Sciences (Criminal Justice, Sociology, Political Science, Psychology, Social Science);

# STEM (Science, Technology, Engineering, Mathematics)

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104	COMPOSITION I	3
or ENG 103	or English Composition I with Co-requisite Support	
or ENG 111	or COMPOSITION & LITERATURE FOR L	
MATH 111	COLLEGE ALGEBRA	3
or MATH 114	or Quantitative Reasoning	
UNIV 105	UNIVERSITY SUCCESS FOR ADULTS	2
Introduction to Biology & Lab (BIO 101 & BIOL 101) or Natural Science Option		3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3

**Hours** 17

<b>Spring</b>		
ENG 105	COMPOSITION II	3
or ENG 112	or COMPOSITION	
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
Pathway Option		3

**Hours** 15

<b>Sophomore</b>		
<b>Fall</b>		
CLL 104	WORKFORCE COMU,BEHAVR & CULTUR	3
CLL 120	INTRO TO INTERDSCPLNARY STDYS	3
Humanities & Fine Arts Option		3
Pathway Option		3
General Elective		3

**Hours** 15

<b>Spring</b>		
CLL 301	PRINCIPLE-CENTERED LEADERSHIP	3
UNIV 200	CIVIC ENGAGEMENT	1

General Elective	2
General Elective	3
General Elective	3
Pathway Option	3

**Hours** 15

<b>Junior</b>	
<b>Fall</b>	
Interdisciplinary Concentration: Discipline 1	3
Interdisciplinary Concentration: Discipline 1	3
Interdisciplinary Concentration: Discipline 1	3
Interdisciplinary Concentration: Discipline 1	3
300-400 Level Elective	3

**Hours** 15

<b>Spring</b>		
CLL 383	RESEARCH TOOLS & FUNDAMENTALS	3
Interdisciplinary Concentration: Discipline 2		3
Interdisciplinary Concentration: Discipline 2		3
Interdisciplinary Concentration: Discipline 2		3
Interdisciplinary Concentration: Discipline 2		3

**Hours** 15

<b>Senior</b>		
<b>Fall</b>		
CLL 480	INDEPENDENT STUDY	3
or CLL 481	or SPECIALIZED PROFESSIONAL TRAIN	
or CLL 482	or INTERNSHIP	

Hum/Arts, Bus, Soc Sci, STEM, Edu, Health	3
Hum/Arts, Bus, Soc Sci, STEM, Edu, Health	3
Hum/Arts, Bus, Soc Sci, STEM, Edu, Health	3
Hum/Arts, Bus, Soc Sci, STEM, Edu, Health (300-400 Level)	3
Hum/Arts, Bus, Soc Sci, STEM, Edu, Health (300-400 Level)	3

**Hours** 18

<b>Spring</b>		
CLL 483	SPCL FIELD RESEARCH PROJECTS	2
Hum/Arts, Bus, Soc Sci, STEM, Edu, Health (300-400 Level)		3
Hum/Arts, Bus, Soc Sci, STEM, Edu, Health (300-400 Level)		3
Hum/Arts, Bus, Soc Sci, STEM, Edu, Health (300-400 Level)		3
Hum/Arts, Bus, Soc Sci, STEM, Edu, Health (300-400 Level)		3

**Hours** 14

**Total Hours** 124

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 105 UNIVERSITY SUCCESS FOR ADULTS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

## Student Learning Outcomes

1. Students will demonstrate verbal and written communication skills through writing assignments, presentation of projects, and/or job application portfolios.
2. Students will differentiate qualitative and descriptive quantitative analyses/approaches, apply a selected approach of research, and demonstrate proficiency in the use of technology for inputting, collecting, and analyzing information and developing presentations and other forms of communication.
3. Students will demonstrate a minimum of six leadership and ethical traits for diverse global and regional markets.

- Students will demonstrate an understanding of the interdisciplinary relationships among the humanities and fine arts, social and behavioral sciences, and natural sciences in response to workforce trends and societal challenges.
- Students will identify of the origin and development of Human Resource Development (HRD) as well as the critical functions and roles of HRD in an organization, make connections between the HRD issues in theory and those in practice, design HRD interventions in different contexts, and identify contemporary cutting-edge topics in HRD research. (Human Resource Development Concentration)

## Professional Interdisciplinary Studies (B.S.) Human Resources Concentration

The Professional Interdisciplinary Studies program is designed for mature adults seeking a non-traditional bachelor's degree option. The curriculum has rigor, coherence, and logical progressions and is aligned with current and anticipated market demands of students and the workforce. The Human Resource Development Concentration prepares students for careers as professional training directors, training/development managers, human resource directors, etc. Graduates of our program develop skills in communication, conflict resolution, training and development, team leadership, workplace learning, career planning, succession planning, organizational development, and performance improvement.

### Major Requirements

Code	Title	Hours
	Professional Core	20
	Interdisciplinary Concentration	21
	Professional Concentration	27
	Internship and Research Project	8
	<b>Total Hours</b>	<b>76</b>

### Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111 or MATH 114	COLLEGE ALGEBRA or Quantitative Reasoning	3
UNIV 105	UNIVERSITY SUCCESS FOR ADULTS	2
	Humanities & Fine Arts Option	3
	Natural Science Option	3
	Social & Behavioral Sciences Option	3
	<b>Hours</b>	<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
	Humanities & Fine Arts Option	3
	Natural Science Option	3
	Social & Behavioral Science Option	3
	Pathway Option	3
	<b>Hours</b>	<b>15</b>

### Sophomore

<b>Fall</b>		
CLL 104	WORKFORCE COMU,BEHAVR & CULTUR	3
CLL 120	INTRO TO INTERDSCPLNARY STDYS	3
	Humanities & Fine Arts Option	3
	Pathway Option	3
	General Elective	3
	<b>Hours</b>	<b>15</b>
<b>Spring</b>		
CLL 301	PRINCIPLE-CENTERED LEADERSHIP	3
UNIV 200	CIVIC ENGAGEMENT	1
	Pathway Option	3
	General Elective	2
	General Elective	3
	General Elective	3
	<b>Hours</b>	<b>15</b>

### Junior

<b>Fall</b>		
	Interdisciplinary Concentration: Discipline 1	3
	Interdisciplinary Concentration: Discipline 1	3
	Interdisciplinary Concentration: Discipline 1	3
	Interdisciplinary Concentration: Discipline 1	3
	300-400 Level Elective	3
	<b>Hours</b>	<b>15</b>
<b>Spring</b>		
CLL 383	RESEARCH TOOLS & FUNDAMENTALS	3
	Interdisciplinary Concentration: Discipline 2	3
	Interdisciplinary Concentration: Discipline 2	3
	Interdisciplinary Concentration: Discipline 2	3
	Interdisciplinary Concentration: Discipline 2	3
	<b>Hours</b>	<b>15</b>

### Senior

<b>Fall</b>		
CLHR 200	FOUNDTNS OF HUMAN RES DEVLPMNT	3
CLHR 215	DESGN,DELVRV,& FACLTN OF TRNG	3
CLHR 220	TRANG, DEVELOP, & COMMUNICATNG	3
CLHR 320	ISS IN HRD:CONFCT RESOL & NEG	3
CLHR 330	ETHICAL PROC N THE WORKFORCE	3
CLL 480 or CLL 481 or CLL 482	INDEPENDENT STUDY or SPECIALIZED PROFESSIONAL TRAIN or INTERNSHIP	3
	<b>Hours</b>	<b>18</b>
<b>Spring</b>		
CLHR 310	MNGT & ADM OF THE TRAIING FUNC	3
CLHR 415	PROG PLNG & DVLPMNT IN CONT ED	3
CLHR 425	ASSESS & ANALZG TRAIING NEEDS	3
CLHR 450	HUMAN RESOURCE DEVELPMT SEM	3
CLL 483	SPCL FIELD RESEARCH PROJECTS	2
	<b>Hours</b>	<b>14</b>
	<b>Total Hours</b>	<b>124</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 105 UNIVERSITY SUCCESS FOR ADULTS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

## Student Learning Outcomes

1. Students will demonstrate verbal and written communication skills through writing assignments, presentation of projects, and/or job application portfolios.
2. Students will differentiate qualitative and descriptive quantitative analyses/approaches, apply a selected approach of research, and demonstrate proficiency in the use of technology for inputting, collecting, and analyzing information and developing presentations and other forms of communication.
3. Students will demonstrate a minimum of six leadership and ethical traits for diverse global and regional markets.
4. Students will demonstrate an understanding of the interdisciplinary relationships among the humanities and fine arts, social and behavioral sciences, and natural sciences in response to workforce trends and societal challenges.
5. Students will identify the origin and development of Human Resource Development (HRD) as well as the critical functions and roles of HRD in an organization, make connections between the HRD issues in theory and those in practice, design HRD interventions in different contexts, and identify contemporary cutting-edge topics in HRD research. (Human Resource Development Concentration)

## University Studies, B.S.

### Introduction/Mission

Our mission is to prepare nontraditional students to be future global leaders through the development of critical thinking, communication, theoretical inquiry, and technological skills in response to a diverse society and changing workforce. Students participate in service-learning activities to foster civic responsibility and lead to competence in personal and organizational development. Students also achieve success through the flexible design of the program curriculum which can be tailored to students' academic, personal, and professional needs.

The Bachelor of University Studies, an adult degree completion program, provides adult learners with a flexible path to a bachelor's degree and is one option for returning students to obtain degree completion through the Complete 2 Compete (C2C) Initiative. The C2C initiative, a statewide program, was developed to encourage Mississippi adults who have completed some college, but earned no degree, to return to college and finish what they started. The Bachelor of University Studies is intended to serve adult learners who have earned at least 90 credit hours but have not completed a baccalaureate degree and have not attended a postsecondary institution in the past twenty-four months based on the last date of attendance. The curriculum may be individualized for each adult learner based on their previously completed coursework and future career goals. This program is offered in a traditional and fully online format.

### Objectives

The educational objectives of the Bachelor of University Studies Degree Program are to provide adult students with the opportunity to:

1. Achieve personal and professional objectives of earning a university degree.
2. Expand their knowledge and understanding of the relationships among the areas of humanities and fine arts, natural sciences, social and behavioral science.

3. Develop the ability to read, interpret and evaluate the work of scholars in their chosen career field.
4. Design and apply research skills in the study of career related problems.
5. Manage at a comfortable level family and work responsibilities while successfully pursuing college studies.
6. Communicate effectively and reason critically when confronted with issues.
7. Meet all requirements for the baccalaureate degree including the demonstration of skill proficiency in disciplined academic inquiry.

**Note:** The Bachelor of University Studies Degree Program is only open to adult learners who qualify for the Complete 2 Compete program and have earned 90 or more semester hours of college-level coursework.

### Admission Criteria

The Bachelor of University Studies Degree Program is open to all adult learners who qualify for the Complete 2 Compete program and have earned 90 or more semester hours of college-level coursework. Students must meet all admissions requirements set forth by Jackson State University and the School of Lifelong Learning. Students must complete the following processes to satisfy undergraduate admission into the Bachelor of University Studies Degree Program:

1. Must meet all admission requirements of Jackson State University.
2. Must qualify for the Complete 2 Compete (C2C) Program:
  - a. Must apply for the Complete 2 Compete program at MSC2C.org (<http://MSC2C.org>),
  - b. Have completed 90 semester hours of college-level coursework,
  - c. Be at least 21 years of age,
  - d. Have been out of college at least 24 consecutive months,
  - e. Have not completed a baccalaureate degree, and
  - f. Be a resident of Mississippi or an Out-of-state adult who previously attended a Mississippi public institution.

### Other Requirements/Offerings

1. Must complete 30 semester hours at the 300-400 level.
2. Must complete 30 hours in residence at Jackson State University.
3. Not required to take the Undergraduate English Proficiency Examination for graduation.
4. Not required to meet Service Learning/Community Service hours required for graduation.

### Major Requirements

Code	Title	Hours
	Professional Electives *	12
	Interdisciplinary Concentration	27
	General Interdisciplinary Concentration (Professional Emphasis)	27
	Internship and Research Project	6
<b>Total Hours</b>		<b>72</b>

\* An additional 9 credits hours are required in General Electives.

# Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103	COMPOSITION I or English Composition I with Co-requisite Support	3
MATH 111 or MATH 114	COLLEGE ALGEBRA or Quantitative Reasoning	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENG 105	COMPOSITION II	3
CLL 104	WORKFORCE COMU,BEHAVR & CULTUR	3
CLL 120	INTRO TO INTERDSCPLNARY STDYS	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
CLL 301	PRINCIPLE-CENTERED LEADERSHIP	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENG 213	PROFESSIONAL WRITING	3
BIO 101 & BIOL 101	INTRO TO BIOLOGICAL SCIENCE and INTRO TO BIO SCI LAB	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
CLL 383	RESEARCH TOOLS & FUNDAMENTALS	3
SOC 329	SOCIAL CHANGE	3
Humanities & Fine Arts Elective		3
Natural Science Elective		3
Social & Behavioral Science Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
Natural Science Elective		3
Natural Science Elective		3
Social Science Elective		3
Social Science Elective		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
Art/Hum, Bus, Soc Sci, STEM, Edu, or Health		3
Art/Hum, Bus, Soc Sci, STEM, Edu, or Health		3
Art/Hum, Bus, Soc Sci, STEM, Edu, or Health		3
Art/Hum, Bus, Soc Sci, STEM, Edu, or Health (300-400 Level)		3
Art/Hum, Bus, Soc Sci, STEM, Edu, or Health (300-400 Level)		3
<b>Hours</b>		<b>15</b>

## Spring

CLL 480 or CLL 481 or CLL 482	INDEPENDENT STUDY or SPECIALIZED PROFESSIONAL TRAIN or INTERNSHIP	3
Art/Hum, Bus, Soc Sci, STEM, Edu, or Health		3
Art/Hum, Bus, Soc Sci, STEM, Edu, or Health		3
Art/Hum, Bus, Soc Sci, STEM, Edu, or Health (300-400 Level)		3
Art/Hum, Bus, Soc Sci, STEM, Edu, or Health (300-400 Level)		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>121</b>

## Notes:

- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

1. Students will demonstrate verbal and written communication skills through writing assignments, presentation of projects, and/or job application portfolios.
2. Students will differentiate qualitative and descriptive quantitative analyses/approaches, apply a selected approach of research, and demonstrate proficiency in the use of technology for inputting, collecting, and analyzing information and developing presentations and other forms of communication.
3. Students will demonstrate a minimum of six leadership and ethical traits for diverse global and regional markets.
4. Students will demonstrate an understanding of the interdisciplinary relationships among the humanities and fine arts, social and behavioral sciences, and natural sciences in response to workforce trends and societal challenges.

## College of Health Sciences

Dr. Russell Bennett  
Interim Dean  
Jackson Medical Mall, Suite 301  
350 West Woodrow Wilson Avenue  
Jackson, MS 39213  
russell.l.bennett@jsums.edu  
601-979-6387

### College Accreditations

The Master of Science in Communicative Disorders is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association (ASHA).

The Bachelor of Social Work (BSW) and Master of Social Work (MSW) degree programs are accredited by the Council on Social Work Education (CSWE).

### Centers or Other Programs in College (If Applicable)

- Jackson Heart Study Graduate Education and Training Center (JHS-GTEC)
- Mississippi Child Welfare Institute
- Central Mississippi Speech, Language, Hearing Clinic

### Introduction

The College of Health Sciences is committed to providing advanced quality education. We provide a learning environment that supports interdisciplinary communication, the development of professional public health concepts, values, and the resolution of healthcare issues. We prepare students to be outstanding leaders and practitioners in professional careers in public health, healthcare administration, speech-language pathology, communicative disorders, speech and hearing sciences, and social work.

### Mission

The mission of the College of Health Sciences is to provide quality teaching, research, and service to produce team-oriented leaders who think critically and address health and societal issues that impact the quality of life and well-being in communities at the local, state, national, and global levels.

### Listing of Academic Departments

- Department of Communicative Disorders (p. 84)
- Department of Health Policy and Management/Healthcare Administration (p. 86)
- Department of Social Work (p. 89)

## Department of Communicative Disorders

Dr. Whitney Perkins, Department Chair and Graduate Program Director  
350 West Woodrow Wilson Drive, Suite 2260  
Jackson, MS 39213  
Phone: (601) 979-1143

E-mail: [commdisordersgrad@jsums.edu](mailto:commdisordersgrad@jsums.edu)

### Faculty of Department

K. Mitchell, Clinical Coordinator  
Dr. B. Newkirk-Turner, Professor  
Dr. W. Perkins, Clinical Faculty  
Dr. D. Stanley, Assistant Professor  
Dr. J. Wiles, Clinical Assistant Professor

### Introduction/Mission

The Department of Communicative Disorders offers a program leading to the Bachelor of Science Degree in Communicative Disorders. Students enrolled in this program are prepared for entry into graduate programs in speech-language pathology, audiology, and speech-hearing science.

The mission of the Department of Communicative Disorders is to provide quality education to diverse pre-professional and graduate students, who are majoring in Communicative Disorders. The program will:

1. prepare pre-professional students for entry into graduate programs; and,
2. guide graduate students to
  - a. acquire the knowledge and develop the skills, competencies, and attitudes that are essential for the prevention of communicative disorders, and the safe, effective and efficient practice of entry-level speech-language pathology,
  - b. develop the ability to analyze, synthesize, and evaluate data, and to conduct research,
  - c. provide professional and public services to local, state, national, and world communities,
  - d. continue their professional growth by exploring developments in the profession and learning new models of management, and
  - e. develop an understanding and appreciation of ethnic and cultural diversity on normal and disordered communication.

### Objectives

The Department of Communicative Disorders provides academic and clinical education to its students, who prepare to work in a health service profession or prepare for post-graduate studies leading to the doctorate. The objectives of the Department are listed below:

- Educate students to independently, effectively and safely:
  - a. differentiate between normal and abnormal communication, as well as normal and abnormal swallowing patterns;
  - b. diagnose and treat persons of all ages who have speech, voice, cognitive, language, communication and swallowing disorders; and,
  - c. habilitate/rehabilitate infants, children and adults with hearing loss
- Equip students to ask relevant questions and provide appropriate information to patients, their families, caregivers and other service providers regarding the prevention, diagnosis and management of human communication and swallowing disorders
- Facilitate clinical experiences that will train students to provide clinical services in a variety of settings including community clinics, hospitals, private practices, schools and university settings
- Prepare students to meet the academic and clinical requirements for licensure granted by the Mississippi State Department of Health and

the Certificate of Clinical Competence in Speech-Language Pathology awarded by ASHA

- Guide students to evaluate developments in the professions, and conduct research in
  - a. the normal processes of language, speech, hearing and swallowing; and,
  - b. the prevention, diagnosis and treatment of disorders of human communication and swallowing
- Assist students to develop sensitivity to and an appreciation of diversity in society, so that they
  - a. take into consideration individual differences in the provision of clinical services,
  - b. do not discriminate in the delivery of services on the basis of race or ethnicity, age, gender, religion, national origin, sexual orientation or disability; and,
  - c. work effectively with other professionals who may be different from them in respect to race or ethnicity, age, gender, religion, national origin, sexual orientation or disability
- Encourage students to develop high standards of integrity, responsibility and ethics, so that they
  - a. hold paramount the welfare of patients they serve;
  - b. provide services only in areas in which they are competent; and,
  - c. adhere to the fundamentals of ethical conduct
- Prepare students for advanced programs of study in communicative disorders
- Advocate the pursuit of continued professional growth through continuing education
- Offer educational programs that will
  - a. promote the maintenance of current knowledge and skills of speech-language pathologists in the Jackson area, state, national and world communities; and
  - b. provide the general public with information regarding the prevention, nature, diagnosis and treatment of communication disorders and swallowing disorders
- Provide professional and public services to local, state, national and world communities

## Bachelor

- Communicative Disorders (B.S.) (p. 85)

## Communicative Disorders (B.S.)

### Major Requirements

Code	Title	Hours
CMD 211	INTRO TO COMMUNICATIVE DISORDR	3
CMD 219	PHONETICS	3
CMD 312	ANATOMY & PHYSIOLOGY OF SPEECH	3
CMD 321	LANGUAGE DEVELOPMENT	3
CMD 316	SPEECH AND HEARING SCIENCE	3
CMD 322	SPEECH SOUND DISORDERS	3
CMD 325	LANG & COGNTV DISORDS IN CHILD	3
CMD 450	SPCH-LANG PATHLGY SERS IN SCHL	3
CMD 410	CLINICAL OBSERVATIONS	1
CMD 423	INTRODUCTION TO AUDIOLOGY	3
CMD 441	INTRO TO AURAL REHABILITATION	3
CMD 344	ASSESSMENT OF CHILDREN	3

CMD 488	SEMINAR IN CAREER AND PROFESSIONAL DEVELOPMENT	2
CMD 446	SEMINAR IN COMMUNICATIVE DISORDERS IN CHILDREN FROM DIVERSE BACKGROUNDS	3
CMD 480	CLINICAL PRACTICUM	3

**Total Hours** **42**

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 101 & BIOL 101	INTRO TO BIOLOGICAL SCIENCE and INTRO TO BIO SCI LAB	3
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
UNIV 100	UNIVERSITY SUCCESS	2
Social & Behavioral Science Option		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
Social & Behavioral Science Option		3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
CMD 211	INTRO TO COMMUNICATIVE DISORDR	3
CMD 219	PHONETICS	3
PSY 201	GENERAL PSYCHOLOGY	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
COUN 315 or PSY 214	Human Growth and Development or DEVELOPMENTAL PSYCHOLOGY	3
ENG 218	ADVANCE COMPOSITION	3
PHIL 301 or PHIL 309	INTRODUCTN TO PHILOSOPHY or ETHICS	3
SS 203 or SOC 214	HISTORICAL&CULTURAL FOUNDATNS or INTRODUCTN TO SOCIOLOGY	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
CMD 312	ANATOMY & PHYSIOLOGY OF SPEECH	3
CMD 321	LANGUAGE DEVELOPMENT	3
HCA 311	PUBLIC HEALTH AND EPIDEMIOLOGY	3
HCA 380	STATISTICS FOR HEALTH SERVICES (or any 200 or 300 level statistics course)	3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CMD 316	SPEECH AND HEARING SCIENCE	3
CMD 322	SPEECH SOUND DISORDERS	3
CMD 325	LANG & COGNTV DISORDS IN CHILD	3

SPED 307	BEHAVIOR MANAGEMNT FOR EX CHIL	3
<b>Hours</b>		<b>12</b>
<b>Senior</b>		
<b>Fall</b>		
CMD 410	CLINICAL OBSERVATIONS	1
CMD 423	INTRODUCTION TO AUDIOLOGY	3
CMD 450	SPCH-LANG PATHLGY SERS IN SCHL	3
PSY 306	EDUCATIONAL PSYCHOLOGY	3
SPED 466	INTRO TO SIGN LANGUAGE	3
General Elective		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
CMD 344	ASSESSMENT OF CHILDREN	3
CMD 441	INTRO TO AURAL REHABILITATION	3
CMD 446	SEMINAR IN COMMUNICATIVE DISORDERS IN CHILDREN FROM DIVERSE BACKGROUNDS	3
CMD 480	CLINICAL PRACTICUM	3
CMD 488	SEMINAR IN CAREER AND PROFESSIONAL DEVELOPMENT	2
<b>Hours</b>		<b>14</b>
<b>Total Hours</b>		<b>120</b>

**Note:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.

## Student Learning Outcomes

- Identify principles of ASHA Code of Ethics that guide professional practices of speech-language pathologists and audiologists.
- Recognize key components of speech-language pathology and audiology clinical practice while observing assessment and intervention sessions and discuss them in writing.
- Explain the impact of hearing on speech, language, communication, and learning.
- Explain the roles and responsibilities of a speech-language pathologist and audiologist.

## Department of Health Policy and Management/Healthcare Administration

Dr. Yalanda Barner  
Interim Chair  
Jackson Medical Mall, Suite 320  
350 West Woodrow Wilson Avenue  
Jackson, MS 39213  
yalanda.m.barner@jsums.edu (russell.l.bennett@jsums.edu)  
601-979-6387

## Faculty of Department

Y. Barner, A. Hays, E. Offiah, L. Michael, M. Younis

## Introduction/Mission

The Healthcare Administration (HCA) Program provides sound theoretical and practical education. As part of the HCA curriculum, students have direct field experiences designed to prepare them for entry-level supervisory positions in a range of healthcare organizations, as well as

establishes professionalism that results in continuous career growth and development. In support of JSU's rich heritage, the HCA Program is sensitive to the needs of a diverse student body that will address national, state, and local needs for more minorities in management and the professional healthcare workforce. Our evidence-based curriculum is designed to develop competencies necessary for students' future successes in healthcare administration.

## Objectives

The HCA Program objectives are categorized across five domains: *Knowledge of the Healthcare Environment, Business Skills and Knowledge, Leadership, Professionalism, and, Communication and Relationship Management*

- To understand healthcare delivery systems.
- To understand the functions of management and administration of healthcare systems.
- To practice leadership and managerial skills that will positively impact performance as a healthcare manager.
- To integrate healthcare professional ethics with business skills and industry knowledge.
- To practice communication that supports a three prong approach: patient health literacy, cultural understanding, and language barriers.

## Bachelor

- Healthcare Administration (B.S.) (p. 86)
- Public Health (B.S.) (p. 88)

## Healthcare Administration (B.S.)

The Healthcare Administration (HCA) Program, housed in the Department of Health Policy & Management, provides students with a sound theoretical education and opportunities for direct field experience that prepare them for management positions. Unlike a clinical degree, healthcare administration graduates typically assume entry and mid-level management positions in hospitals, nursing homes, psychiatric facilities, group practices, managed care facilities, ambulatory centers, home health agencies, and other types of clinical delivery services.

In 2021, the median annual salary for healthcare administrators was \$101,340 (Bureau of Labor Statistics, 2021). "Employment of healthcare occupations is projected to grow 16 percent from 2020 to 2030, much faster than the average for all occupations, adding about 2.6 million new jobs. Healthcare occupations are projected to add more jobs than any of the other occupational groups. This projected growth is mainly due to an aging population, leading to greater demand for healthcare services" (Bureau of Labor Statistics, 2021). In support of JSU's rich heritage, the HCA Program is sensitive to the needs of a diverse student body that will address national, state, and local needs for more minorities in management and the professional healthcare workforce. Our evidence-based curriculum is designed to develop competencies necessary for students' future success in healthcare administration.

## Admission Criteria

The B.S. degree requirement in the HCA Program is 122 hours. Students begin the HCA core curriculum after completing the first two years of preparatory work. Admission prerequisites include courses in accounting, statistics, economics, and computer science. Faculty advisors are

assigned to guide all students through matriculation and fieldwork requirements.

## Major Requirements

Code	Title	Hours
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
HCA 301	INTRO TO HEALTH CARE ORGANIZAT	3
HCA 311	PUBLIC HEALTH AND EPIDEMIOLOGY	3
HCA 320	HEALTHCARE SERVICES MANAGEMENT	3
HCA 380	STATISTICS FOR HEALTH SERVICES	3
HCA 381	LONG-TERM AND MENTAL HCA	3
HCA 310	HEALTH ECONOMICS & PAYERS SYST	3
HCA 352	HUMAN RESOURCE MNGT IN HEALTHC	3
HCA 384	HEALTH POLICY AND POLITICS	3
HCA 402	HEALTHCARE PLANNING & MARKETIN	3
HCA 400	HEALTHCARE ADMINISTRATION INTE	3
HCA 420	ADMIN LAW AND ETHICS IN HEALTH	3
HCA 431	HEALTH PROFESSNL CAREER DEV. S	3
HCA 440	HEALTH MANAGEMENT INFORMATON S	3
HCA 450	FINANCIAL MNGT OF HEALTH SERVI	3
HCA 470	HEALTHCARE RESEARCH AND EVALUA	3
HCA 480	APPLIED RESEARCH/MNGT PROJECT	3
HCA 482	MANAGED CARE & INTEGRATED SYST	3
HCA Elective		6
<b>Total Hours</b>		<b>66</b>

### Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104	COMPOSITION I	3
or ENG 103	or English Composition I with Co-requisite Support	
or ENG 111	or COMPOSITION & LITERATURE FOR L	
BIO 111	GENERAL BIOLOGY	4
& BIOL 111	and GENERAL BIOLOGY LAB	
UNIV 100	UNIVERSITY SUCCESS	2
Mathematics Option		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENG 105	COMPOSITION II	3
or ENG 112	or COMPOSITION	
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
PSY 201	GENERAL PSYCHOLOGY	3
Speech Elective		3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3

Pathway Option		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
ECO 211	PRINCIPLES OF MACROECONOMICS	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
ENG 213	PROFESSIONAL WRITING	3
UNIV 200	CIVIC ENGAGEMENT	1
Philosophy Elective		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
HCA 301	INTRO TO HEALTH CARE ORGANIZAT	3
HCA 311	PUBLIC HEALTH AND EPIDEMIOLOGY	3
HCA 320	HEALTHCARE SERVICES MANAGEMENT	3
HCA 380	STATISTICS FOR HEALTH SERVICES	3
HCA 303	MEDICAL AND ADMN. TERMINOLOGY	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
HCA 310	HEALTH ECONOMICS & PAYERS SYST	3
HCA 352	HUMAN RESOURCE MNGT IN HEALTHC	3
HCA 384	HEALTH POLICY AND POLITICS	3
HCA 402	HEALTHCARE PLANNING & MARKETIN	3
HCA 470	HEALTHCARE RESEARCH AND EVALUA	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
HCA 420	ADMIN LAW AND ETHICS IN HEALTH	3
HCA 440	HEALTH MANAGEMENT INFORMATON S	3
HCA 450	FINANCIAL MNGT OF HEALTH SERVI	3
HCA 480	APPLIED RESEARCH/MNGT PROJECT	3
Healthcare Administration Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
HCA 400	HEALTHCARE ADMINISTRATION INTE	3
HCA 431	HEALTH PROFESSNL CAREER DEV. S	3
HCA 482	MANAGED CARE & INTEGRATED SYST	3
Healthcare Administration Elective		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>121</b>

<sup>1</sup> Beginning Fall 2022 students are required to take HCA 303. HCA 381 can be used as an HCA Elective.

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

Upon completion of the B.S. in Healthcare Administration program, graduates will be able to do the following:

- Identify the socio-economic, behavioral, biological, environmental, and other factors that impact human health and contribute to health disparities
- Apply the principles of project implementation, including planning, assessment, and evaluation in organizational initiatives.



- Explain the fundamental characteristics and organizational structures of the U. S. health system as well as to the differences in systems in other countries.
- Demonstrate competence in health information literacy.
- Develop skills to collaborate and consult as a strategic member of the healthcare team.
- Demonstrate the ability to evaluate the scientific literature, understand and synthesize relevant information from it, and be able to convey this information both orally and in writing.
- Ability to analyze and interpret financial information specific to the healthcare setting.
- Develop effective professional behavior, communication and leadership skills for careers in health care.
- Apply management techniques and theories into leadership activities.
- Integrate concepts of ethics, privacy, law, and regulation to achieve optimal organizational effectiveness while adhering to personal and professional values in all elements of the healthcare delivery systems.

## Public Health (B.S.)

### Major Requirements

Code	Title	Hours
BIO 236	CONCPPTS OF PUBLIC HEALTH	3
BIO 201	INTRO TO ENVIRONMENTAL SCIENCE	3
HE 404	FAMILY LIVING EDUCATION	3
BIZ 201	INTRODUCTION TO BUSINESS	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
CSC 115	DIGITAL COMPUTER PRINCIPLES	3
ENG 213	PROFESSIONAL WRITING	3
HCA 303	MEDICAL AND ADMN. TERMINOLOGY	3
HCA 311	PUBLIC HEALTH AND EPIDEMIOLOGY	3
HCA 380	STATISTICS FOR HEALTH SERVICES	3
HE 208	EPIDEMIOLOGY OF DISEASES	3
ITEM 301	PRINCIPLES OF EMERGENCY MNGT	3
PHS 301	Introduction to Public Health Organizations	3
PHS 350	Public Health Communications	3
PHS 395	Problems and Issues in Public Health	3
PHS 400	Public Health Internship	3
PHS 420	Public Health Law and Ethics	3
PHS 431	Public Health Professional Career Development Seminar	3
PHS 450	Financial Management of Public Health Services	3
PHS 470	Public Health Research and Evaluation	3
PHS 480	Applied Research Project in Public Health	3
SW 225	HUMAN DIVERSITY & SOC JUSTICE	3

**Total Hours** **66**

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
BIO 236	CONCPPTS OF PUBLIC HEALTH	3
UNIV 100	UNIVERSITY SUCCESS	2

Mathematics Option	3
Humanities & Fine Arts Option	3
Natural Science Option	3

**Hours** **17**

<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
BIZ 201	INTRODUCTION TO BUSINESS	3
HE 208	EPIDEMIOLOGY OF DISEASES	3
Natural Science Option		3
Pathway Option		3

**Hours** **15**

<b>Sophomore</b>		
<b>Fall</b>		
BIO 201	INTRO TO ENVIRONMENTAL SCIENCE	3
CSC 115	DIGITAL COMPUTER PRINCIPLES	3
SOC 302	BAS ISSS IN MENTAL HLTH	3
Humanities & Fine Arts Option		3
Pathway Option		3

**Hours** **15**

<b>Spring</b>		
ECO 211	PRINCIPLES OF MACROECONOMICS	3
ENG 213	PROFESSIONAL WRITING	3
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3

**Hours** **16**

<b>Junior</b>		
<b>Fall</b>		
HCA 303	MEDICAL AND ADMN. TERMINOLOGY	3
HCA 311	PUBLIC HEALTH AND EPIDEMIOLOGY	3
HCA 380	STATISTICS FOR HEALTH SERVICES	3
PHS 301	Introduction to Public Health Organizations	3
SW 225	HUMAN DIVERSITY & SOC JUSTICE	3

**Hours** **15**

<b>Spring</b>		
PHS 384	Public Health Policy and Politics	3
PHS 350	Public Health Communications	3
PHS 395	Problems and Issues in Public Health	3
PHS 431	Public Health Professional Career Development Seminar	3
PHS 470	Public Health Research and Evaluation	3

**Hours** **15**

<b>Senior</b>		
<b>Fall</b>		
ITEM 301	PRINCIPLES OF EMERGENCY MNGT	3
PHS 400	Public Health Internship	3
PHS 420	Public Health Law and Ethics	3
PHS 450	Financial Management of Public Health Services	3
PHS 480	Applied Research Project in Public Health	3

**Hours** **15**

<b>Spring</b>		
Health Education Concentration Option		15
or Allied Health Concentration Option		
or Healthcare Administration Concentration Option		

**Hours** **15**

**Total Hours** **123**

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 105 UNIVERSITY SUCCESS FOR ADULTS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

### Health Education Concentration

Code	Title	Hours
HE 206	ORG & ADMIN OF SCH AND COM HEA	3
HE 333	METHODS & MATER. IN TEAC	3
HE 401	CONSUMER HEALTH & SAFETY	3
HE 498	DRUG EDUCATION	3
HE 404	FAMILY LIVING EDUCATION	3
<b>Total Hours</b>		<b>15</b>

### Allied Health Concentration

Code	Title	Hours
HE 311	FIRST AID PREVENT&CARE O	3
PHS 401	Disease Pathogenesis and Risk Factors in Public Health	3
PHS 403	Disaster Management in Public Health	3
PHS 404	Data Driven Solutions in Public Health	3
PHS 405	Public Health Leadership Seminar	3
<b>Total Hours</b>		<b>15</b>

### Healthcare Administration Concentration

Code	Title	Hours
CLL 301	PRINCIPLE-CENTERED LEADERSHIP	3
HCA 320	HEALTHCARE SERVICES MANAGEMENT	3
HCA 352	HUMAN RESOURCE MNGT IN HEALTHC	3
HCA 402	HEALTHCARE PLANNING & MARKETIN	3
HCA 482	MANAGED CARE & INTEGRATED SYST	3
<b>Total Hours</b>		<b>15</b>

## Student Learning Outcomes

Upon completion of the B.S. in Public Health program, graduates will be able to:

- Analyze and apply public health information, in both oral and written forms, through a variety of media and to diverse audiences
- Evaluate, locate, use and synthesize public health information

In addition, through concentrations in Health Education, Allied Health, and Healthcare Administration, students are able to:

- Design advocacy interventions and strategies for the protection and promotion of the public's health at all levels of society
- Analyze community dynamics through integrated learning experiences during the internship
- Apply critical thinking skills and creativity
- Analyze and evaluate the cultural context in which public health professionals work
- Analyze and evaluate research methods in public health
- Apply systems thinking skills to public health situations

- Analyze and apply dynamics of teamwork and leadership skills in public health organizations

## Department of Social Work

Dr. Candace Riddley  
Interim, B.S.W. Program Director  
candace.l.riddley@jsums.edu  
(601) 979-2631

## Faculty of Department

T. Allen, B. Anderson, J. Loggins, B. McKenny, K. Richards, S. Williams-Tompkins

## Introduction/Mission

The mission of the Bachelor of Social Work (B.S.W.) Program is to prepare diverse students for generalist social work practice in local and global communities. Students will be able to integrate knowledge and skills related to practice, theory, critical thinking, evidence-based research, ethical reasoning, policy, and technology to facilitate social change, empower at-risk populations, and promote human rights in diverse social work practices.

## Accreditation

The Bachelor of Social Work Program is accredited by the Council on Social Work Education.

## Admission Criteria

Students may declare Social Work as a major upon entry to the University. Students are identified as pre-majors until they have been formally admitted to the B.S.W. Program. Admission to the University alone will not ensure admission to the B.S.W. Program. The B.S.W. Program admits students during the Fall and Spring semesters. In order to be considered for admission into the program, the student must complete the application in its entirety. The application consists of questions pertaining to the admission requirements, thoughts and perceptions of the Social Work profession, references, the professional expectations for Social Work students, and student statements of understanding. In addition, students must:

- be admitted to the University;
- completed all developmental courses required by the University;
- completed or enrolled in ENG 104 COMPOSITION I/ENG 105 COMPOSITION II,
- removed all incomplete grades ("I") in courses;
- attended and/or accessed the virtual or face-to-face B.S.W. Program orientation and
- achieved a minimum cumulative institutional grade point average of 2.5 by the end of the semester in which the student has applied for admission to the B.S.W. Program.

Students are notified by email at the end of the semester regarding the status of admissions. In addition to the admission application, the admission process may include participation in a personal interview with the B.S.W. Program Admissions Committee. Only students who have met all B.S.W. Program admissions requirements will be allowed to enroll in SW 385 SOCIAL WORK PRACTICE I and SW 301 HUMAN BEHAVIOR & SOCIAL ENV I.

## Other Requirements/Offerings

Students must maintain a 2.5 or higher institutional grade point average and complete all Social Work and ENG 104 COMPOSITION I and ENG 105 COMPOSITION II courses with a "C" or better.

## Bachelor

- Social Work (B.S.W.) (p. 90)

## Minor

- Social Work Minor (p. 91)

## Social Work (B.S.W.)

Social work focuses on assisting persons and oppressed individuals to achieve their maximum human potential. The profession is concerned with social justice and providing an environment conducive for growth and opportunities. Social workers practice in a variety of human service settings such as hospitals, juvenile corrections, nursing homes, mental health centers, and child protective services. Many of these settings are where you may have your B.S.W. field practicum (internship) during your senior year. Among many tasks within these settings, social workers provide clients with resources and connections to community support, counseling, crisis intervention, case management, and advocacy.

See the National Association of Social Workers (NASW) website for more information and The New Social Worker at <http://www.socialworker.com/home/index.php>

## Major Requirements

Code	Title	Hours
SW 200	INTRO TO SOCIAL WORK	3
SW 210	PROFNL BHVRS, ETHICS, & COMMUN	3
SW 215	SOC WELFARE POLICIES & PROGRMS	3
SW 225	HUMAN DIVERSITY & SOC JUSTICE	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
or ECO 212	PRINCIPLES OF MICROECONOMICS	
SW 250	THEORETICAL PERSPECTIVES N GEN	3
SW 260	BEHAVIOR MODIFICATION: A & I	3
SW 301	HUMAN BEHAVIOR & SOCIAL ENV I	3
SW 385	SOCIAL WORK PRACTICE I	3
Social Work Elective		6
Statistics Option		3
SW 302	HUMAN BEHAVIOR & SOC ENVRN II	3
SW 455	RESEARCH METHD & SOC WOR	3
SW 485	SKILLS IN INTERVIEWING	3
SW 486	SOCIAL WORK PRACTICE II	3
SW 489	SOCIAL WORK FIELD PRACTICUM	9
SW 499	INTEGRATIVE SEMINAR	3
HCA 311	PUBLIC HEALTH AND EPIDEMIOLOGY	3
HE 101	CONCEPTS OF HEALTH	3
Speech Option		3
<b>Total Hours</b>		<b>69</b>

## ADMISSION CRITERIA

Students may declare Social Work as a major upon entry to the University. Students are identified as pre-majors until they have been formally admitted to the B.S.W. Program. Admission to the University alone will not ensure admission to the B.S.W. Program. The B.S.W. Program admits students during the Fall and Spring semesters. In order to be considered for admission into the program, the student must complete the application in its entirety. The application consists of questions pertaining to the admission requirements, thoughts and perceptions of the Social Work profession, references, the professional expectations for Social Work students and student statement of understanding. In addition, students must be admitted to the University; completed all developmental courses required by the University; completed or enrolled in ENG 104/105: Composition & Literature, removed all incomplete grades ("I") in courses; attended and/or accessed the virtual or face to face B.S.W. Program orientation and achieved a minimum cumulative institutional grade point average of 2.5 by the end of the semester in which the student has applied for admission to the B.S.W. Program. Students are notified by email at the end of the semester regarding the status of admissions. In addition to the admission application, the admission process may include participation in a personal interview with the B.S.W. Program Admissions Committee. Only students who have met all B.S.W. Program admissions requirements will be allowed to enroll in SW 385: Social Work Practice I and SW 301: Human Behavior and the Social Environment I.

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
UNIV 100	UNIVERSITY SUCCESS	2
Mathematics Option <sup>1</sup>		3
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
HE 101	CONCEPTS OF HEALTH	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
SW 200	INTRO TO SOCIAL WORK	3
SW 210	PROFNL BHVRS, ETHICS, & COMMUN	3
SOC 214	INTRODUCTN TO SOCIOLOGY	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ECO 211 or ECO 212	PRINCIPLES OF MACROECONOMICS or PRINCIPLES OF MICROECONOMICS	3
PSY 201	GENERAL PSYCHOLOGY	3
SW 215	SOC WELFARE POLICIES & PROGRMS	3
SW 225	HUMAN DIVERSITY & SOC JUSTICE	3

UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
SW 250	THEORETICAL PERSPECTIVES N GEN	3
SW 260	BEHAVIOR MODIFICATION: A & I	3
SW 301	HUMAN BEHAVIOR & SOCIAL ENV I	3
SW 385	SOCIAL WORK PRACTICE I	3
Speech Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
HCA 311	PUBLIC HEALTH AND EPIDEMIOLOGY	3
Social Work Elective		3
Statistics Option		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
SW 302	HUMAN BEHAVIOR & SOC ENVRN II	3
SW 455	RESEARCH METHD & SOC WOR	3
SW 485	SKILLS IN INTERVIEWING	3
SW 486	SOCIAL WORK PRACTICE II	3
Social Work Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
SW 489	SOCIAL WORK FIELD PRACTICUM	9
SW 499	INTEGRATIVE SEMINAR	3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

SW 402	LEADERSHIP AND MANAGEMENT SKIL	3
SW 404	SCHOOL SOCIAL WORK	3
SW 405	COMMUNITY ORGANIZTN DEVL	3
SW 406	DEATH AND DYING	3
SW 410	SOCIAL LEGISLATION	3
SW 421	TEENAGE SEX & TNGE PARNTG N UR	3
SW 430	FAMILY TREATMENT	3
SW 435	FAM VIOL:STRAT FOR INTRV	3
SW 436	CHILD ABUSE&NEG:PROT SER	3
SW 450	SOC WORK IN HLT RELT FLD	3

## Social Work Minor Minor Requirements

The Social Work minor requires completion of 18 credit hours and a passing grade in each social work course with a "C" grade or better. Students must complete the courses listed below.

Code	Title	Hours
SW 200	INTRO TO SOCIAL WORK	3
SW 210	PROFNL BHVRS, ETHICS, & COMMUN	3
SW 215	SOC WELFARE POLICIES & PROGRMS	3
SW 225	HUMAN DIVERSITY & SOC JUSTICE	3
Social Work Electives		6
<b>Total Hours</b>		<b>18</b>

<sup>1</sup> If STAT 115 is selected as the Mathematics option. Students are still required to successfully complete a second Statistics Course to be taken during the Junior year.

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS however, the student must take 2 hours of general electives to replace the UNIV course.
- Students must complete ENG 104/103 & ENG 105 or ENG 111& 112 with a minimum grade of "C" in each course.
- Social Work majors must earn a letter grade of "C" or better in ALL required Social Work courses.
- All social work majors must complete a separate admission for the Bachelor of Social Work Program while enrolled in SW 200 INTRO TO SOCIAL WORK and SW 210 PROFNL BHVRS, ETHICS, & COMMUN.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

**Social Work Electives**

Code	Title	Hours
SW 220	INTL PERS ON DVRS N SOC JUSTIC	3
SW 230	Basic Trauma and Trauma-Informed Care	3
SW 330	CHILD WELFARE SERVICES	3
SW 360	SOCIAL ISSUES IN FILM	3
SW 400	MILITARY SOCIAL WORK	3
SW 401	SOCIAL WORK AND CRIMNL JUSTICE	3

# College of Liberal Arts

Dr. Rico Chapman, Dean

Rico.d.chapman@jsums.edu

liberalarts@jsums.edu

601-979-7036

## Brief Narrative

The College of Liberal Arts (CLA) at Jackson State University promotes and supports significant research, innovative scholarship, and creative expression in the arts, humanities, and social and behavioral sciences. By offering a rich array of undergraduate and select graduate programs, the CLA provides a diverse and engaged student body with an outstanding education founded on nurturing relationships between students and distinguished faculty. Our academic disciplines, programs, interdisciplinary centers, and institutes strive to cultivate skills in research and analysis, written and verbal communication, critical thinking, and visual literacy, as well as encourage a commitment to service to the city of Jackson and the global community.

## College Accreditations

Undergraduate academic programs in the College of Liberal Arts are accredited by the National Association of Schools of Art and Design, the National Association of Schools of Music, and the National Council of Teachers of English/National Council for Accreditation of Teacher Education. The Master's in Public Policy and Administration is accredited by the National Association of Schools of Public Administration. The doctoral program in clinical psychology, accredited by the American Psychological Association, is one of only two doctoral clinical psychology programs accredited at a historically black college/university.

## Mission

The mission of the College of Liberal Arts is to nurture the mind and spirit of its graduate and undergraduate students and to develop and refine students' spoken, written, and analytical skills, their artistic and creative talents, and their knowledge of the humanities and the social and behavioral sciences, and the ways in which technology can be used to advance their capacity to understand world events, successfully compete globally, and contribute to improvements in the human condition.

## Purpose and Objectives

The College is committed to

1. providing and sustaining a competent, diverse and resourceful faculty and staff committed to original research, artistic excellence, rigorous teaching, and robust mentorship;
2. emphasizing inspiring and experiential pedagogies that fully engage learners;
3. enhancing the quality of its academic programs;
4. cultivating among its learners the strongest appreciation for knowledge, critical inquiry, and effective oral and written communication skills; and
5. encouraging its learners in their quests for meaningful and productive citizenship.

Further, the College promotes faculty, staff, and student development programs and provides excellent visual and performing arts programs

which include exhibits, performances, lectures, and outreach to the community across the city, state, and entire southern region.

## Scholarships Offered

The College of Liberal Arts maintains 36 active scholarships in the Foundation. In addition to the scholarships listed below, individual departments offer scholarships and other internal funding to support student research, travel, and study.

<https://www.jsums.edu/scholarships/>

## Resources

The College of Liberal Arts possesses a variety of resources to enhance the educational experiences and development of its students. These resources include but are not limited to JSUTV, WJSU FM, JSU art galleries, the Blue & White Flash newspaper, and numerous student organizations, societies, and groups.

## Degree Requirements

The following requirements must be met in order to earn an undergraduate degree in the College of Liberal Arts:

1. Earn a minimum cumulative academic average of 2.00 ("C") in all courses.
2. Take and pass the PRAXIS (teacher education majors only).

## Course Examination

Teaching majors must apply for admission to Teacher Education, after approval by subject advisor, at the end of the sophomore year. Academic requirements are overall grade point average of 2.75 and completion of all required work of the first two years including a grade of "C" or above in all teacher education courses. Students must also pass the Mississippi Educator Licensure Exams Praxis CASE, ACT Test score of 21 or better, or SAT equivalent score.

## Centers, Institutes and Other Programs in the College

- Applied Psychological Services Clinic
- The Art Gallery
- Bob Owens Pre-Law Center
- COFO Civil Rights Education Center
- Community Health Program
- Interdisciplinary Alcohol/Drug Studies Center
- Margaret Walker Center
- Peer Health Education Program
- Richard Wright Center for Writing, Rhetoric, and Research

## Listing of Academic Departments

- Department of Art (p. 93)
- Department of Criminal Justice and Sociology (p. 95)
- Department of English and Foreign Languages (p. 98)
- Department of History and Philosophy (p. 111)
- Department of Journalism and Media Studies (p. 114)
- Department of Military Science (p. 120)
- Department of Music (p. 122)
- Department of Political Science (p. 138)

- Department of Psychology (p. 142)
- Department of Speech Communication and Theatre (p. 144)

## Department of Art

Dr. Mark Geil  
 Department Chair  
 mark.geil@jsums.edu (jimmy.mumford@jsums.edu)  
 Phone: 601.979.2040

## Faculty of the Department

C. Carraway, H. Kim, K. Stewart, B. Myburgh, H. Kim, C. Mayers

## Introduction/Mission

The Department of Art and Theatre is committed to educating its students to be creative problem-solvers, dynamic leaders, effective communicators, and innovative artists. The Bachelor of Arts (B.A.) degree provides students with hands-on training in theory and practice, with a curriculum that includes graphic design, sound design, motion graphics, web design, painting, photography, printmaking, and sculpture and theatre. The theatre emphasis provides students with the fundamental knowledge of communication, performance, and design through research and practical application. Our program provides students with the education needed to enter a variety of careers or to pursue graduate work in the arts or related fields.

## Objectives

- Provide opportunities for students to develop knowledge and understanding of art.
- Provide opportunities for students to view a variety of traditional and contemporary modes of visual expression.
- Provide opportunities for students to participate in competitive and professional activities.
- Provide comprehensive training in communicative arts theatre production and science.
- Develop comprehensive aesthetic awareness and interaction among students, faculty, and community members.
- Present forensic activities for theatre students.
- Offer practical communicative experiences through laboratory activities, problem-solving exercises, internships, and independent study.

## Accreditation

The Department of Art is accredited by the National Association of Schools of Art and Design (NASAD).

## Areas of Concentrations

Code	Title	Hours
<b>Ceramics</b>		
ART 211	INTRODUCTION TO CERAMICS	3
ART 312	CERAMICS	3
ART 313	CERAMICS	3
ART 314	CERAMICS	3
ART 414	CERAMICS	3
ART 415	CERAMICS	3
<b>Painting</b>		

ART 224	INTRODUCTION TO PAINTING	3
ART 322	PAINTING	3
ART 323	PAINTING	3
ART 324	PAINTING	3
ART 412	PAINTING	3
ART 413	PAINTING	3

### Photography

ART 335	INTRO TO PHOTOGRAPHY	3
ART 336	INTERMEDIATE PHOTOGRAPHY	3
ART 339	STUDIO LIGHTNING FOR PHOTGRPHY	3
ART 420	PHOTOGRAPHY	3
ART 421	PHOTOGRAPHY	3

### Printmaking

ART 242	PRINTMAKING	3
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### Sculpture

ART 232	INTRODUCTN TO SCULPTURE	3
ART 332	SCULPTURE	3
ART 333	SCULPTURE	3

## Other Requirements/Offerings

Students are required to earn a minimum grade of ("C") in all major courses. A student who plans to pursue a concentration in Ceramics, Painting, Photography, Printmaking, or Sculpture must complete 12 hours of 300 – 400 level courses.

## Bachelor

- Art (B.A.) Graphic Design Concentration (p. 93)
- Art (B.A.) Studio Art Concentration (p. 94)

## Minor

- Art Minor (p. 95)

## Art (B.A.) Graphic Design Concentration

### Major Requirements

Code	Title	Hours
ART 210	VISUAL THINKING	3
ART 203	INTRO TO COMPUTER GRAPHICS	3
ART 213	INTRODUCTION TO GRAPHIC DESIGN	3
ART 228	TYPOGRAPHY	3
ART 311	WEB DESIGN	3
ART 327	SOUND DESIGN	3
ART 349	JUNIOR GRAPHIC DESIGN STUDIO I	3
ART 351	JR GRAPHIC DESIGN STUDIO II	3
ART 430	GRAPHIC DESIGN INTERNSHIP	3
ART 441	SENIOR GRAPHIC DESIGN STUDIO I	3
ART 443	SR GRAPHIC DESIGN STUDIO II	3
ART 454	PORTFOLIO DEVELOPMENT	3
<b>Total Hours</b>		<b>36</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
ART 102	DESIGN I	3
ART 111	DRAWING I	3
UNIV 100	UNIVERSITY SUCCESS	2
MATH 114	Quantitative Reasoning	3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
ART 112	DRAWING II	3
ART 201	DESIGN II	3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ART 203	INTRO TO COMPUTER GRAPHICS (Fall Only)	3
ART 210	VISUAL THINKING (Fall Only)	3
ART 221	ART HISTORY (Fall Only)	3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ART 213	INTRODUCTION TO GRAPHIC DESIGN (Spring Only)	3
ART 222	ART HISTORY (Spring Only)	3
ART 228	TYPOGRAPHY (Spring Only)	3
UNIV 200	CIVIC ENGAGEMENT	1
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
ART 202	DESIGN III	3
ART 216	DRAWING III	3
ART 327	SOUND DESIGN (Fall Only)	3
ART 349	JUNIOR GRAPHIC DESIGN STUDIO I (Fall Only)	3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ART 224	INTRODUCTION TO PAINTING	3
ART 232	INTRODUCTN TO SCULPTURE	3
ART 311	WEB DESIGN	3
ART 337	NON WESTERN ART	3
ART 351	JR GRAPHIC DESIGN STUDIO II (Spring Only)	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ART 242	PRINTMAKING	3
ART 335	INTRO TO PHOTOGRAPHY	3
ART 338	AFRICAN AMERICAN ART (Fall Only)	3
ART 441	SENIOR GRAPHIC DESIGN STUDIO I	3
Speech Option		3
<b>Hours</b>		<b>15</b>

Code	Title	Hours
ART 211	INTRODUCTION TO CERAMICS	3
ART 430	GRAPHIC DESIGN INTERNSHIP	3
ART 443	SR GRAPHIC DESIGN STUDIO II (Spring Only)	3
ART 454	PORTFOLIO DEVELOPMENT	3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will be able to create graphic designs that meet the specifications and requirements of communication problems.
- Students will be able to identify materials and methods of oil and/or acrylic painting so as to convey form, color relationship, and space in painting.
- Students will be able to successfully use principles of composition and perspective to create the illusion of depth in two-dimensional photographs.
- Students will develop final cumulative portfolios and artist/design statements that encompass a broad range of media, techniques, and critical inquiries.
- Students will demonstrate proficiency in the application of the specific communication principles of clarity, concision, ability to be compelling, accuracy, and awareness of the audience in professional settings.

## Art (B.A.) Studio Art Concentration Major Requirements

Code	Title	Hours
ART 221	ART HISTORY	3
ART 222	ART HISTORY	3
ART 337	NON WESTERN ART	3
ART 338	AFRICAN AMERICAN ART	3
ART 455	AFRICAN ART	3
ART 102	DESIGN I	3
ART 201	DESIGN II	3
ART 202	DESIGN III	3
ART 403	DESIGN IV	3
ART 111	DRAWING I	3
ART 112	DRAWING II	3
ART 216	DRAWING III	3
ART 217	DRAWING IV	3
ART 211	INTRODUCTION TO CERAMICS	3
ART 224	INTRODUCTION TO PAINTING	3
ART 232	INTRODUCTN TO SCULPTURE	3
ART 242	PRINTMAKING	3
ART 335	INTRO TO PHOTOGRAPHY	3
ART 454	PORTFOLIO DEVELOPMENT	3

ART 300 or 400 level	Studio Concentration	12
<b>Total Hours</b>		<b>69</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
ART 102	DESIGN I	3
ART 111	DRAWING I	3
UNIV 100	UNIVERSITY SUCCESS	2
MATH 114	Quantitative Reasoning	3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
ART 112	DRAWING II	3
Social & Behavioral Science Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ART 201	DESIGN II	3
ART 216	DRAWING III	3
ART 221	ART HISTORY (Fall Only)	3
Natural Science Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
ART 202	DESIGN III	3
ART 217	DRAWING IV	3
ART 222	ART HISTORY (Spring Only)	3
ART 224	INTRODUCTION TO PAINTING	3
UNIV 200	CIVIC ENGAGEMENT	1
Fine Art Elective		3
Pathway Option		3
<b>Hours</b>		<b>19</b>
<b>Junior</b>		
<b>Fall</b>		
ART 211	INTRODUCTION TO CERAMICS	3
ART 232	INTRODUCTN TO SCULPTURE	3
ART 335	INTRO TO PHOTOGRAPHY	3
ART 337	NON WESTERN ART	3
Art Elective 300 to 400 Level Course		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ART 242	PRINTMAKING	3
Studio Concentration		3
Studio Concentration		3
Art Elective 300 to 400 Level Course		3
Speech Elective		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ART 338	AFRICAN AMERICAN ART (Fall Only)	3

Art Elective 300 to 400 Level Course	3	
Studio Concentration	3	
General Elective	3	
<b>Hours</b>		<b>12</b>
<b>Spring</b>		
ART 403	DESIGN IV	3
ART 454	PORTFOLIO DEVELOPMENT	3
Art Elective 300 to 400 Level Course		3
Studio Concentration		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>123</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will be able to create graphic designs that meet the specifications and requirements of communication problems.
- Students will be able to identify materials and methods of oil and/or acrylic painting so as to convey form, color relationship, and space in painting.
- Students will be able to successfully use principles of composition and perspective to create the illusion of depth in two-dimensional photographs.
- Students will develop final cumulative portfolios and artist/design statements that encompass a broad range of media, techniques, and critical inquiries.
- Students will demonstrate proficiency in the application of the specific communication principles of clarity, concision, ability to be compelling, accuracy, and awareness of the audience in professional settings.

## Art Minor

The Art minor requires 21 credit hours of coursework. For an Art minor, all students must take:

Code	Title	Hours
ART 102	DESIGN I	3
ART 111	DRAWING I	3
ART 221	ART HISTORY	3
Select 12 credits of Art courses <sup>1</sup>		12
<b>Total Hours</b>		<b>21</b>

<sup>1</sup> For the remaining Art courses (12), a student can take art studio courses, graphic design courses or a combination of art studio and graphic design courses.

## Department of Criminal Justice and Sociology

Dr. Thomas Kersen  
Interim Department Chair  
Email: thomas.m.kersen@jsums.edu



601-979-2591

## Faculty of the Department

C. McNeil, T. Kersen, E.F. Morgan, X. Su. R. Bullie, T. Hoard, and K. Lavine

## Introduction/Mission

The mission of the Department of Criminal Justice and Sociology is to advance knowledge and skills through teaching and research that will lead to a well-balanced education. The department seeks to develop competent social scientists and teachers while preparing students for careers in various professions. Our programs also provide students with the education needed to pursue graduate work in criminology, criminal justice, and sociology as well as other disciplines.

## Objectives

The objectives of the Department of Criminal Justice and Sociology are as follows:

1. To teach students to think critically as they learn about institutions and processes.
2. To identify the value choices and ethical considerations involved in decision making in the administration of justice and justice systems in a democratic society.
3. To provide students with information and skills needed for employment in a variety of public and private service agencies related to society.
4. To advance sociological knowledge and skills through teaching and research.
5. To develop competent social scientists and teachers.

## Other Requirements/Offerings

1. Earn a cumulative academic average of not less than 2.0 ("C") in all courses.
2. A 2.0 GPA in Criminal Justice and/or Sociology courses is required for graduation.
3. Students must also take the Departmental Exam in Criminal Justice or Sociology no later than the last semester of junior standing based on hours earned.
4. Earn a grade of "C" in all courses applied to the degree in the Department of Criminal Justice and Sociology whether the course is required for the major or major elective course.
5. An incomplete "I" grade must be satisfied within the first six weeks of the next semester after receiving the incomplete grade.
6. Complete a degree evaluation in the department each semester.
7. File an Application for Degree when cleared by the department.

## Bachelor

- Criminal Justice (B.S.) (p. 96)
- Sociology (B.A.) (p. 97)

## Minor

- Criminal Justice Minor (p. 97)
- Sociology Minor (p. 98)

## Criminal Justice (B.S.)

### Major Requirements

Code	Title	Hours
CJ 100	INTRODUCTI TO CRIMINAL JUSTICE	3
SOC 214	INTRODUCTN TO SOCIOLOGY	3
CJ 200	INTRO TO LAW ENFORCEMENT	3
CJ 210	INTRO CORRECT SERVICES	3
CJ 212	CRIMINAL LAW	3
CJ 215	ETHICS IN CRIMINAL JUSTICE	3
CJ 304	JUVENILE JUSTICE	3
CJ 326	ISS & PROC OF CRM JUS RS	3
PS 135	AMERICAN GOVERNMENT	3
Social Science Elective Courses		6
CJ 333	CRIMINOLOGY	3
CJ 440	COMP STDY OF CRIMINAL JUSTICE	3
CJ/SOC 451	SOCIAL STATISTICS	3
CJ 483	SEMINAR IN CRIMINAL JUST	3
Criminal Justice Electives		15
<b>Total Hours</b>		<b>60</b>

### Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
UNIV 100	UNIVERSITY SUCCESS	2
Natural Science Option		3
Humanities & Fine Arts Option		3
Math Option		3
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
CJ 100	INTRODUCTI TO CRIMINAL JUSTICE	3
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
CJ 210	INTRO CORRECT SERVICES	3
General Elective		3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CJ 200	INTRO TO LAW ENFORCEMENT	3
SOC 214	INTRODUCTN TO SOCIOLOGY	3
General Elective		3
UNIV 200	CIVIC ENGAGEMENT	1
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>

Junior		
<b>Fall</b>		
CJ 212	CRIMINAL LAW	3
CJ 304	JUVENILE JUSTICE	3
CJ/SOC 451	SOCIAL STATISTICS	3
Criminal Justice Elective		3
PSY 201	GENERAL PSYCHOLOGY	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CJ 215	ETHICS IN CRIMINAL JUSTICE	3
CJ 326	ISS & PROC OF CRM JUS RS	3
Criminal Justice Eective		3
PS 135	AMERICAN GOVERNMENT	3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
CJ 483	SEMINAR IN CRIMINAL JUST	3
Criminal Justice Elective		3
Criminal Justice Elective		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CJ 333	CRIMINOLOGY	3
CJ 440	COMP STDY OF CRIMINAL JUSTICE	3
Criminal Justice Elective		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

Code	Title	Hours
CJ 100	INTRODUCTI TO CRIMINAL JUSTICE	3
CJ 210	INTRO CORRECT SERVICES	3
CJ 304	JUVENILE JUSTICE	3
CJ 326	ISS & PROC OF CRM JUS RS	3
CJ 333	CRIMINOLOGY	3
CJ 483	SEMINAR IN CRIMINAL JUST	3
CJ/SOC 451	SOCIAL STATISTICS	3
<b>Total Hours</b>		<b>21</b>

## Sociology (B.A.) Major Requirements

Code	Title	Hours
SOC 214	INTRODUCTN TO SOCIOLOGY	3
SOC 216	MODERN SOCIAL PROBLEMS	3
Sociology Electives (4)		12
SOC 325	CULTURAL ANTHROPOLOGY	3
PS 135	AMERICAN GOVERNMENT	3
or PS 136	STATE & LOCAL GOVERNMENT	
CJ 100	INTRODUCTI TO CRIMINAL JUSTICE	3
HIST 201	UNITED STATES HISTORY I	6
& HIST 202	and UNITED STATES HISTORY II	
ENG 201	Expressions in Blackness-Humanities and the African Diaspora	3
or ENG 202	Expressions in Blackness-Humanities and the African Diaspora II	
SOC 326	SOCIAL PSYCHOLOGY	3
SOC 445	METHODS OF SOC RESEARCH	3
CJ/SOC 451	SOCIAL STATISTICS	3
SOC 446	DEVL P OF SOCIAL THEORY	3
SOC 455	RACE & ETHNIC RELATIONS	3
Social Science Electives (2)		6
<b>Total Hours</b>		<b>57</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104	COMPOSITION I	3
or ENG 103	or English Composition I with Co-requisite Support	
or ENG 111	or COMPOSITION & LITERATURE FOR L	
UNIV 100	UNIVERSITY SUCCESS	2
Math option		3
Humanities & Fine Arts Option		3
Natural Science Option		3
General Elective		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105	COMPOSITION II	3
or ENG 112	or COMPOSITION	
SOC 214	INTRODUCTN TO SOCIOLOGY	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>

<sup>1</sup> Students who have completed two years of a single foreign language in high school with a grade of 'C' are exempt from foreign language requirements; however, the student must take 6 hours of general electives to replace the foreign language credits.

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will be able to determine and apply appropriate criminological perspectives to specific situations.
- Students will be able to review and analyze various types of research related to criminal justice.
- Students will be able to describe in detail the process of a criminal trial.
- Students will be able to examine, analyze, and question the presentation of facts to determine the reality of a situation.

## Criminal Justice Minor

The following courses must be completed in order to have a minor in Criminal Justice:

**Sophomore**

Fall		
PS 135 or PS 136	AMERICAN GOVERNMENT or STATE & LOCAL GOVERNMENT	3
Humanitie & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
General Elective		3
<b>Hours</b>		<b>15</b>

Spring		
CJ 100	INTRODUCTI TO CRIMINAL JUSTICE	3
PSY 201	GENERAL PSYCHOLOGY	3
SOC 216	MODERN SOCIAL PROBLEMS	3
UNIV 200	CIVIC ENGAGEMENT	1
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>

Junior		
Fall		
SOC 325	CULTURAL ANTHROPOLOGY	3
HIST 201	UNITED STATES HISTORY I	3
Sociology Elective		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>15</b>

Spring		
HIST 202	UNITED STATES HISTORY II	3
SOC 326	SOCIAL PSYCHOLOGY	3
SOC 445	METHODS OF SOC RESEARCH	3
Sociology Elective		3
Sociology Elective		3
<b>Hours</b>		<b>15</b>

Senior		
Fall		
CJ 451 or SOC 451	SOCIAL STATISTICS or SOCIAL STATISTICS	3
PHIL 301 or PHIL 309	INTRODUCTN TO PHILOSOPHY or ETHICS	3
SOC 446	DEVLP OF SOCIAL THEORY	3
Sociology Elective		3
Speech Elective		3
<b>Hours</b>		<b>15</b>

Spring		
SOC 455	RACE & ETHNIC RELATIONS	3
Sociology Elective		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

**Student Learning Outcomes**

- Students will be able to apply and summarize social issues using sociological theories.

- Students will be able to compare and contrast competing explanations of social reality.
- Students will be able to design and conduct social science research effectively.
- Students will able to find and use sociological solutions for global issues.

**Sociology Minor**

The following courses are required to minor in Sociology:

Code	Title	Hours
SOC 214	INTRODUCTN TO SOCIOLOGY	3
SOC 216	MODERN SOCIAL PROBLEMS	3
SOC 445	METHODS OF SOC RESEARCH	3
SOC 446	DEVLP OF SOCIAL THEORY	3
Sociology Electives		9
<b>Total Hours</b>		<b>21</b>

**Department of English and Foreign Languages**

Dr. Ebony O. Lumumba  
Department Chair  
ebony.o.lumumba@jsums.edu  
601-979-2249

**Faculty of English Department**

P. McDaniels; H. Crump, E. Lumumba, C. Meyer, C. Pizzetta, R. Smith-Spears F. Cosey, S. Smith D. Dixon, M. Granderson-Little, K. Harrison, L. Miller, K. Pitts, N. Ravick, J. Robinson, S. Salins, L. Sledge, C. Jackson

**Faculty of Foreign Languages Program**

H. Cunningham, B. Phillips, L. Alonso; M. Ricketts, C. Tchakoua

**Introduction/Mission**

The mission of the Department of English and Foreign Languages is to provide general, liberal, and professional education to students in languages, literature, grammar and usage, and composition. The programs enable students to communicate clearly, think critically, develop an understanding of self and others, and demonstrate an understanding and appreciation of aesthetic principles underlying the study of language, literature, and composition. To this end, the department offers courses in the core to the general student population and specialized courses to its majors, all of which promote student preparedness for both career success and engaged and informed citizenship.

**Bachelors**

- English (B.A.) (p. 99)
- English (Business Administration Concentration) B.A. (p. 100)
- English (Certification in Education ) (p. 101)
- English (Computer Science Concentration) B.A. (p. 102)
- English (Creative Writing Concentration) (p. 104)
- English (Journalism Concentration) (p. 105)
- Foreign Languages (B.A.) Primary Language French (p. 106)

- Foreign Languages (B.A.) Primary Language Spanish (p. 108)
- Foreign Languages (B.A.) Translation Studies in Spanish (p. 109)

## Minors

- English Minor (p. 106)
- French Minor (p. 110)
- Spanish Minor (p. 110)
- Translation Studies in Spanish Minor (p. 111)

## English (B.A.)

### Objectives

The area of English at Jackson State University has established the following major objectives:

- To help students develop the ability to read, think, and write clearly and critically.
- To help students understand and appreciate good writing and literature.
- To help students become aware of the truth, beauty, and wisdom of our culture to the extent that they are able to make value judgments about the society in which they live.
- To prepare students for teaching English and for other careers that require critical thinking, cultural awareness, and clear writing.
- To provide the necessary courses for all students to fulfill state and university requirements.
- To encourage students to engage in creative and scholarly writing.

## Accreditation

The Bachelor of Arts in English Education is accredited through the College of Education and Human Development's accreditation process for the Council for the Accreditation of Educator Preparation (CAEP), which has adopted the National Council of Teachers of English (NCTE) Program Standards for Initial Preparation of Teachers of Secondary English Language Arts -- Grades 7-12. These program standards were derived from NCTE's Guidelines for the Preparation of Teachers of English Language Arts. Institutions seeking CAEP accreditation are required to submit program review documents showing how their programs meet the NCTE Program Standards.

## Other Requirements/Offerings

### Departmental Policies

Students are required to earn a minimum grade of "C" in all major courses applied toward a Bachelor of Arts or a Bachelor of Science degree.

### Foreign Language Requirements

Students earning the B.A. in English, English with a journalism concentration, English with a business concentration, English with a computer science concentration or English with a concentration in Creative Writing must complete 12 semester hours of the same foreign language.

## Major Requirements

Code	Title	Hours
ENG 205	WORLD LITERATURE I	3
ENG 295	Introduction to Literary Studies	3

ENG 319	SURVEY OF ENG LITERATURE	3
ENG 321	SURVEY OF AMERICAN LITERATURE	3
ENG 418	SURVEY OF BLACK WRITERS	3
or ENG 419	SURVEY OF BLACK AUTHORS	
ENG 303	GRAMMAR & COMPOSITION	3
ENG 320	SURVEY OF ENGLISH LITERATURE	3
ENG 322	SUR OF RECENT AMER LITER	3
ENG 421	CHAUCER	3
or ENG 424	MILTON	
Period or Genre Course		3
Period or Genre Course		3
Period Course		3
Genre Course		3
ENG 423	SHAKESPEARE (COMEDIES)	3
or ENG 429	TRAGEDIES OF SHAKESPEARE	
ENG 495	SENIOR SEMINAR IN ENGLISH	3
ENG 436	LITERARY CRITICISM	3
<b>Total Hours</b>		<b>48</b>

### OTHER REQUIREMENTS/OFFERINGS

#### Departmental Policies

Students are required to earn a minimum grade of "C" in all major courses applied toward a Bachelor of Arts or a Bachelor of Science degree.

#### Foreign Language Requirements

Students earning the B.A. in English, English with a Journalism concentration, English with a Business concentration, English with a Computer Science concentration, or English with a concentration in Creative Writing must complete 12 semester hours of the same foreign language

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 111	COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
MFL - Modern Foreign Language I <sup>1</sup>		3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 112	COMPOSITION	3
SPCH 201	SPEECH ARTS	3
MFL - Modern Foreign Language II <sup>1</sup>		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ENG 205	WORLD LITERATURE I	3
MFL - Modern Foreign Language III <sup>1</sup>		3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
UNIV 200	CIVIC ENGAGEMENT	1
ENG 295	Introduction to Literary Studies	3
MFL - Modern Foreign Language IV <sup>1</sup>		3
Social & Behavioral Science Option		3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
ENG 319	SURVEY OF ENG LITERATURE	3
ENG 321	SURVEY OF AMERICAN LITERATURE	3
ENG Period Course		3
General Elective		3
ENG Period or Genre Course		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENG 303	GRAMMAR & COMPOSITION	3
ENG 320	SURVEY OF ENGLISH LITERATURE	3
ENG 322	SUR OF RECENT AMER LITER	3
ENG 418 or ENG 419	SURVEY OF BLACK WRITERS or SURVEY OF BLACK AUTHORS	3
ENG Genre Course		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ENG 421 or ENG 424	CHAUCER or MILTON	3
ENG 436	LITERARY CRITICISM	3
ENG Period or Genre Course		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENG 423 or ENG 429	SHAKESPEARE (COMEDIES) or TRAGEDIES OF SHAKESPEARE	3
ENG 495	SENIOR SEMINAR IN ENGLISH	3
General Elective		3
General Elective		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> All 4 semesters of Foreign Language must be in the same language.

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will be able to draw on relevant cultural and historical information to analyze and interpret a literary text.
- Students will be able to demonstrate familiarity with literary traditions pre- and post-1800, including identifying authors, genres, literary movements, and styles.
- Students will be able to analyze underrepresented experiences and cultural diversity, including issues of race, gender, class, sexuality, and ethnicity through the study of ethnic minority or non-Western texts.

- Students will be able to research and write focused, convincing analytical essays in clear, grammatical prose.
- Students will be able to read, write, and speak effectively in at least one foreign language.

## English (Business Administration Concentration) B.A.

Code	Title	Hours
<b>Major Requirements</b>		
ENG 319	SURVEY OF ENG LITERATURE	3
ENG 321	SURVEY OF AMERICAN LITERATURE	3
ENG 418 or ENG 419	SURVEY OF BLACK WRITERS SURVEY OF BLACK AUTHORS	3
ENG 331 or ENG 332	INTROD TO LINGUISTICS THE ENGLISH LANGUAGE	3
ENG 303	GRAMMAR & COMPOSITION	3
ENG 320	SURVEY OF ENGLISH LITERATURE	3
ENG 322	SUR OF RECENT AMER LITER	3
ENG 421 or ENG 424	CHAUCER MILTON	3
Period or Genre Course		3
ENG 423 or ENG 429	SHAKESPEARE (COMEDIES) TRAGEDIES OF SHAKESPEARE	3
ENG 495	SENIOR SEMINAR IN ENGLISH	3
ENG 436	LITERARY CRITICISM	3
<b>Concentration Courses</b>		
ECO 211	PRINCIPLES OF MACROECONOMICS	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
ECO 256	BUSINESS STATISTICS I	3
ENG 295	Introduction to Literary Studies	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
FIN 320	BUSINESS FINANCE	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MKT 351	MARKETING MANAGEMENT	3
<b>Total Hours</b>		<b>69</b>

### OTHER REQUIREMENTS/OFFERINGS

#### Departmental Policies

Students are required to earn a minimum grade of "C" in all major courses applied toward a Bachelor of Arts or a Bachelor of Science degree.

#### Foreign Language Requirements

Students earning the B.A. in English, English with a Journalism concentration, English with a Business concentration, English with a Computer Science concentration, or English with a concentration in Creative Writing must complete 12 semester hours of the same foreign language

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 111	COMPOSITION & LITERATURE FOR L	3
MATH 114 or STAT 115	Quantitative Reasoning or Introductory Statistics	3
MFL - Modern Foreign Language I <sup>1</sup>		3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 112	COMPOSITION	3
MFL - Modern Foreign Language II <sup>1</sup>		3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ECO 211	PRINCIPLES OF MACROECONOMICS	3
ENG 205	WORLD LITERATURE I	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
MFL - Modern Foreign Language III <sup>1</sup>		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
ENG 295	Introduction to Literary Studies	3
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
MFL - Modern Foreign Language IV <sup>1</sup>		3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
ENG 319	SURVEY OF ENG LITERATURE	3
ENG 321	SURVEY OF AMERICAN LITERATURE	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
ENG 331 or ENG 332	INTROD TO LINGUISTICS or THE ENGLISH LANGUAGE	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENG 303	GRAMMAR & COMPOSITION	3
ENG 320	SURVEY OF ENGLISH LITERATURE	3
ENG 322	SUR OF RECENT AMER LITER	3
ENG 418 or ENG 419	SURVEY OF BLACK WRITERS or SURVEY OF BLACK AUTHORS	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ECO 256	BUSINESS STATISTICS I	3
ENG 421 or ENG 424	CHAUCCER or MILTON	3
ENG 436	LITERARY CRITICISM	3
FIN 320	BUSINESS FINANCE	3
ENG Period or Genre Course		3
<b>Hours</b>		<b>15</b>

Code	Title	Hours
ENG 423 or ENG 429	SHAKESPEARE (COMEDIES) or TRAGEDIES OF SHAKESPEARE	3
ENG 495	SENIOR SEMINAR IN ENGLISH	3
GB 201	INTRO TO LEGAL ASPECTS OF BUSI	3
MKT 351	MARKETING MANAGEMENT	3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>123</b>

<sup>1</sup> All 4 semesters of Foreign Language must be in the same language.

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will be able to draw on relevant cultural and historical information to analyze and interpret a literary text.
- Students will be able to demonstrate familiarity with literary traditions pre- and post-1800, including identifying authors, genres, literary movements, and styles.
- Students will be able to analyze underrepresented experiences and cultural diversity, including issues of race, gender, class, sexuality, and ethnicity through the study of ethnic minority or non-Western texts.
- Students will be able to research and write focused, convincing analytical essays in clear, grammatical prose.
- Students will be able to read, write, and speak effectively in at least one foreign language.

## English (Certification in Education )

Code	Title	Hours
<b>Major Requirements</b>		
ENG 295	Introduction to Literary Studies	3
ENG 316	ADOLESCENT & YOUNG ADULT LIT	3
ENG 319	SURVEY OF ENG LITERATURE	3
ENG 321	SURVEY OF AMERICAN LITERATURE	3
ENG 418 or ENG 419	SURVEY OF BLACK WRITERS SURVEY OF BLACK AUTHORS	3
ENG 331 or ENG 332	INTROD TO LINGUISTICS THE ENGLISH LANGUAGE	3
ENG 320	SURVEY OF ENGLISH LITERATURE	3
ENG 322	SUR OF RECENT AMER LITER	3
<b>Period or Genre Courses</b>		
ENG 402	LANG ARTS IN SECONDARY SCHOOLS	3
ENG 423 or ENG 429	SHAKESPEARE (COMEDIES) TRAGEDIES OF SHAKESPEARE	3
ENG 495	SENIOR SEMINAR IN ENGLISH	3
ENG 436	LITERARY CRITICISM	3
<b>Concentration Courses</b>		
EDCI 100	INTRODUCTION TO EDUCATION	3
SS 301	INQRY-BASED INSTRN N GEOG & CE	3

COUN 315	Human Growth and Development	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
RE 455	DIAG RD INST N/SECYD SCH	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
<b>Total Hours</b>		<b>75</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 111	COMPOSITION & LITERATURE FOR L	3
MATH 114 or STAT 115	Quantitative Reasoning or Introductory Statistics	3
UNIV 100	UNIVERSITY SUCCESS	2
MFL - Modern Foreign Language I <sup>1</sup>		3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 112	COMPOSITION	3
EDCI 100	INTRODUCTION TO EDUCATION	3
MFL - Modern Foreign Language II <sup>1</sup>		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
<b>Register for PRAXIS I Exam</b>		
COUN 315	Human Growth and Development	3
ETEC 336	ADV MULTIMEDIA IN CLASSROOM	3
ENG 295	Introduction to Literary Studies	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
<b>Take the PRAXIS I Exam</b>		
SPCH 201	SPEECH ARTS	3
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
<b>Apply for Teacher Education</b>		
ENG 319	SURVEY OF ENG LITERATURE	3
ENG 321	SURVEY OF AMERICAN LITERATURE	3
ENG 331 or ENG 332	INTROD TO LINGUISTICS or THE ENGLISH LANGUAGE	3
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENG 316	ADOLESCENT & YOUNG ADULT LIT	3
ENG 320	SURVEY OF ENGLISH LITERATURE	3
ENG 322	SUR OF RECENT AMER LITER	3

ENG 418 or ENG 419	SURVEY OF BLACK WRITERS or SURVEY OF BLACK AUTHORS	3
RE 310	TCHNG READING IN CONTENT AREAS	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ENG 402	LANG ARTS IN SECONDARY SCHOOLS	3
ENG 423	SHAKESPEARE (COMEDIES)	3
ENG 436	LITERARY CRITICISM	3
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
ENG 495	SENIOR SEMINAR IN ENGLISH	3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>123</b>

<sup>1</sup> Both semesters of Foreign Language must be in the same language.

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will be able to draw on relevant cultural and historical information to analyze and interpret a literary text.
- Students will be able to demonstrate familiarity with literary traditions pre- and post-1800, including identifying authors, genres, literary movements, and styles.
- Students will be able to analyze underrepresented experiences and cultural diversity, including issues of race, gender, class, sexuality, and ethnicity through the study of ethnic minority or non-Western texts.
- Students will be able to research and write focused, convincing analytical essays in clear, grammatical prose.
- Students will be able to read, write, and speak effectively in at least one foreign language.

## English (Computer Science Concentration) B.A.

Code	Title	Hours
<b>Major Requirements</b>		
ENG 319	SURVEY OF ENG LITERATURE	3
ENG 321	SURVEY OF AMERICAN LITERATURE	3
ENG 418 or ENG 419	SURVEY OF BLACK WRITERS SURVEY OF BLACK AUTHORS	3
ENG 331 or ENG 332	INTROD TO LINGUISTICS THE ENGLISH LANGUAGE	3
ENG 303	GRAMMAR & COMPOSITION	3
ENG 320	SURVEY OF ENGLISH LITERATURE	3
ENG 322	SUR OF RECENT AMER LITER	3

ENG 421	CHAUCER	3
or ENG 424	MILTON	
Period or Genre Course		3
ENG 423	SHAKESPEARE (COMEDIES)	3
or ENG 429	TRAGEDIES OF SHAKESPEARE	
ENG 495	SENIOR SEMINAR IN ENGLISH	3
ENG 436	LITERARY CRITICISM	3
<b>Concentration Courses</b>		
CSC 118	COMPUTER SCIENCE I	3
CSC 119	COMPUTER SCIENCE II	3
Computer Science 200 level or higher Elective		3
CSC 225	DISCRETE STRUCTURES	3
MATH 112	PLANE TRIGONOMETRY	3
CSC 216	COMPUTER ARCHITECTURE & ORGNZA	3
CSC 228	DATA STRUCTURES & ALGORITHMS	3
Computer Science 200 level or higher Elective		3
<b>Total Hours</b>		<b>60</b>

**OTHER REQUIREMENTS/OFFERINGS**

**Departmental Policies**

Students are required to earn a minimum grade of “C” in all major courses applied toward a Bachelor of Arts or a Bachelor of Science degree.

**Foreign Language Requirements**

Students earning the B.A. in English, English with a Journalism concentration, English with a Business concentration, English with a Computer Science concentration or English with a concentration in Creative Writing must complete 12 semester hours of the same foreign language

**Curriculum Map**

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 111	COMPOSITION & LITERATURE FOR L	3
MATH 111	COLLEGE ALGEBRA	3
MFL - Modern Foreign Language I <sup>1</sup>		3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 112	COMPOSITION	3
MFL - Modern Foreign Language II <sup>1</sup>		3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
CSC 115	DIGITAL COMPUTER PRINCIPLES	3
ENG 205	WORLD LITERATURE I	3
MFL - Modern Foreign Language III <sup>1</sup>		3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>18</b>

<b>Spring</b>		
MFL - Modern Foreign Language IV <sup>1</sup>		3
ENG 295	Introduction to Literary Studies	3
CSC 118	COMPUTER SCIENCE I	3
UNIV 200	CIVIC ENGAGEMENT	1
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
CSC 119	COMPUTER SCIENCE II	3
ENG 319	SURVEY OF ENG LITERATURE	3
ENG 321	SURVEY OF AMERICAN LITERATURE	3
ENG 331	INTROD TO LINGUISTICS	3
or ENG 332	or THE ENGLISH LANGUAGE	
ENG 418	SURVEY OF BLACK WRITERS	3
or ENG 419	or SURVEY OF BLACK AUTHORS	
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CSC 225	DISCRETE STRUCTURES	3
ENG 303	GRAMMAR & COMPOSITION	3
ENG 320	SURVEY OF ENGLISH LITERATURE	3
ENG 322	SUR OF RECENT AMER LITER	3
MATH 112	PLANE TRIGONOMETRY	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
CSC 216	COMPUTER ARCHITECTURE & ORGNZA	3
CSC 228	DATA STRUCTURES & ALGORITHMS	3
ENG 421	CHAUCER	3
or ENG 424	or MILTON	
ENG 436	LITERARY CRITICISM	3
<b>Hours</b>		<b>12</b>
<b>Spring</b>		
ENG 423	SHAKESPEARE (COMEDIES)	3
or ENG 429	or TRAGEDIES OF SHAKESPEARE	
ENG 495	SENIOR SEMINAR IN ENGLISH	3
Period or Genre Course		3
Period or Genre Course		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> All 4 semesters of Foreign Language must be in the same language.

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

**Student Learning Outcomes (B.A. in English)**

- Students will be able to draw on relevant cultural and historical information to analyze and interpret a literary text.
- Students will be able to demonstrate familiarity with literary traditions pre- and post-1800, including identifying authors, genres, literary movements, and styles.



- Students will be able to analyze underrepresented experiences and cultural diversity, including issues of race, gender, class, sexuality, and ethnicity through the study of ethnic minority or non-Western texts.
- Students will be able to research and write focused, convincing analytical essays in clear, grammatical prose.
- Students will be able to read, write, and speak effectively in at least one foreign language.

## English (Creative Writing Concentration)

Code	Title	Hours
<b>Major Requirements</b>		
ENG 295	Introduction to Literary Studies	3
ENG 319	SURVEY OF ENG LITERATURE	3
ENG 321	SURVEY OF AMERICAN LITERATURE	3
ENG 418	SURVEY OF BLACK WRITERS	3
or ENG 419	SURVEY OF BLACK AUTHORS	
ENG 303	GRAMMAR & COMPOSITION	3
ENG 320	SURVEY OF ENGLISH LITERATURE	3
ENG 322	SUR OF RECENT AMER LITER	3
ENG 421	CHAUCER	3
or ENG 424	MILTON	
Genre Course		3
Period Course		3
ENG 423	SHAKESPEARE (COMEDIES)	3
or ENG 429	TRAGEDIES OF SHAKESPEARE	
Period or Genre Course		3
Period or Genre Course		3
ENG 436	LITERARY CRITICISM	3
<b>Concentration Courses</b>		
ENG 300	Introduction to Creative Writing	3
ENG 304	FUNDAMENTALS OF POETRY	3
ENG 306	FUNDAMENTALS OF FICTION	3
ENG 351	ELEMENTS OF NONFICTION	3
ENG 404	RICHARD WRIGHT:20TH CENTURY PR	3
ENG 407	FORMS OF POETRY	3
ENG 408	FORMS OF FICTION	3
ENG 405	MARGARET WALKER:FICTION & POET	3
ENG 495	SENIOR SEMINAR IN ENGLISH	3
Creative Writing Elective (See Advisor)		3
<b>Total Hours</b>		<b>72</b>

### OTHER REQUIREMENTS/OFFERINGS

#### Departmental Policies

Students are required to earn a minimum grade of "C" in all major courses applied toward a Bachelor of Arts or a Bachelor of Science degree.

#### Foreign Language Requirements

Students earning the B.A. in English, English with a Journalism concentration, English with a Business concentration, English with a Computer Science concentration or English with a concentration in

Creative Writing must complete 12 semester hours of the same foreign language

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 111	COMPOSITION & LITERATURE FOR L	3
MATH 114 or STAT 115	Quantitative Reasoning or Introductory Statistics	3
MFL - Modern Foreign Language I <sup>1</sup>		3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 112	COMPOSITION	3
SPCH 201	SPEECH ARTS	3
MFL - Modern Foreign Language II <sup>1</sup>		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ENG 205	WORLD LITERATURE I	3
ENG 295	Introduction to Literary Studies	3
MFL - Modern Foreign Language III <sup>1</sup>		3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
ENG 300	Introduction to Creative Writing	3
UNIV 200	CIVIC ENGAGEMENT	1
MFL - Modern Foreign Language IV <sup>1</sup>		3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
ENG 304	FUNDAMENTALS OF POETRY	3
ENG 319	SURVEY OF ENG LITERATURE	3
ENG 321	SURVEY OF AMERICAN LITERATURE	3
ENG - Period Course		3
ENG - Period or Genre Course		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENG 303	GRAMMAR & COMPOSITION	3
ENG 320	SURVEY OF ENGLISH LITERATURE	3
ENG 322	SUR OF RECENT AMER LITER	3
ENG 418	SURVEY OF BLACK WRITERS	3
or ENG 419	or SURVEY OF BLACK AUTHORS	
ENG 306	FUNDAMENTALS OF FICTION	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ENG 351	ELEMENTS OF NONFICTION	3
ENG 407	FORMS OF POETRY	3
ENG 408	FORMS OF FICTION	3
ENG 421	CHAUCER	3
or ENG 424	or MILTON	

ENG 436	LITERARY CRITICISM	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENG 423 or ENG 429	SHAKESPEARE (COMEDIES) or TRAGEDIES OF SHAKESPEARE	3
ENG 495	SENIOR SEMINAR IN ENGLISH	3
ENG - Genre Course		3
General Elective		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>123</b>

<sup>1</sup> All 4 semesters of Foreign Language must be in the same language.

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will be able to draw on relevant cultural and historical information to analyze and interpret a literary text.
- Students will be able to demonstrate familiarity with literary traditions pre- and post-1800, including identifying authors, genres, literary movements, and styles.
- Students will be able to analyze underrepresented experiences and cultural diversity, including issues of race, gender, class, sexuality, and ethnicity through the study of ethnic minority or non-Western texts.
- Students will be able to research and write focused, convincing analytical essays in clear, grammatical prose.
- Students will be able to read, write, and speak effectively in at least one foreign language.

## English (Journalism Concentration)

Code	Title	Hours
<b>Major Requirements</b>		
ENG 295	Introduction to Literary Studies	3
ENG 319	SURVEY OF ENG LITERATURE	3
ENG 321	SURVEY OF AMERICAN LITERATURE	3
ENG 418 or ENG 419	SURVEY OF BLACK WRITERS SURVEY OF BLACK AUTHORS	3
ENG 331 or ENG 332	INTROD TO LINGUISTICS THE ENGLISH LANGUAGE	3
ENG 303	GRAMMAR & COMPOSITION	3
ENG 320	SURVEY OF ENGLISH LITERATURE	3
ENG 322	SUR OF RECENT AMER LITER	3
ENG 421 or ENG 424	CHAUCER MILTON	3
Period or Genre Course		6
ENG 423 or ENG 429	SHAKESPEARE (COMEDIES) TRAGEDIES OF SHAKESPEARE	3
ENG 495	SENIOR SEMINAR IN ENGLISH	3
ENG 436	LITERARY CRITICISM	3
<b>Concentration Courses</b>		

JMS 201	INTRODUCTION TO MEDIA WRITING	3
JMS 301	INTRODUCTION TO NEWS REPORTING	3
JMS 305	COPY EDITING	3
JMS 320	ONLINE JOURNALISM	3
JMS 400	MEDIA LAW	3
JMS 404	FEATURE WRITING	3
Mass Communication 300 or 400 Level Elective		3
<b>Total Hours</b>		<b>63</b>

## OTHER REQUIREMENTS/OFFERINGS

### Departmental Policies

Students are required to earn a minimum grade of "C" in all major courses applied toward a Bachelor of Arts or a Bachelor of Science degree.

### Foreign Language Requirements

Students earning the B.A. in English, English with a Journalism concentration, English with a Business concentration, English with a Computer Science concentration or English with a concentration in Creative Writing must complete 12 semester hours of the same foreign language

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 111	COMPOSITION & LITERATURE FOR L	3
MFL - Modern Foreign Language I <sup>1</sup>		3
MATH 114	Quantitative Reasoning	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 112	COMPOSITION	3
MFL - Modern Foreign Language II <sup>1</sup>		3
SPCH 201	SPEECH ARTS	3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ENG 205	WORLD LITERATURE I	3
JMS 201	INTRODUCTION TO MEDIA WRITING	3
MFL - Modern Foreign Language III <sup>1</sup>		3
Natural Science Option		3
Pathway		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MFL - Modern Language Option IV <sup>1</sup>		3
ENG 295	Introduction to Literary Studies	3
UNIV 200	CIVIC ENGAGEMENT	1
Humanities or Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
ENG 319	SURVEY OF ENG LITERATURE	3
ENG 321	SURVEY OF AMERICAN LITERATURE	3

ENG 418 or ENG 419	SURVEY OF BLACK WRITERS or SURVEY OF BLACK AUTHORS	3
JMS 301	INTRODUCTION TO NEWS REPORTING	3
JMS 305	COPY EDITING	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENG 303	GRAMMAR & COMPOSITION	3
ENG 320	SURVEY OF ENGLISH LITERATURE	3
ENG 322	SUR OF RECENT AMER LITER	3
ENG 331 or ENG 332	INTROD TO LINGUISTICS or THE ENGLISH LANGUAGE	3
JMS 320	ONLINE JOURNALISM	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
ENG 423 or ENG 429	SHAKESPEARE (COMEDIES) or TRAGEDIES OF SHAKESPEARE	3
ENG 436	LITERARY CRITICISM	3
JMS 400	MEDIA LAW	3
JMS 404	FEATURE WRITING	3
JMS- 300-400 Level Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENG 421 or ENG 424	CHAUCER or MILTON	3
ENG 495	SENIOR SEMINAR IN ENGLISH	3
ENG - Period or Genre Course		3
ENG - Period or Genre Course		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>123</b>

<sup>1</sup> All 4 semesters of Foreign Language must be in the same language.

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will be able to draw on relevant cultural and historical information to analyze and interpret a literary text.
- Students will be able to demonstrate familiarity with literary traditions pre- and post-1800, including identifying authors, genres, literary movements, and styles.
- Students will be able to analyze underrepresented experiences and cultural diversity, including issues of race, gender, class, sexuality, and ethnicity through the study of ethnic minority or non-Western texts.
- Students will be able to research and write focused, convincing analytical essays in clear, grammatical prose.
- Students will be able to read, write, and speak effectively in at least one foreign language.

## English Minor

The minor in English requires a minimum of 21 credit hours in English including:

Code	Title	Hours
ENG 303	GRAMMAR & COMPOSITION	3
ENG 331 or ENG 332	INTROD TO LINGUISTICS THE ENGLISH LANGUAGE	3
ENG 319	SURVEY OF ENG LITERATURE	3
ENG 320	SURVEY OF ENGLISH LITERATURE	3
ENG 321	SURVEY OF AMERICAN LITERATURE	3
ENG 322	SUR OF RECENT AMER LITER	3
Select one of the following:		3
ENG 421	CHAUCER	
ENG 423	SHAKESPEARE (COMEDIES)	
ENG 429	TRAGEDIES OF SHAKESPEARE	
<b>Total Hours</b>		<b>21</b>

The minor in Creative Writing requires a minimum of 21 credit hours in English including:

Code	Title	Hours
ENG 300	Introduction to Creative Writing	3
ENG 304	FUNDAMENTALS OF POETRY	3
ENG 306	FUNDAMENTALS OF FICTION	3
ENG 407	FORMS OF POETRY	3
ENG 408	FORMS OF FICTION	3
ENG 496	CREATIVE WRITING CAPSTONE	3
Select one of the following:		
ENG 351	ELEMENTS OF NONFICTION	3
DR 314	FUNDAMENTALS OF PLAYWRITING	
<b>Total Hours</b>		<b>21</b>

## Foreign Languages (B.A.) Primary Language French

The Department of English, Foreign Languages, and Speech Communication offers a Bachelor of Arts degree in foreign languages with a concentration in either French, Spanish, or Translation Studies. Students may also minor in French, Spanish, or Translation Studies.

## Objectives

The primary objectives of general foreign language instruction at Jackson State University are those shared by most foreign language departments today:

- To teach the student the fundamental skills of speaking, reading, and writing in the foreign language.
- To help the student to develop an understanding of and a respect for another culture.
- To give the student an awareness and appreciation of the aesthetic and intellectual history of the target culture and of its present-day manifestations.
- To help the student comprehend, analyze and explicate literary works in the foreign language.
- To help the student acquire command of the target language as a tool for written and oral communication.
- To provide for the student's training so that they are capable of teaching and transmitting to others the skills, attitudes, and abilities.

## Major Requirements

Code	Title	Hours
FR 201 & FR 202	INTERMEDIATE FRENCH and INTERMEDIATE FRENCH	6
FR 230	French Civilization Studies	3
FR 231	FRENCH CIVILIZATION STDS	3
FR 311	Survey of French Literature I	3
FR 312	Survey of French Literature II	3
FR 321 & FR 322	FRENCH COMPOSITION & CONVERSATI and FRENCH CONV. & COMP.	6
SP 101 & SP 102	ELEMENTARY SPANISH and ELEMENTARY SPANISH	6
FR 421	Advance Topics for Conversation	3
FR 422	ADVANCED TOPICS FOR CONVERSATI	3
SP 201 & SP 202	INTERMEDIATE SPANISH and INTERMEDIATE SPANISH	6
SP 230	Spanish Civilization Studies	3
SP 231	Spanish -American Civilization Studies	3
SP 321 & SP 322	CONVERSATION & COMPOSITN and CONVERSATION & COMPOSITN	6
<b>Total Hours</b>		<b>54</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
FR 101	ELEMENTARY FRENCH	3
ENG 111	COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 112	COMPOSITION	3
FR 102	ELEMENTARY FRENCH	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ENG 205	WORLD LITERATURE I	3
FR 201	INTERMEDIATE FRENCH	3
SP 101	ELEMENTARY SPANISH	3
FR 230	French Civilization Studies	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
FR 202	INTERMEDIATE FRENCH	3
FR 231	FRENCH CIVILIZATION STDS	3
SP 102	ELEMENTARY SPANISH	3
UNIV 200	CIVIC ENGAGEMENT	1
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>

### Junior

#### Fall

FR 321	FRENCH COMPOSITION & CONVERSATI	3
SP 201	INTERMEDIATE SPANISH	3
FR 311	Survey of French Literature I	3
ENG - English Elective (206-228)		3
SP 230	Spanish Civilization Studies	3
<b>Hours</b>		<b>15</b>

#### Spring

FR 322	FRENCH CONV. & COMP.	3
SP 202	INTERMEDIATE SPANISH	3
FR 312	Survey of French Literature II	3
SPCH 215	TRAINING THE SPEAKING VOICE	3
SP 231	Spanish-American Civilization Studies	3
<b>Hours</b>		<b>15</b>

### Senior

#### Fall

FR 321	FRENCH COMPOSITION & CONVERSATI	3
FR 421	Advance Topics for Conversation	3
GEOG 105	INTRO TO CULTURAL GEOGRAPHY	3
Social & Behavioral Science Option		3
General Elective		3
<b>Hours</b>		<b>15</b>

#### Spring

FR 422	ADVANCED TOPICS FOR CONVERSATI	3
SP 322	CONVERSATION & COMPOSITN	3
General Elective		3
General Elective		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>123</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will demonstrate proficiency in speaking the target language with an interlocutor and are able to handle a variety of communicative tasks, including inference in conversations and interpretation of topics related to formal introductions, education, description of concepts relevant to their specific career and relevant to current events.
- Students demonstrate proficiency in listening in the target language and are able to handle a variety of communicative tasks, including interpreting or inferring meaning in conversations on topics related to formal introductions, education, description of concepts relevant to their specific career and relevant to current events with an interlocutor. Students are able to listen to short missives or narratives and/or watch short and feature-length films, listen to and interpret key modes of differentiation between intercultural attitudes and dialectal differentiation.
- Students demonstrate proficiency in writing in the target language, including the ability to identify, break down, classify and produce different types of writing, i.e., dialogue, narration, technical writing, description and argumentative essays.
- Students demonstrate proficiency in reading the target language, including the ability to identify, differentiate, categorize and explain

different types of writing and the purpose of each type of writing, i.e., dialogue, narration, technical writing, description and argumentative essays.

- Students apply intercultural competence, critical thinking and analytical abilities, including structured knowledge and understanding of other cultures and their norms as they relate to linguistic variance, literature and the professions.

## Foreign Languages (B.A.) Primary Language Spanish

The Department of English, Foreign Languages, and Speech Communication offers a Bachelor of Arts degree in foreign languages with a concentration in either French, Spanish, or Translation Studies. Students may also minor in French, Spanish, or Translation Studies.

### Objectives

The primary objectives of general foreign language instruction at Jackson State University are those shared by most foreign language departments today:

- To teach the student the fundamental skills of speaking, reading, and writing in the foreign language.
- To help the student to develop an understanding of and a respect for another culture.
- To give the student an awareness and appreciation of the aesthetic and intellectual history of the target culture and of its present-day manifestations.
- To help the student comprehend, analyze and explicate literary works in the foreign language.
- To help the student acquire command of the target language as a tool for written and oral communication.
- To provide for the student’s training so that they are capable of teaching and transmitting to others the skills, attitudes, and abilities.

### Major Requirements

Code	Title	Hours
SP 201 & SP 202	INTERMEDIATE SPANISH and INTERMEDIATE SPANISH	6
SP 230	Spanish Civilization Studies	3
SP 231	Spanish American Civilization Studies	3
SP 321 & SP 322	CONVERSATION & COMPOSITN and CONVERSATION & COMPOSITN	6
SP 313	LANDMARKS OF PENIN-SP LT	3
SP 317	LANDMARK OF SPAN-AMER LT	3
SP 421 & SP 422	ADV TOPICS FOR CONVERSTN and ADV TOPICS FOR CONVERSTN	6
FR 101 & FR 102	ELEMENTARY FRENCH and ELEMENTARY FRENCH	6
FR 201 & FR 202	INTERMEDIATE FRENCH and INTERMEDIATE FRENCH	6
FR 230	French Civilization Studies	3
FR 231	FRENCH CIVILIZATION STDS	3
FR 321 & FR 322	FRENCH COMPOSITION & CONVERSATI and FRENCH CONV. & COMP.	6
<b>Total Hours</b>		<b>54</b>

### Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 111	COMPOSITION & LITERATURE FOR L	3
SP 101	ELEMENTARY SPANISH <sup>1</sup>	3
MATH 114	Quantitative Reasoning	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 112	COMPOSITION	3
SP 102	ELEMENTARY SPANISH <sup>1</sup>	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
ENG 205	WORLD LITERATURE I	3
FR 101	ELEMENTARY FRENCH	3
SP 201	INTERMEDIATE SPANISH <sup>1</sup>	3
Humanities & Fine Arts Option		3
SP 230 Spanish Civilization Studies		3
Pathway Option		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
FR 102	ELEMENTARY FRENCH	3
SP 202	INTERMEDIATE SPANISH <sup>1</sup>	3
UNIV 200	CIVIC ENGAGEMENT	1
SP 231 Spanish-American Civilization Studies		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
FR 201	INTERMEDIATE FRENCH	3
FR 230 French Civilization Studies		3
SP 311 Survey of Spanish Literature I		3
SP 321 CONVERSATION & COMPOSITN		3
ENG - English Elective (206-228)		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
FR 231	FRENCH CIVILIZATION STDS	3
FR 202	INTERMEDIATE FRENCH	3
SP 317	LANDMARK OF SPAN-AMER LT	3
SP 322	CONVERSATION & COMPOSITN	3
SPCH 215	TRAINING THE SPEAKING VOICE	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
FR 321	FRENCH COMPOSITION & CONVERSATI	3
GEOG 105	INTRO TO CULTURAL GEOGRAPHY	3
SP 421	ADV TOPICS FOR CONVERSTN	3
Social & Behavioral Science Option		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
FR 322	FRENCH CONV. & COMP.	3
SP 422	ADV TOPICS FOR CONVERSTN	3

General Elective	3
General Elective	3
<b>Hours</b>	<b>12</b>
<b>Total Hours</b>	<b>123</b>

<sup>1</sup> All 4 semesters of Foreign Language must be in the same language.

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will demonstrate proficiency in speaking the target language with an interlocutor and are able to handle a variety of communicative tasks, including inference in conversations and interpretation of topics related to formal introductions, education, description of concepts relevant to their specific career and relevant to current events.
- Students demonstrate proficiency in listening in the target language and are able to handle a variety of communicative tasks, including interpreting or inferring meaning in conversations on topics related to formal introductions, education, description of concepts relevant to their specific career and relevant to current events with an interlocutor. Students are able to listen to short missives or narratives and/or watch short and feature-length films, listen to and interpret key modes of differentiation between intercultural attitudes and dialectal differentiation.
- Students demonstrate proficiency in writing in the target language, including the ability to identify, break down, classify and produce different types of writing, i.e., dialogue, narration, technical writing, description and argumentative essays.
- Students demonstrate proficiency in reading the target language, including the ability to identify, differentiate, categorize and explain different types of writing and the purpose of each type of writing, i.e., dialogue, narration, technical writing, description and argumentative essays.
- Students apply intercultural competence, critical thinking and analytical abilities, including structured knowledge and understanding of other cultures and their norms as they relate to linguistic variance, literature and the professions.

## Foreign Languages (B.A.) Translation Studies in Spanish

The Department of English, Foreign Languages, and Speech Communication offers a Bachelor of Arts degree in foreign languages with a concentration in either French, Spanish, or Translation Studies. Students may also minor in French, Spanish, or Translation Studies.

### Objectives

The primary objectives of general foreign language instruction at Jackson State University are those shared by most foreign language departments today:

- To teach the student the fundamental skills of speaking, reading, and writing in the foreign language.
- To help the student to develop an understanding of and a respect for another culture.
- To give the student an awareness and appreciation of the aesthetic and intellectual history of the target culture and of its present-day manifestations.
- To help the student comprehend, analyze and explicate literary works in the foreign language.
- To help the student acquire command of the target language as a tool for written and oral communication.
- To provide for the student's training so that they are capable of teaching and transmitting to others the skills, attitudes, and abilities.

Code	Title	Hours
SP 201 & SP 202	INTERMEDIATE SPANISH and INTERMEDIATE SPANISH	6
SP 313	LANDMARKS OF PENIN-SP LT	3
SP 317	LANDMARK OF SPAN-AMER LT	3
SP 321 & SP 322	CONVERSATION & COMPOSITN and CONVERSATION & COMPOSITN	6
SP 425	ADVANCED SPANISH GRAMMAR	3
SP 430	History of Spanish Peninsular Civilization	3
SP 431	History of Latin American Civilization	3
SP 405	Literary Translation and Localization	3
SP 406	Technical Translation and Localization	3
SP 407	SPANISH FOR THE PROFESSIONS	3
SP 486	TRANSLATION CAPSTONE	3
Spanish Course Elective 300-400		3

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 111	COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
SP 101	ELEMENTARY SPANISH <sup>1</sup>	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>

<b>Spring</b>		
ENG 112	COMPOSITION	3
SP 102	ELEMENTARY SPANISH <sup>1</sup>	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>

<b>Sophomore</b>		
<b>Fall</b>		
ENG 205	WORLD LITERATURE I	3
SP 201	INTERMEDIATE SPANISH <sup>1</sup>	3
Humanities & Fine Arts Options		3
Pathway Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
ENG - English Elective (206-228)		3
GEOG 105	INTRO TO CULTURAL GEOGRAPHY	3
SP 202	INTERMEDIATE SPANISH <sup>1</sup>	3

UNIV 200		1
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
PHIL 301 or PHIL 416	INTRODUCTN TO PHILOSOPHY or LOGIC	3
SP 313	LANDMARKS OF PENIN-SP LT	3
or 300/400 Level Spanish Course		
SP 321 or SP 421	CONVERSATION & COMPOSITN or ADV TOPICS FOR CONVERSTN	3
SP 425	ADVANCED SPANISH GRAMMAR	3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
SP 317	LANDMARK OF SPAN-AMER LT	3
or 300/400 Level Spanish Course		
SP 322 or SP 422	CONVERSATION & COMPOSITN or ADV TOPICS FOR CONVERSTN	3
SP 430	History of Spanish Peninsular Civilization	3
or 300/400 Level Spanish Course		
SPCH 215	TRAINING THE SPEAKING VOICE	3
<b>Hours</b>		<b>12</b>
<b>Senior</b>		
<b>Fall</b>		
SP 405	Literary Translation and Localization	3
SP 406	Technical Translation and Localization	3
SP 407	SPANISH FOR THE PROFESSIONS	3
SP 431	History of Latin American Civilization	3
or SP 300/400 Level Spanish Course		
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
SP 486	TRANSLATION CAPSTONE	3
SP 300/400 Level Spanish Course		
General Elective		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> All \$ semesters of Foreign Language must be in the same language.

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

## Student Learning Outcomes

- Students will demonstrate proficiency in speaking the target language with an interlocutor and are able to handle a variety of communicative tasks, including inference in conversations and interpretation of topics related to formal introductions, education, description of concepts relevant to their specific career and relevant to current events.
- Students demonstrate proficiency in listening in the target language and are able to handle a variety of communicative tasks, including

interpreting or inferring meaning in conversations on topics related to formal introductions, education, description of concepts relevant to their specific career and relevant to current events with an interlocutor. Students are able to listen to short missives or narratives and/or watch short and feature-length films, listen to and interpret key modes of differentiation between intercultural attitudes and dialectal differentiation.

- Students demonstrate proficiency in writing in the target language, including the ability to identify, break down, classify and produce different types of writing, i.e., dialogue, narration, technical writing, description and argumentative essays.
- Students demonstrate proficiency in reading the target language, including the ability to identify, differentiate, categorize and explain different types of writing and the purpose of each type of writing, i.e., dialogue, narration, technical writing, description and argumentative essays.
- Students apply intercultural competence, critical thinking and analytical abilities, including structured knowledge and understanding of other cultures and their norms as they relate to linguistic variance, literature and the professions.

## French Minor

A minor in French or Spanish requires eighteen (18) hours of college-level language courses with at least six (6) credit hours at the 300 or 400 level. Students should consult with the department to complete a placement test and determine which courses best prepare the student in the minor. The minor in each language may include courses from the following lists.

Code	Title	Hours
FR 101 & FR 102	ELEMENTARY FRENCH and ELEMENTARY FRENCH	6
FR 201 & FR 202	INTERMEDIATE FRENCH and INTERMEDIATE FRENCH	6
FR 321 & FR 322	FRENCH COMPOSITION & CONVERSATI and FRENCH CONV. & COMP.	6
<b>Total Hours</b>		<b>18</b>

## Spanish Minor

A minor in French or Spanish requires eighteen (18) hours of college-level language courses with at least six (6) credit hours at the 300 or 400 level. Students should consult with the department to complete a placement test and determine which courses best prepare the student in the minor. The minor in each language may include courses from the following lists.

## Minor Requirements

Code	Title	Hours
SP 101 & SP 102	ELEMENTARY SPANISH and ELEMENTARY SPANISH	6
SP 201 & SP 202	INTERMEDIATE SPANISH and INTERMEDIATE SPANISH	6
SP 321 & SP 322	CONVERSATION & COMPOSITN and CONVERSATION & COMPOSITN	6
<b>Total Hours</b>		<b>18</b>

## Translation Studies in Spanish Minor

A minor in Translation Studies in Spanish requires 21 total Spanish credits to include a minimum of 9 credits at the 300/400 course level, of which SP 405 Literary Translation and Localization and SP 406 Technical Translation and Localization are required.

Code	Title	Hours
SP 101 & SP 102	ELEMENTARY SPANISH and ELEMENTARY SPANISH	6
SP 201 & SP 202	INTERMEDIATE SPANISH and INTERMEDIATE SPANISH	6
SP 405	Literary Translation and Localization	3
SP 406	Technical Translation and Localization	3
SP 300/400	Course Elective	3
<b>Total Hours</b>		<b>21</b>

## Department of History and Philosophy

Dr. Mario Azevedo  
Department Chair  
mario.j.azevedo@jsums.edu  
601-979-2493

### Faculty of Department

R. Lockett, L. Roopnarine, J. Brockley, K. Barima, C. Turnipseed, J. Cotton, A. Dorsey, D. Roberts, R. Chapman

### Introduction/Mission

The department's mission is to nurture global citizens and lifelong learners through the study of humanity's vast and diverse past and to equip our students with research, analytical, and communication skills to succeed in a variety of careers.

The department offers a Bachelor of Science degree for students who wish to be teachers. Students in this degree program combine history and education courses and finish as licensed teachers. The department also offers a Bachelor of Arts degree for students interested in other careers, including public history. There is also a concentration or minor in history.

### Objectives

The Department of History and Philosophy's objectives are:

- To promote historical literacy through the transmission of knowledge about the human experience.
- To emphasize the diversity of the human historical experience and the multicultural basis of the contemporary global village.
- To provide the opportunity and occasion for students to hone their verbal and writing skills.
- To promote student learning and mastery via conceptual, analytical, and critical thought.
- To expose students to the skills, techniques, and opportunities necessary to conduct archival and primary document research. As future professionals, graduates will find it necessary to access, process, interpret, and present information.

## Bachelor

- History (B.A.) (p. 111)
- History (B.S.) Education Concentration (p. 112)

## Minor

- History Minor (p. 113)

## History (B.A.)

A BA in history prepares you to grapple with difficult questions. Studying history allows you to explore your heritage and the complex world in which we live. A history degree gives you the problem-solving skills and capabilities to succeed in law, business, education, and government. Our graduates have become lawyers, archivists, and university professors.

## Other Requirements

- Students must receive at least a "C" in any History course for it to be accepted towards degree requirements.
- Students must have at least a 2.0 GPA to be enrolled in HIST 344 HISTORIOGRAPHY or HIST 447 RESEARCH SEMINAR.

## Major Requirements

Code	Title	Hours
HIST 111 & HIST 112	HISTORY OF CIVILIZATION I and HISTORY OF CIVILIZATION II	6
History Electives (7)		21
HIST 202 or HIST 222	UNITED STATES HISTORY II UNITED STATES HISTORY II	3
HIST 201 or HIST 221	UNITED STATES HISTORY I UNITED STATES HISTORY I	3
HIST 344	HISTORIOGRAPHY	3
HIST 447	RESEARCH SEMINAR	3
<b>Total Hours</b>		<b>39</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
HIST 111	HISTORY OF CIVILIZATION I	3
MATH 114	Quantitative Reasoning	3
Natural Science Option		3
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
HIST 112	HISTORY OF CIVILIZATION II	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>



Sophomore		
<b>Fall</b>		
HIST 221 or HIST 201	UNITED STATES HISTORY I or UNITED STATES HISTORY I	3
PS 135	AMERICAN GOVERNMENT	3
History Elective		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
PSY 201	GENERAL PSYCHOLOGY	3
HIST 222 or HIST 202	UNITED STATES HISTORY II or UNITED STATES HISTORY II	3
UNIV 200	CIVIC ENGAGEMENT	1
Social & Behavioral Science Option		3
Speech Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
Global History Elective		3
History Elective		3
History Elective		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
PHIL 301	INTRODUCTN TO PHILOSOPHY	3
Global History Elective		3
History Elective		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
HIST 344	HISTORIOGRAPHY	3
History Elective		3
History Elective		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
HIST 447	RESEARCH SEMINAR	3
History Elective		3
History Elective		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will contribute to historical knowledge through original and ethical research using primary and secondary sources.

- Students will analyze scholarly historical texts and synthesize multiple historical works.
- Students will create historical arguments and narratives.
- Students will communicate their historical research clearly, in oral and written form.

## History (B.S.)

History teachers open the world to their students, leading them to investigate not just what happened but why. They prepare students to explore our society's most difficult challenges and give them the skills to be informed citizens and successful adults. A BS in history will provide you with a strong historical foundation and the skills that you need to succeed as a teacher.

## Other Requirements

- Students must receive at least a "C" in any History course for it to be accepted towards degree requirements.
- Students must have at least a 2.0 GPA to be enrolled in HIST 344 HISTORIOGRAPHY or HIST 447 RESEARCH SEMINAR.
- Before graduation, students must take the Department Exit Exam.

## Major Requirements

Code	Title	Hours
HIST 111 & HIST 112	HISTORY OF CIVILIZATION I and HISTORY OF CIVILIZATION II	6
HIST 201 & HIST 202	UNITED STATES HISTORY I and UNITED STATES HISTORY II	6
HIST 325	HIST OF MISSISSIPPI	3
HIST 344	HISTORIOGRAPHY	3
HIST 260 or HIST 261	EARLY AFRICAN AMERICAN HIST	3
HIST 447	RESEARCH SEMINAR	3
HIST 483	Teaching History	3
EDCI 100	INTRODUCTION TO EDUCATION	3
SS 203	HISTORICAL&CULTURAL FOUNDATNS	3
COUN 315	Human Growth and Development	3
RE 310	TCHNG READING IN CONTENT AREAS	3
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
SS 301	INQRY-BASED INSTRN N GEOG & CE	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
SS 401	SOCIAL SCIENCE METHODS	3
SPED 311	EXCEP CHILD &YOUTH IN THE SCHO	3
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
<b>Total Hours</b>		<b>69</b>

**Note:** At the end of their sophomore year, students must apply for admission to Teacher Education. To be admitted, students must have a 2.75 GPA and an acceptable score on the PRAXIS Core, ACT, or SAT. Students must apply for Student Teaching in their senior year.

# Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104	COMPOSITION I	3
or ENG 103	or English Composition I with Co-requisite Support	
or ENG 111	or COMPOSITION & LITERATURE FOR L	
HIST 111	HISTORY OF CIVILIZATION I	3
MATH 114	Quantitative Reasoning	3
Natural Science Option		3
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
ENG 105	COMPOSITION II	3
or ENG 112	or COMPOSITION	
HIST 112	HISTORY OF CIVILIZATION II	3
EDCI 100	INTRODUCTION TO EDUCATION	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
HIST 201	UNITED STATES HISTORY I	3
ENG 205	WORLD LITERATURE I	3
SS 203	HISTORICAL&CULTURAL FOUNDATNS	3
GEOG 105	INTRO TO CULTURAL GEOGRAPHY	3
or GEOG 209	or WORLD REGIONAL GEOGRAPHY	
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
HIST 202	UNITED STATES HISTORY II	3
PS 135	AMERICAN GOVERNMENT	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
HIST 325	HIST OF MISSISSIPPI (Field Work-Fall Only)	3
HIST 344	HISTORIOGRAPHY	3
SS 301	INQRY-BASED INSTRN N GEOG & CE	3
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
History Elective (Non-US History)		3
History or Social Science Elective		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
HIST 447	RESEARCH SEMINAR	3
HIST 260	EARLY AFRICAN AMERICAN HIST	3
or HIST 261		
COUN 315	Human Growth and Development	3
RE 310	TCHNG READING IN CONTENT AREAS	3
History Elective (Non-US History-See Advisor)		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
ETEC 336	ADV MULTIMEDIA IN CLASSROOM	3
SS 401	SOCIAL SCIENCE METHODS	3

HIST 483 Teaching History	3
History or Social Science Electives	3
<b>Hours</b>	
	<b>15</b>
<b>Spring</b>	
EDCI 402	CLINICAL INTERNSHIP IN STD TCH
	12
<b>Hours</b>	
	<b>12</b>
<b>Total Hours</b>	
	<b>123</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will contribute to historical knowledge through original and ethical research using primary and secondary sources.
- Students will analyze scholarly historical texts and synthesize multiple historical works.
- Students will create historical arguments and narratives.
- Students will communicate their historical research clearly, in oral and written form.

## History Minors (History, Public History, and African Diaspora History)

The Department of History offers a minor in several areas. The areas and requirements are listed below.

Code	Title	Hours
<b>History Minor Requirements - 18 Credit Hours</b>		
HIST 344	HISTORIOGRAPHY	3
History Electives		15
<b>Total Hours</b>		<b>18</b>

Code	Title	Hours
<b>Public History Minor Requirements - 18 Credit Hours</b>		
HIST 344	HISTORIOGRAPHY	3
Public History Electives		
HIST 300	ORAL HISTORY METHODOLOGY	3
HIST 452	INTRO TO PUBLC & APPLD HIST ST	3
HIST 473	INTRODUCTION TO MUSEOLOGY	3
HIST 498	DIS & PRE OF LOC,ST,& NAT HIST	3
History Elective		3
<b>Total Hours</b>		<b>18</b>

Code	Title	Hours
<b>African Diaspora History Minor Requirement - 18 Credit Hours</b>		
HIST 344	HISTORIOGRAPHY	3
African Diaspora History Electives Select 5 (15 credits) courses		
HIST 309	HIST OF MODRN CIVIL RIGHTS MOV	3
HIST 325	HIST OF MISSISSIPPI	3
HIST 329	HIST OF THE CARIBBEAN	3

HIST 382	HISTORY OF THE SOUTH	3
HIST 260	EARLY AFRICAN AMERICAN HIST	3
HIST 261	MODERN AFRICAN AMERICAN HIST	3
HIST 385	HIST OF AFRICAN AMER. WOMAN I	3
HIST 386	HIST OF AFRICAN AMN WOMEN II	3
HIST 405	EARLY AFRICA	3
HIST 406	COLONIAL AFRICA	3
HIST 407	CONTEMPORARY AFRICA	3

## Department of Journalism and Media Studies

Dr. Elayne H. Anthony  
 Department Chair  
 elayne.h.anthony@jsums.edu  
 601-979-2151  
 Mississippi e-Center @ JSU  
 1230 Raymond Road  
 Jackson, Mississippi 39204

### Faculty of Department

L. Chang, J. Love, D. Spann, N. Towery

The Department of Journalism and Media Studies, currently located at the Mississippi e-Center, has in-house classrooms, computer labs, and editing labs. The Department manages JSU-TV, channel 14 on cable Comcast; WJSU-FM 88.5, the university's public radio station; the Blue & White Flash, the campus newspaper; and eXperience magazine, a publication produced by students two times per academic year.

### Mission Statement

The mission of the Department of Journalism and Media Studies is to provide academic excellence in the areas of media production, multimedia journalism, sports media, and integrated marketing communications. The Department provides students with theoretical and hands-on training needed to be successful in the field of media and communications, combined with the core principles of good, ethical journalism and digital communication.

### Objectives

The Department developed the following program objectives to assist students Receiving a degree in Journalism and Media Studies in developing the necessary knowledge and skills required in the current field of journalism. By the end of the program of study, students should be able to:

- Understand the basic historical and theoretical foundations of the field of journalism and media studies.
- Apply critical thinking skills.
- Conduct communications research that addresses problems in a global society.
- Exhibit professional skill levels in radio news writing and delivery; print and online news writing; and broadcast newsgathering and delivery.
- Report news clearly, accurately, truthfully, and fairly in appropriate journalistic forms and styles.
- Implement the use of technology to meet the demands of the media industry.

- Understanding media laws and the rights and responsibilities of media professionals in the field of journalism and media studies.
- Apply skills and knowledge gained in the practicum and internship courses to their careers as media professionals.

### Bachelor

- Journalism and Media Studies (B.S.) Integrated Marketing Communications (p. 114)
- Journalism and Media Studies (B.S.) Media Production Concentration (p. 116)
- Journalism and Media Studies (B.S.) Multimedia Journalism Concentration (p. 117)
- Journalism and Media Studies (B.S.) Sports Media Concentration (p. 119)

## Journalism and Media Studies (B.S.) Integrated Marketing Communications

The Department of Journalism and Media Studies is committed to excellence in teaching, bringing industry based applications to the classroom, and providing practical experiences that assist students with attaining employment in media. With the option of choosing one of the three concentrations offered within the department, students are exposed to theoretical and hands on experiences. Integrated Marketing Communications (IMC) incorporates practices of marketing, public relations, and advertising to teach students the strategies of corporate branding and marketing

### Degree Requirements

The Department of Journalism and Media Studies awards the Bachelor of Science degree in the following concentration areas, Media Production, Multimedia Journalism, Sports Media, and Integrated Marketing Communications. To be eligible to earn this degree, students must:

1. Complete the university's general education core requirements.
2. Complete the major concentration area requirements.
3. Complete a minor or take elective courses outside of the major.

#### Capstone Course

Senior Journalism and Media Studies Students must take the Capstone course to demonstrate their professional skill levels in writing, shooting, and editing, as well as their understanding of media laws and ethical practices of journalism.

### Major Requirements

**Fall 2021 Note: Courses in the major will be designated with MC for the fall 2021 semester, but beginning in the spring 2022 semester, those courses will appear under a new designation of JMS. The course numbers, descriptions, and content will not change.**

JMS 200 INTRO TO MASS COMMUNICATIONS, JMS 201 INTRODUCTION TO MEDIA WRITING and JMS 301 INTRODUCTION TO NEWS REPORTING are prerequisites for all concentration areas in Journalism and Media Studies. A grade of "C" or higher is required in all major courses.

Note: Majors in the Sports Media Concentration do not have to take JMS 301 INTRODUCTION TO NEWS REPORTING.

## Core Credit Hours Required for All Concentrations

All students who major in Journalism and Media Studies must complete the following major courses to be eligible for graduation.

Code	Title	Hours
JMS 200	INTRO TO MASS COMMUNICATIONS	3
JMS 201	INTRODUCTION TO MEDIA WRITING	3
JMS 301	INTRODUCTION TO NEWS REPORTING <sup>1</sup>	3
JMS 400	MEDIA LAW	3
JMS 401	RESCH METHDS IN MASS COM	3
JMS 405	MEDIA ETHICS	3
JMS 486	PRACTICUM IN MASS COMMUNICATIO	3
JMS 489	INTERNSHIP IN MASS COMMUNICATI	3
<b>Total Hours</b>		<b>24</b>

## Concentration

The Integrated Marketing Communications (IMC) concentration prepares students for careers in public relations, advertising, sales promotion, and marketing. This concentration area requires a total of 24 hours. The required hours for all students in this area are as follows:

Code	Title	Hours
JMS 330	INTRO TO INTEGRATED MKTG COMMU	3
JMS 336	ADVERTISING COPY/LAYOUT	3
JMS 423	ADVERTISNG MEDIA & SELCT	3
JMS 470	WRITING FOR PUBLIC RELTN	3
JMS 425	ADVERTISING & MARKETING	3
JMS 452	SALES PROMOTION MNGT	3
JMS 471	PUBLIC RELATIONS PRACTICE	3
JMS 473	ADVERTISING CAMPAIGNS	3
<b>Total Hours</b>		<b>24</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Natural Science Option		3
	<b>Hours</b>	<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
SPCH 215	TRAINING THE SPEAKING VOICE	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
	<b>Hours</b>	<b>15</b>

### Sophomore

<b>Fall</b>		
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
JMS 200	INTRO TO MASS COMMUNICATIONS	3
Humanities & Fine Arts Option		3
Pathway Option		3
	<b>Hours</b>	<b>15</b>

<b>Spring</b>		
JMS 201	INTRODUCTION TO MEDIA WRITING	3
JMS 330	INTRO TO INTEGRATED MKTG COMMU	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
UNIV 200	CIVIC ENGAGEMENT	1
Social & Behavioral Science Option		3
Pathway Option		3
	<b>Hours</b>	<b>16</b>

### Junior

<b>Fall</b>		
JMS 301	INTRODUCTION TO NEWS REPORTING	3
JMS 336	ADVERTISING COPY/LAYOUT	3
JMS 423	ADVERTISNG MEDIA & SELCT	3
JMS 470	WRITING FOR PUBLIC RELTN	3
MKT 351	MARKETING MANAGEMENT	3
	<b>Hours</b>	<b>15</b>

<b>Spring</b>		
FIN 320	BUSINESS FINANCE	3
JMS 425	ADVERTISING & MARKETING	3
JMS 471	PUBLIC RELATIONS PRACTICE	3
JMS 486	PRACTICUM IN MASS COMMUNICATIO	3
MKT 432	ADVERTISING	3
	<b>Hours</b>	<b>15</b>

### Senior

<b>Fall</b>		
JMS 310	MEDIA DESIGN AND PRODUCTION I	3
JMS 401	RESCH METHDS IN MASS COM	3
JMS 400	MEDIA LAW	3
JMS 489	INTERNSHIP IN MASS COMMUNICATI	3
MKT 450	PERSONAL SELLING	3
	<b>Hours</b>	<b>15</b>

<b>Spring</b>		
JMS 405	MEDIA ETHICS	3
JMS 473	ADVERTISING CAMPAIGNS	3
JMS 499	CAPSTONE OR SENIOR SEMINAR	3
MNGT 458 or MNGT 462	STRATEGIC MANAGEMENT or INTERNATNL BUS AND ENTREPNSHIP	3
	<b>Hours</b>	<b>12</b>
	<b>Total Hours</b>	<b>120</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

A capstone course is utilized to assess student learning within their last semester of the program. Individual student outcome measures are the ability to:

- demonstrate ways to produce broadcast quality standard VO, VOSOT, packages, and whips;
- produce broadcast quality standard documentaries;
- demonstrate an understanding of media programming and producing a broadcast quality standard newscast.
- publish professional quality journalistic news articles;
- adhere to journalistic standards of timeliness and professionalism;
- produce professional quality journalist photographs and digital news stories;
- produce client satisfactory advertising and public relation campaigns;
- produce strategic and aesthetically pleasing advertising layouts and materials; and
- perform communication audits.

## Journalism and Media Studies (B.S.) Media Production Concentration

The Department of Journalism and Media Studies is committed to excellence in teaching, bringing industry-based applications to the classroom, and providing practical experiences that assist students with attaining employment in media. With the option of choosing one of the three concentrations offered within the department, students are exposed to theoretical and hands-on experiences. Media Production is the process of producing visual media creations, e.g., video editing and production, multimedia authoring, and the creation of media artifacts, for television delivery. Career options in media production include print and broadcast opportunities, such as photography, videography, reporters, writers, anchors, audiovisual technicians, studio engineers, and producers.

### Degree Requirements

The Department of Journalism and Media Studies awards the Bachelor of Science degree in the following concentration areas, Media Production, Multimedia Journalism, Sports Media, and Integrated Marketing Communications. To be eligible to earn this degree, students must:

1. Complete the university's general education core requirements.
2. Complete the major concentration area requirements.
3. Complete a minor or take elective courses outside of the major.

#### Capstone Course

Senior Journalism and Media Studies Students must take the Capstone course to demonstrate their professional skill levels writing, shooting, and editing, as well as their understanding of media laws and ethical practices of journalism.

### Major Requirements in Journalism and Media Studies

JMS 200 INTRO TO MASS COMMUNICATIONS, JMS 201 INTRODUCTION TO MEDIA WRITING, and JMS 301 INTRODUCTION TO NEWS REPORTING are prerequisites for all concentration areas in Journalism and Media Studies. A grade of "C" or higher is required in all major courses.

#### Core Credit Hours Required For All Concentrations

All students who major in Journalism and Media Studies must complete the following major courses to be eligible for graduation.

Code	Title	Hours
JMS 200	INTRO TO MASS COMMUNICATIONS	3
JMS 201	INTRODUCTION TO MEDIA WRITING	3
JMS 301	INTRODUCTION TO NEWS REPORTING <sup>1</sup>	3
JMS 400	MEDIA LAW	3
JMS 401	RESCH METHDS IN MASS COM	3
JMS 405	MEDIA ETHICS	3
JMS 486	PRACTICUM IN MASS COMMUNICATIO	3
JMS 489	INTERNSHIP IN MASS COMMUNICATI	3
<b>Total Hours</b>		<b>24</b>

### Concentration

The Media Production concentration is designed to provide undergraduate students with professional experience and training for careers in electronic media. Students will be taught skills in shooting, editing, and news reporting. This concentration area requires a total of 21 hours. The required hours for all students in this area are as follows:

Code	Title	Hours
JMS 303	RADIO-TV NEWSWRITING	3
JMS 307	PHOTOJOURNALISM	3
JMS 310	MEDIA DESIGN AND PRODUCTION I	3
JMS 315	DIGITAL EDITING	3
JMS 323	MEDIA DESIGN AND PRODUCTION II	3
JMS 426	BROADCAST DOCUMENTARY	3
JMS 440	MEDIA PROGRAMMING	3
Electives or Minor		35-36
<b>Total Hours</b>		<b>56-57</b>

### Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Minor or General Elective		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
JMS 200	INTRO TO MASS COMMUNICATIONS	3
SPCH 215	TRAINING THE SPEAKING VOICE	3
Minor or General Elective		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
JMS 201	INTRODUCTION TO MEDIA WRITING	3
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Minor or General Elective		3
Minor or General Elective		3
Pathway		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
JMS 301	INTRODUCTION TO NEWS REPORTING	3
JMS 307	PHOTOJOURNALISM	3
JMS 310	MEDIA DESIGN AND PRODUCTION I	3
Minor or General Elective		3
Minor or General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
JMS 315	DIGITAL EDITING	3
JMS 323	MEDIA DESIGN AND PRODUCTION II	3
JMS 400	MEDIA LAW	3
JMS 426	BROADCAST DOCUMENTARY	3
JMS 486	PRACTICUM IN MASS COMMUNICATIO	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
JMS 401	RESCH METHDS IN MASS COM	3
JMS 489	INTERNSHIP IN MASS COMMUNICATI	3
JMS Elective		3
Minor or General Elective		3
Minor or General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
JMS 405	MEDIA ETHICS	3
JMS 440	MEDIA PROGRAMMING	3
JMS 499	CAPSTONE OR SENIOR SEMINAR	3
Minor or General Elective		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

A capstone course is utilized to assess student learning within their last semester of the program. Individual student outcome measures are the ability to:

- demonstrate ways to produce broadcast quality standard VO, VOSOT, packages, and whips;
- produce broadcast quality standard documentaries;
- demonstrate an understanding of media programming and producing a broadcast quality standard newscast.
- publish professional quality journalistic news articles;
- adhere to journalistic standards of timeliness and professionalism;

- produce professional quality journalist photographs and digital news stories;
- produce client satisfactory advertising and public relation campaigns;
- produce strategic and aesthetically pleasing advertising layouts and materials; and
- perform communication audits.

## Journalism and Media Studies (B.S.) Multimedia Journalism Concentration

### Degree Requirements

The Department of Journalism and Media Studies awards the Bachelor of Science degree in the following concentration areas, Media Production, Multimedia Journalism, Sports Media, and Integrated Marketing Communications. To be eligible to earn this degree, students must:

1. Complete the university's general education core requirements.
2. Complete the major concentration area requirements.
3. Complete a minor or take elective courses outside of the major.

Note: Students who have met the foreign language requirement in high school will not need to take elementary foreign language courses (MFL I and MFL II). However, they must take an additional 6 credit hours of electives to account for those credit hours needed for graduation.

### Capstone Course

Senior Journalism and Media Studies Students must take the Capstone course to demonstrate their professional skill levels writing, shooting, and editing, as well as their understanding of media laws and ethical practices of journalism.

### Major Requirements

**Fall 2021 Note: Courses in the major will be designated with MC for the fall 2021 semester, but beginning in the spring 2022 semester, those courses will appear under a new designation of JMS. The course numbers, descriptions, and content will not change.**

JMS 200 INTRO TO MASS COMMUNICATIONS , JMS 201 INTRODUCTION TO MEDIA WRITING and JMS 301 INTRODUCTION TO NEWS REPORTING are prerequisites for all concentration areas in Journalism and Media Studies. A grade of "C" or higher is required in all major courses.

### Core Credit Hours Required for All Concentrations

All students who major in Journalism and Media Studies must complete the following major courses to be eligible for graduation.

Code	Title	Hours
JMS 200	INTRO TO MASS COMMUNICATIONS	3
JMS 201	INTRODUCTION TO MEDIA WRITING	3
JMS 301	INTRODUCTION TO NEWS REPORTING <sup>1</sup>	3
JMS 400	MEDIA LAW	3
JMS 401	RESCH METHDS IN MASS COM	3
JMS 405	MEDIA ETHICS	3
JMS 486	PRACTICUM IN MASS COMMUNICATIO	3

JMS 489	INTERNSHIP IN MASS COMMUNICATI	3
<b>Total Hours</b>		<b>24</b>

<sup>1</sup> Majors in the Sports Media Concentration do not have to take JMS 301 INTRODUCTION TO NEWS REPORTING.

## Concentration

The Multimedia Journalism concentration is designed to introduce students to the basic skills needed in an increasingly multimedia platform news-industry. Students will be taught skills in print media, broadcast, and online journalism. This concentration area requires a total of 21 hours. The required hours for all students in this area are as follows:

Code	Title	Hours
JMS 303	RADIO-TV NEWSWRITING	3
JMS 307	PHOTOJOURNALISM	3
JMS 310	MEDIA DESIGN AND PRODUCTION I	3
JMS 320	ONLINE JOURNALISM	3
JMS 409	MULTIMEDIA REPORTING	3
JMS 404	FEATURE WRITING	3
JMS 426	BROADCAST DOCUMENTARY	3
Electives or Minor		35-36
<b>Total Hours</b>		<b>56-57</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
JMS 200	INTRO TO MASS COMMUNICATIONS	3
SPCH 215	TRAINING THE SPEAKING VOICE	3
Humanities & Fine Arts Option		3
Minor or General Elective		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
JMS 201	INTRODUCTION TO MEDIA WRITING	3
UNIV 200	CIVIC ENGAGEMENT	1
Minor or General Elective		3
Minor or General Elective		3

Pathway Option		3
<b>Hours</b>		<b>13</b>
<b>Junior</b>		
<b>Fall</b>		
JMS 301	INTRODUCTION TO NEWS REPORTING	3
JMS 310	MEDIA DESIGN AND PRODUCTION I	3
Philosophy Elective		3
Minor or General Elective		3
Minor or General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
JMS 303	RADIO-TV NEWSWRITING	3
JMS 307	PHOTOJOURNALISM	3
JMS 320	ONLINE JOURNALISM	3
JMS 486	PRACTICUM IN MASS COMMUNICATIO	3
Minor or General Elective		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
JMS 315	DIGITAL EDITING	3
JMS 400	MEDIA LAW	3
JMS 401	RESCH METHDS IN MASS COM	3
JMS 489	INTERNSHIP IN MASS COMMUNICATI	3
JMS Elective 300-400 Level		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
JMS 404 or JMS 426	FEATURE WRITING or BROADCAST DOCUMENTARY	3
JMS 405	MEDIA ETHICS	3
JMS 409	MULTIMEDIA REPORTING	3
JMS 499	CAPSTONE OR SENIOR SEMINAR	3
JMS Elective 300-400 Level		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

A capstone course is utilized to assess student learning within their last semester of the program. Individual student outcome measures are the ability to:

- demonstrate ways to produce broadcast quality standard VO, VOSOT, packages, and whips;
- produce broadcast quality standard documentaries;
- demonstrate an understanding of media programming and producing a broadcast quality standard newscast.
- publish professional quality journalistic news articles;
- adhere to journalistic standards of timeliness and professionalism;
- produce professional quality journalist photographs and digital news stories;
- produce client satisfactory advertising and public relation campaigns;

- produce strategic and aesthetically pleasing advertising layouts and materials; and
- perform communication audits.

## Journalism and Media Studies (B.S.) Sports Media Concentration

The Department of Journalism and Media Studies is committed to excellence in teaching, bringing industry-based applications to the classroom, and providing practical experiences that assist students with attaining employment in media. With the option of choosing one of the three concentrations offered within the department, students are exposed to theoretical and hands-on experiences. The Sports Media concentration teaches students the intricacies of covering sporting events and writing for sports news. Career options for sports media graduates include print and broadcast opportunities in the sports news and entertainment industries, such as photography, videography, reporters, writers, anchors, commenters, and producers.

### Degree Requirements

The Department of Journalism and Media Studies awards the Bachelor of Science degree in the following concentration areas, Media Production, Multimedia Journalism, Sports Media, and Integrated Marketing Communications. To be eligible to earn this degree, students must:

1. Complete the university's general education core requirements.
2. Complete the major concentration area requirements.
3. Complete a minor or take elective courses outside of the major.

#### Capstone Source

Senior Journalism and Media Studies Students must take the Capstone course to demonstrate their professional skill levels writing, shooting, and editing, as well as their understanding of media laws and ethical practices of journalism.

### Major Requirements

JMS 200 INTRO TO MASS COMMUNICATIONS, JMS 201 INTRODUCTION TO MEDIA WRITING, and JMS 301 INTRODUCTION TO NEWS REPORTING are prerequisites for all concentration areas in Journalism and Media Studies. A grade of "C" or higher is required in all major courses.

Note: Majors in the Sports Media Concentration do not have to take JMS 200 INTRO TO MASS COMMUNICATIONS.

## Required Core Credit Hours for All Concentrations

All students who major in Journalism and Media Studies must complete the following major courses to be eligible for graduation.

Code	Title	Hours
JMS 200	INTRO TO MASS COMMUNICATIONS	3
JMS 201	INTRODUCTION TO MEDIA WRITING	3
JMS 400	MEDIA LAW	3
JMS 401	RESCH METHDS IN MASS COM	3
JMS 405	MEDIA ETHICS	3
JMS 486	PRACTICUM IN MASS COMMUNICATIO	3

JMS 489	INTERNSHIP IN MASS COMMUNICATI	3
<b>Total Hours</b>		<b>21</b>

### Concentration

The Sports Media concentration is designed to introduce students to the skills needed in the rapidly growing industry of sports journalism. Students will learn sportscasting, sports writing and reporting, and electronic field production. This concentration area requires a total of 30 hours. The required hours for all students in this area are as follows:

Code	Title	Hours
JMS 205	Cross Platform Sports Wri & Re	3
JMS 210	MICROPHONE TECHNIQUES	3
JMS 307	PHOTOJOURNALISM	3
JMS 310	MEDIA DESIGN AND PRODUCTION I	3
JMS 335	PRIN OF ADVERTISING AND PUB RE	3
JMS 316	ELECTRONIC FIELD PRODUCTION	3
JMS 351	SPORTS, MEDIA AND SOCIETY	3
JMS 450	SOCIAL MEDIA AND MASS COMM	3
JMS 426	BROADCAST DOCUMENTARY	3
MKT 351	MARKETING MANAGEMENT	3
Electives or Minor		35-36
<b>Total Hours</b>		<b>65-66</b>

### Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Minor or General Elective		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
JMS 200	INTRO TO MASS COMMUNICATIONS	3
SPCH 215	TRAINING THE SPEAKING VOICE	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
JMS 205	Cross Platform Sports Wri & Re	3
JMS 210	MICROPHONE TECHNIQUES	3
UNIV 200	CIVIC ENGAGEMENT	1
Minor or General Elective		3



Minor or General Elective		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
JMS 307	PHOTOJOURNALISM	3
JMS 310	MEDIA DESIGN AND PRODUCTION I	3
JMS 351	SPORTS, MEDIA AND SOCIETY	3
Philosophy Elective		3
Minor or General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
JMS 316	ELECTRONIC FIELD PRODUCTION	3
JMS 335	PRIN OF ADVERTISING AND PUB RE	3
JMS 486	PRACTICUM IN MASS COMMUNICATIO	3
MKT 351	MARKETING MANAGEMENT	3
Minor or General Elective		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
JMS 250	Media Literacy	3
JMS 400	MEDIA LAW	3
JMS 401	RESCH METHDS IN MASS COM	3
JMS 426	BROADCAST DOCUMENTARY	3
JMS 489	INTERNSHIP IN MASS COMMUNICATI	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
JMS 405	MEDIA ETHICS	3
JMS 499	CAPSTONE OR SENIOR SEMINAR	3
Minor or General Elective		3
Minor or General Elective		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

**Notes:**

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- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

A capstone course is utilized to assess student learning within their last semester of the program. Individual student outcome measures are the ability to:

- demonstrate ways to produce broadcast quality standard VO, VOSOT, packages, and whips;
- produce broadcast quality standard documentaries;
- demonstrate an understanding of media programming and producing a broadcast quality standard newscast.
- publish professional quality journalistic news articles;
- adhere to journalistic standards of timeliness and professionalism;
- produce professional quality journalist photographs and digital news stories;
- produce client satisfactory advertising and public relation campaigns;

- produce strategic and aesthetically pleasing advertising layouts and materials; and
- perform communication audits.

## Department of Military Science

Lieutenant Colonel Rodgers Brown  
 Department Chair, Department of Military Science  
 Email: [rodgers.brown@jsums.edu](mailto:rodgers.brown@jsums.edu)  
 Phone: 601-979-8603

## Faculty of Department

MAJ Melton, CPT Mann

## Introduction/Mission

Army ROTC is a college elective that teaches you the skills needed for a successful career. You'll combine classroom time with hands-on-experience and learn leadership and management skills. Upon graduation, you are commissioned as an Army officer to serve on active duty or with the Army Reserves or National Guard. Whatever you decide, the experience you will gain in Army ROTC will give you the confidence you need to be successful in college and beyond. Whether you choose to pursue a career in the Army or in the corporate world, Army ROTC is unlike any other college course you can take.

## Objectives

Commission as a Second Lieutenant in the United States Army in either Active, Reserve or National Guard components. ROTC produces a leader of character possessing a professional identity; thrives in operationally ambiguous environments; is a moral exemplar and is prepared to be an Army leader, skilled critical thinker, problem solver, and team builder; skilled oral and written communicator committed to the Army ethic and profession; who has advanced interpersonal skill, knowledge of training management, and understands Army Doctrine; is culturally aware and displays characteristics of a lifelong learner.

The objectives of the program are as follows:

1. To produce the future officer leadership of the U.S. Army.
2. To provide an understanding of how the U.S. Army Reserve and Army National Guard fit into the National Defense structure.
3. To develop the leadership and managerial potential of students to facilitate their future performance as officers.
4. To develop the students' abilities to think creatively and speak and write effectively.
5. To encourage the development of mental and moral standards that are essential to military service.

The Program of instruction includes developing self-discipline, physical stamina, and other qualities that are cornerstones of leadership excellence.

- Reserve Officer Training Corps (ROTC) (p. 122)

## Course Descriptions

### MS 101 FUND OF LDRSH & MGNT I (1 Hour)

Co-requisite: MS 103. Introduction to officership with emphasis on military customs and traditions, time management, stress management, and physical fitness. Introduction to principles of leadership with emphasis on character and competence, values and ethics, and values of the U.S. Army.

### MS 102 FUND OF LDRSH & MGNT II (1 Hour)

Co-requisite: MS 104. Builds upon leadership principles emphasizing oral and written communications, the problem-solving process, goal setting, active listening, assertiveness skills, counseling methods and nutrition. Builds upon principles of officership with emphasis on life the U.S. Army.

### MS 103 LEADERSHIP LABORATORY (1 Hour)

Leadership Lab.

### MS 104 LEADERSHIP LABORATORY (1 Hour)

Leadership Lab.

### MS 201 INDIVIDUAL LEADERSHIP STUDIES (2-3 Hours)

Co-requisite: MS 203. Building on leadership principles with emphasis on communication, personal development, physical well-being, team building, problem solving, and reasoning. Introduction to the ROTC Distance Learning Enhancement Skills Training Program with special emphasis on math, English, and reading skills. COMPRESSION COURSE (3): Co-requisite: MS 203. May substitute for MS 101 and 201 by compressing them together. Course is designed for sophomore student who has not had previous military science classes, basic training, or high school JROTC.

### MS 202 LEADERSHIP AND TEAMWORK (2 Hours)

Co-requisite: MS 204. Building of leadership principles with emphasis on communication, personal development, physical well-being, team building, problem solving, and reasoning. Continued development of oral and written communication skills. COMPRESS COURSE (3 hrs): Co-requisite: MS 204. May substitute for MS 102 and 202 by compressing them together. Course is designed for sophomore student who has not had previous military science classes, basic training, or high school JROTC.

### MS 203 LEADERSHIP LABORATORY (1 Hour)

Leadership Lab.

### MS 204 LEADERSHIP LABORATORY (1 Hour)

Leadership Lab.

### MS 300 LEADERSHIP TRAINING CAMP (2 Hours)

Prerequisite: Students must have minimum of 2 years of college remaining.

ROTC Basic Camp is a six-week summer training and evaluation class conducted on an active Army base. Students learn fundamental military skills and develop the ability to lead others. Students earn approximately \$761 while learning fundamental leadership skills with hundreds of other college students from universities throughout the United States and Puerto Rico. This is a substitute course for MS 100 and 200 level courses. Qualifies students for MS 300 level courses.

### MS 301 LEADERSHIP AND PROBLEM SOLVING (3 Hours)

Introduction to the Leadership Development Program and Self Assessment. Builds upon leadership principles with emphasis on physical fitness, wellness, nutrition, and training a team. Develops Officership focusing on tactics, the principles of war, and offensive and defensive operations utilizing tactical analysis case studies. Develops Officership with emphasis on the problem solving process utilizing the Troop Leading procedures, Officer duties, and the role and organization of the Army values, spiritual needs, consideration of others, and ethical decision making. Qualified Students may receive up to \$3,600 stipend annually. Course includes mandatory field training exercises.

### MS 302 LEADERSHIP AND ETHICS (3 Hours)

A continuation of MS 301, where Students study, practice, and apply the fundamentals of Army leadership, Officership, Army values and ethics, personal development, and small unit tactics at the patrol/platoon level. At the conclusion of this course, students will be capable of planning, coordinating, navigating, motivating and leading a 24-person patrol in the execution of a tactical mission during a classroom practical exercise, a leadership lab, or during a situational training exercise (STX) in a field environment. Course includes instruction in platoon operations, stability and support operations, and garrison orders. Participation in leadership lab is required.

### MS 303 LEADERSHIP LABORATORY (1 Hour)

Leadership Lab.

### MS 304 LEADERSHIP LABORATORY (1 Hour)

Leadership Lab.

### MS 400 LDRSHIP DVLPMNT & ASSESMT CAMP (3 Hours)

LDAC is a six-week summer training and evaluations class conducted on an Active Army base. Students must attend LDAC during the summer upon completion of MS 302. Students are placed in leadership positions and evaluated on their ability to plan, direct, and execute tasks while operating in challenging and stressful environments. Student will earn approximately \$800 for attendance at LDAC.

### MS 401 ADAPTIVE LEADERSHIP (3 Hours)

Prepares student for commissioning as a Second Lieutenant in the United States Army by focusing on career choices, life in the Army, training the force, mission-essential task list development, training execution and assessment, active listening and feedback, personal and developmental counseling, stress management, social exchange theory, expectancy theory, organizational systems and culture and organizational change culminating in a leadership simulation practical exercise. Qualified students may receive up to \$4,000 stipend annually. Course includes mandatory field training exercises.

### MS 402 OFFICERSHIP (3 Hours)

Comprehensive senior leadership project that focuses on values and ethics emphasizing assessment, establishment, and improvement of the ethical climate, the foundation, regulations, and codes of military law, and the law of war, the tactical, operational, and strategic levels of war, military operations other than war, personnel administration, maintenance and supply management financial planning, counseling practicum, leadership lessons and developing a Leadership Vision. Qualified students may receive up to \$4,000 stipend annually. Course includes mandatory field training exercises.

### MS 403 LEADERSHIP LABORATORY (1 Hour)

Leadership Lab.

### MS 404 LEADERSHIP LABORATORY (1 Hour)

Leadership Lab.

**MS 450 IND STUDY (THE ARMY PROFESSION (3 Hours))**

Comprehensive senior leadership project that focuses on the Army Profession and the Army Ethic. It will expand the discussion on the Army Profession's dual character as a military department of the United States Government and, more importantly, a military profession; identify two mutually supportive communities of practice of the profession: the Profession of Arms (Regular Army, Army National Guard, and Army Reserve forces) and the Army Civilian Corps; and introduce the five essential characteristics that legitimize the Army as a profession: trust, military expertise, honorable service, esprit de corps, and stewardship of the profession. The course will define membership and certification of Army professionals in competence, character, and commitment. It will describe Army culture, describe the Army Ethic, and lay the groundwork for developing the moral identity of the Army Profession and its professionals. Course includes mandatory field training exercises.

## Reserve Officer Training Corps (ROTC)

The ROTC Program is divided into a Basic Course of instruction (Freshman and Sophomore classes) and an Advanced Course of instruction (Junior and Senior classes). In addition to the course of instruction, students are required to attend a Leadership Laboratory. Mathematics, English, and Reading courses are offered through the ROTC Enhancement Skills Training Program. Students enrolled in the junior and senior ROTC classes are also required to enroll in and complete one course in History of the Military (HIST 308 AMERICAN MILITARY HISTORY) prior to commissioning. Three (3) semester hours are earned for each course.

All students complete an internship during the summer between their junior and senior years. Some overseas internships are available. Off campus summer training in parachuting, helicopter operations, engineering and outdoor marksmanship are available to all ROTC students.

### Admission Criteria

- Students must meet Jackson State University's minimum academic standards.
- Students must be contracted to the United States Army to take MS 301 LEADERSHIP AND PROBLEM SOLVING - MS 402 OFFICERSHIP.

### Other Requirements/Offerings

Students must pass an Army Physical Fitness Test, complete a Department of Defense Medical Evaluation Board, maintain a cumulative GPA of 2.5, complete an interview with the Professor of Military Science, be an active participant in the ROTC program and complete an academic plan worksheet.

### Major Requirements

Code	Title	Hours
<b>Fall</b>		
MS 101	FUND OF LDRSHP & MGNT I	1
MS 103	LEADERSHIP LABORATORY	1
MS 201	INDIVIDUAL LEADERSHIP STUDIES	2
MS 203	LEADERSHIP LABORATORY	1
MS 301	LEADERSHIP AND PROBLEM SOLVING	3

MS 303	LEADERSHIP LABORATORY	1
MS 401	ADAPTIVE LEADERSHIP	3
MS 403	LEADERSHIP LABORATORY	1
<b>Spring</b>		
MS 102	FUND OF LDRSHP & MGNT II	1
MS 104	LEADERSHIP LABORATORY	1
MS 202	LEADERSHIP AND TEAMWORK	2
MS 204	LEADERSHIP LABORATORY	1
MS 302	LEADERSHIP AND ETHICS	3
MS 304	LEADERSHIP LABORATORY	1
MS 402	OFFICERSHIP	3
MS 404	LEADERSHIP LABORATORY	1
<b>Summer</b>		
MS 300	LEADERSHIP TRAINING CAMP	2
MS 400	LDRSHIP DVLPMNT & ASSESMT CAMP	3
<b>Total Hours</b>		<b>31</b>

### Minor Requirements

Code	Title	Hours
MS 301	LEADERSHIP AND PROBLEM SOLVING	3
MS 302	LEADERSHIP AND ETHICS	3
MS 400	LDRSHIP DVLPMNT & ASSESMT CAMP	3
MS 401	ADAPTIVE LEADERSHIP	3
MS 402	OFFICERSHIP	3
<b>Total Hours</b>		<b>15</b>

## Department of Music

### Department of Music

Dr. Lisa Beckley-Roberts  
 Department Chair  
 lisa.m.beckley-roberts@jsums.edu  
 601-979-2142

### Faculty of Department

L. Beckley-Roberts, C. Craig, A. Duckett, I. Elezovic, L. Ellerbe, H. Cecil, D. Harris, L. Hollinger, R. Jackson, K. Johnson, P. Lewis-Hale, R. Little, D. Ware, D. Harris, K. Johnson, S. Leopard, D. Mahloch, J. Sherrod, L. Garner

### Introduction/Mission

The Department of Music is committed to providing the highest quality of educational opportunities in music education, performance, and technology by empowering a diverse population of students to develop the technologically advanced skills required to assume leadership roles in music education, music industry, and related areas in the global market. The Department of Music offers courses and performance opportunities that broaden music education in the liberal arts and provide artistic enrichment for the University, Community, State, and Nation while facilitating opportunities for artistic activism which begins to address the socio-cultural inequalities and challenges of the world.

The Department of Music offers the following degree programs and minor

- Bachelor of Music in Performance (BM)-Vocal, Instrumental, Keyboard, or Jazz Emphasis

- Bachelor of Music in Performance (BM)-Music Technology
- Bachelor of Music Education (BME)-Vocal, Instrumental, Keyboard, or Jazz Emphasis
- Minor in Music

To this end, and in alignment with the mission of the University as a whole, the department is committed to challenging students to explore new ideas and reach their highest potential through engaging course work, research, and seminars. Additionally, the Department of Music resolves to:

- Provide competitive, accredited, undergraduate and graduate degree programs and curricula which focus on advancing education, research, performance, and technology.
- Engage students of all majors in opportunities to develop their knowledge, and ability in all aspects of music by participating in concerts, performances, workshops, master classes, and guest artist residencies.
- Inspire students and faculty to participate globally in culturally enriching activities by encouraging engagement with Western classical, world, and modern musics and through involvement in student exchange and study abroad programs, competitions, international music festivals, and conferences.
- Encourage students to increase knowledge and mastery of the means by which to communicate (verbally, in written form, and through artistic interpretation) the value and vastness of knowledge expressed in music and art, historically and in contemporary times.
- To encourage critical thinking, listening and analytical skills which are reinforced and articulated through college-level rhetorical writing, speaking, and performance of and about Western and world musics.

## Objectives

The primary objectives of the Music unit focus on the means of assuring the highest level of achievement. Through measured student learning outcomes, music majors and non-majors are provided opportunities for greater musical understanding and competency in all music subject areas.

## Accreditation

Jackson State University has been an accredited member of the National Association of Schools of Music (NASM) since 1977. National Association of Schools of Music, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190-5248.

## Admission Criteria

All students must have basic proficiency on an applied instrument as demonstrated in auditions with an ensemble director and/or applied instructor.

## Placement Exams

- **Audition:** Auditions and basic musicianship tests are administered to prospective students prior to acceptance. Technology students may be required to submit digital projects upon admission.
- **Theory Placement Examination:** All music majors must take the theory placement examination.

## Other Requirements/Offerings

**Performance:** One (1) Student Recital Performance is required each semester for all Bachelor of Music Education students, except the first semester of enrollment. Two (2) Student Recital Performances are required for all Bachelor of Music in Performance students, except the first semester.

**Jury:** Examination required for all majors at the end of each semester of applied study.

**Piano Proficiency Examination:** Required at the conclusion of study in Applied Secondary Piano – (MUS 215 APPLIED PIANO) for all music and music education majors.

**Junior and Senior Recital:** Required of all Bachelor of Music Education and Bachelor of Music in Performance majors.

**Students who major in Music Education must be admitted to the Teacher Education Program.** Students who major in Music Education must meet all requirements for Student Teaching.

- Requirements for Admission to Teacher Education can be found in the Office of Professional and Field - Based Experiences section of the Undergraduate catalog.
- Admission to the Teacher Education Program does not guarantee admission to student teaching.
- A student must submit the required minimum scores on teacher licensure tests: Praxis II–Principals of Learning and Teaching–and Praxis III–Specialty Area Test.
- Department of Music (p. 122)
- Music Performance (B.M.) Vocal Emphasis (p. 137)
- Music Education (B.M.E.) Instrumental Emphasis (p. 123)
- Music Education (B.M.E.) Jazz Emphasis (p. 125)
- Music Education (B.M.E.) Piano Emphasis (p. 126)
- Music Education (B.M.E.) Vocal Emphasis (p. 128)
- Music Performance (B.M.) Instrumental Emphasis (p. 129)
- Music Performance (B.M.) Jazz Studies Emphasis Instrumental or Vocal (p. 131)
- Music Performance (B.M.) Keyboard Emphasis (p. 134)
- Music Performance (B.M.) Music Technology (p. 135)

## Music Education (B.M.E.) Instrumental Emphasis

### Major Requirements

Code	Title	Hours
MUS 101-472	Performance Ensemble	3.5
MUS 111-212	MUSic Theory I-IV	8
MUS 311	FORM & ANALYSIS	3
MUSY 111-211	Sight Singing and Ear Training	3
MUSD / L 114-215	Applied secondary Piano	4
MUS 200	Recital Hour (8 semesters)	0
MUS 114-414	Applied Instrument	14
MUS 117	VOICE CLASS	1
MUS 221	STRING CLASS	1

MUS 321 & MUS 322	MUSIC HISTORY and MUSIC HISTORY	6
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUS 338	WOODWIND CLASS	1
MUS 302	MUSIC IN ELEMENTARY SCHOOL	3
MUS 303	MUSIC IN THE SECONDARY SCHOOL	3
MUS 305	Music Classroom Management and Effective Learning Environments	3
MUS 337	BRASSWIND CLASS	1
MUS 339	PERCUSSION CLASS	1
MUS 333	CONDUCTING	2
MUS 411	VOCAL ARRANGING	2
MUSM 421	INSTRUMENTAL METHODS&MATERIALS	3

**Total Hours 65.5**

**Course Title Hours**

**Freshman**

**Fall**

UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111 or MATH 114	COLLEGE ALGEBRA or Quantitative Reasoning	3
MUS 111	MUSIC THEORY	2
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MU(XX) 114 Applied Major Instrument		2
MUSD 114 or MUSL 114	APPLIED SECONDARY PIANO or APPLIED SECONDARY VOICE	1
MUS 200	RECITAL HOUR	0
EDCI 100	INTRODUCTION TO EDUCATION	3
MU(X) 101 or 171 Performance Ensemble Option		0.5

**Hours 17.5**

**Spring**

ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MUS 112	MUSIC THEORY	2
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MU(XX) 115 Applied Major Instrument		2
MUSD 115 or MUSL 115	APPLIED SECONDARY PIANO or APPLIED SECONDARY VOICE	1
MUS 117	VOICE CLASS	1
MUS 200	RECITAL HOUR	0
MU(X) 102 or 172		0.5
Natural Science Option		3
Pathway Option		3

**Hours 16.5**

**Sophomore**

**Fall**

MUS 200	RECITAL HOUR	0
MUS 211	MUSIC THEORY	2
MUS 221	STRING CLASS	1
MUS 321	MUSIC HISTORY	3
MUS 337	BRASSWIND CLASS	1
MUSD 214 or MUSV 214	APPLIED SECONDARY PIANO or APPLIED VOICE	1
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MU(XX) 214 Applied Major Instrument		2
MU(X) 121 or 271		0.5
Social & Behavioral Science Option		3

Pathway Option 3

**Hours 17.5**

**Spring**

MUS 200	RECITAL HOUR	0
MUS 212	MUSIC THEORY	2
MUS 338	WOODWIND CLASS	1
MUS 322	MUSIC HISTORY	3
MUSD 215 or MUSL 215	APPLIED SECONDARY PIANO or APPLIED SECONDARY VOICE	1
MU(XX) 215 Applied Major		2
MU(X) 122 or 272 Performance Ensemble Option		0.5
UNIV 200	CIVIC ENGAGEMENT	1
Natural Science Option		3
Pathway Option		3

**Hours 16.5**

**Junior**

**Fall**

MUS 200	RECITAL HOUR	0
MUS 302	MUSIC IN ELEMENTARY SCHOOL	3
MUS 311	FORM & ANALYSIS	3
MUS 314 Applied Major Instrument or Voice		2
MU(X) 131 or 371		0.5
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
RE 310	TCHNG READING IN CONTENT AREAS	3

**Hours 17.5**

**Spring**

MUS 200	RECITAL HOUR	0
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUS 305	Music Classroom Management and Effective Learning Environments	3
MU(XX) 315 Applied Major Instrument - Junior Recital		2
MUS 333	CONDUCTING	2
MUS 339	PERCUSSION CLASS	1
MUS 303	MUSIC IN THE SECONDARY SCHOOL	3
MU(X) 132 or 372 Performance Ensemble Option		0.5

**Hours 14.5**

**Senior**

**Fall**

MUS 200	RECITAL HOUR	0
MUS 411	VOCAL ARRANGING	2
MU(XX) 414 Applied Major Instrument - Senior Recital		2
MUS 421 or MUSQ 421 or MUSM 421	PIANO METHODS & MATERIALS or CHORAL METHODS AND MATERIALS or INSTRUMENTAL METHODS&MATERIALS	3
MU(X) 141 or 471 Performance Ensemble Option		0.5
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
COUN 315	Human Growth and Development	3

**Hours 13.5**

**Spring**

MUS 200	RECITAL HOUR	0
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12

**Hours 12**

**Total Hours 125.5**

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.

- Online Graduation Clearance (to be completed during the graduating semester only).

**MU(X) ENSEMBLES OPTIONS:**

MUAM African Music and Dance  
 MUBQ Brass Quintet  
 MUBE Brass Ensemble  
 MUTD Steel Pan Ensemble  
 MUTE String Ensemble  
 MUUE Tuba/Euphonium Ensemble  
 MUW Wind Ensemble  
 MUWW Woodwind Ensemble  
 MUS Jazz Combo  
 MUSK Marching Band  
 MUJE Jazz Ensemble or Vocal Jazz Ensemble  
 MUSG University Choir  
 MUJS JSU Singers  
 MUCH Chorale  
 MUWQ Woodwind Quintet  
 MUSV Opera Workshop  
 MUSJ Orchestra  
 MUPE Percussion Ensemble  
 MUCB Concert Band  
 MUYB Symphonic Band  
 MURE Trombone Ensemble  
 MUTT Trumpet Ensemble  
 MUWQ Woodwind Quintet

**Student Learning Outcomes**

1. Students will demonstrate preparedness to teach both instrumental and choral music in a clinical environment.
2. Students will develop advanced skills on their chosen instrument through the study and performance of solo, chamber, and large ensemble repertoire.
3. Students will demonstrate functional secondary instrument skills which will afford them the ability to provide skeletal accompaniment to individuals and/or ensembles if necessary.

**Music Education (B.M.E.) Jazz Emphasis****Major Requirements**

Code	Title	Hours
MU (XX) 171-471	Jazz Performance Ensemble	3.5
MUSY 111-211	Sight Singing and Ear Training	3
MUS(X) 114-215	Applied Secondary Voice or Piano	4
MUS(X) 114-414	Applied Instrument or Voice	14
MUS 111-212	Music Theory I-IV	8
MUS 117	VOICE CLASS	1
MUS 200	Recital Hour (8 semesters)	0
MUS 217	JAZZ HISTORY	2
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUS 230	JAZZ/COMMERCIAL PIANO SK	1
MUS 231	JAZZ/COMMERCIAL PIANO	1
MUS 302	MUSIC IN ELEMENTARY SCHOOL	3
MUS 303	MUSIC IN THE SECONDARY SCHOOL	3

MUS 305	Music Classroom Management and Effective Learning Environments	3
MUS 321	MUSIC HISTORY	3
MUS 322	MUSIC HISTORY	3
MUS 337	BRASSWIND CLASS	1
MUS 338	WOODWIND CLASS	1
MUS 339	PERCUSSION CLASS	1
MUS 333	CONDUCTING	2
MUS 411	VOCAL ARRANGING	2
MUS 420	JAZZ PEDAGOGY/METHODS	3
MUS 311	FORM & ANALYSIS	3
<b>Total Hours</b>		<b>68.5</b>

**Curriculum Map**

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
EDCI 100	INTRODUCTION TO EDUCATION	3
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
MUS 111	MUSIC THEORY	2
MUS 114	Applied Major Instrument or Voice	2
MUS 200	RECITAL HOUR	0
MUJE 171	JAZZ ENSEMBLE	0.5
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MUSD 114 or MUSL 114	APPLIED SECONDARY PIANO or APPLIED SECONDARY VOICE	1
UNIV 100	UNIVERSITY SUCCESS	2
<b>Hours</b>		<b>17.5</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MUS 112	MUSIC THEORY	2
MUS 115	Applied Major Instrument or Voice	2
MUS 117	VOICE CLASS	1
MUS 200	RECITAL HOUR	0
MUJE 172	JAZZ ENSEMBLE I	0.5
MUSD 115 or MUSL 115	APPLIED SECONDARY PIANO or APPLIED SECONDARY VOICE	1
MUSY 112	SIGHT SINGING & EAR TRAINING	1
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16.5</b>
<b>Sophomore</b>		
<b>Fall</b>		
MUS 200	RECITAL HOUR	0
MUS 211	MUSIC THEORY	2
MUS 221	STRING CLASS	1
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MUS 321	MUSIC HISTORY	3
MUSD 214 or MUSL 214	APPLIED SECONDARY PIANO or APPLIED SECONDARY VOICE	1
MUS 214	Applied Major Instrument or Voice	2
MUS 230	JAZZ/COMMERCIAL PIANO SK	1
MUJE 271	JAZZ ENSEMBLE I	0.5
MUS 337	BRASSWIND CLASS	1
Pathway Option		3
<b>Hours</b>		<b>15.5</b>

Spring		
UNIV 200	CIVIC ENGAGEMENT	1
MUS 200	RECITAL HOUR	0
MUS 212	MUSIC THEORY	2
MUSD 215 or MUSL 215	APPLIED SECONDARY PIANO or APPLIED SECONDARY VOICE	1
MUS 215 Applied Major Instrument or Voice		2
MUS 217	JAZZ HISTORY	2
MUS 322	MUSIC HISTORY	3
MUS 338	WOODWIND CLASS	1
MUJE 272	JAZZ ENSEMBLE	0.5
MUS 231	JAZZ/COMMERCIAL PIANO	1
Pathway Option		3

**Hours** **16.5**

Junior		
Fall		
RE 310	TCHNG READING IN CONTENT AREAS	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
MUS 200	RECITAL HOUR	0
MUS 302	MUSIC IN ELEMENTARY SCHOOL	3
MUS 311	FORM & ANALYSIS	3
MUS 314 Applied Major Instrument or Voice		2
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
MUJE 371	JAZZ ENSEMBLE	0.5

**Hours** **17.5**

Spring		
MUS 200	RECITAL HOUR	0
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUS 303	MUSIC IN THE SECONDARY SCHOOL	3
MUS 305	Music Classroom Management and Effective Learning Environments	3
MUS 315 Applied Major Instrument or Voice - Junior Recital		2
MUS 333	CONDUCTING	2
MUS 339	PERCUSSION CLASS	1
MUJE 372 Jazz Ensemble		0.5
Natural Science Option		3

**Hours** **17.5**

Senior		
Fall		
COUN 315	Human Growth and Development	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
MUS 200	RECITAL HOUR	0
MUS 411 Vocal or Instrumental Arranging		2
MUS 414 Applied Major Instrument or Voice - Senior Recital		2
MUS 420	JAZZ PEDAGOGY/METHODS	3
MUJE 471	JAZZ ENSEMBLE	0.5
Social & Behavioral Science Option		3

**Hours** **16.5**

Spring		
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
MUS 200	RECITAL HOUR	0

**Hours** **12**

**Total Hours** **129.5**

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

#### MU(XX) ENSEMBLES OPTIONS:

MUAM African Music and Dance  
 MUBQ Brass Quintet  
 MUBE Brass Ensemble  
 MUTD Steel Pan Ensemble  
 MUTE String Ensemble  
 MUUE Tuba/Euphonium Ensemble  
 MUW Wind Ensemble  
 MUWW Woodwind Ensemble  
 MUS Jazz Combo  
 MUSK Marching Band  
 MUJE Jazz Ensemble or Vocal Jazz Ensemble  
 MUSG University Choir  
 MUJS JSU Singers  
 MUCH Chorale  
 MUWQ Woodwind Quintet  
 MUSV Opera Workshop  
 MUSJ Orchestra  
 MUPE Percussion Ensemble  
 MUCB Concert Band  
 MUYB Symphonic Band  
 MURE Trombone Ensemble  
 MUTT Trumpet Ensemble  
 MUWQ Woodwind Quintet

## Student Learning Outcomes

1. Students will demonstrate preparedness to teach both instrumental and choral music in a clinical environment.
2. Students will develop advanced skills on their chosen instrument through the study and performance of solo, chamber, and large ensemble repertoire.
3. Students will demonstrate functional secondary instrument skills which will afford them the ability to provide skeletal accompaniment to individuals and/or ensembles if necessary.

## Music Education (B.M.E.) Piano Emphasis

### Major Requirements

Code	Title	Hours
MU(X) 101-141	Performance Ensembles	8
MUS 111	MUSIC THEORY	2
MUS 112	MUSIC THEORY	2
MUS 211	MUSIC THEORY	2
MUS 212	MUSIC THEORY	2
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MUS 114	APPLIED PIANO	2
MUS 115	APPLIED PIANO	2
MUSL 114	APPLIED SECONDARY VOICE	1
MUSL 115	APPLIED SECONDARY VOICE	1
MUS 200	RECITAL HOUR (8 semesters)	0
MUS 117	VOICE CLASS	1
MUS 214	APPLIED PIANO	2
MUS 215	APPLIED PIANO	2

MUSL 214	APPLIED SECONDARY VOICE	1
MUSL 215	APPLIED SECONDARY VOICE	1
MUS 221	STRING CLASS	1
MUS 321	MUSIC HISTORY	3
MUS 322	MUSIC HISTORY	3
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUS 302	MUSIC IN ELEMENTARY SCHOOL	3
MUS 303	MUSIC IN THE SECONDARY SCHOOL	3
MUS 305	Music Classroom Management and Effective Learning Environments	3
MUS 311	FORM & ANALYSIS	3
MUS 314	APPLIED PIANO	1-2
MUS 315	APPLIED PIANO	2
MUS 333	CONDUCTING	2
MUS 337	BRASSWIND CLASS	1
MUS 338	WOODWIND CLASS	1
MUS 339	PERCUSSION CLASS	1
MUS 421	PIANO METHODS & MATERIALS	3
MUS 414	APPLIED PIANO	2
MUS 411	Instrumental Arranging	2

**Total Hours 69-70**

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104	COMPOSITION I	3
MATH 111	COLLEGE ALGEBRA	3
or MATH 114	or Quantitative Reasoning	
MUS 111	MUSIC THEORY	2
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MUS 114	APPLIED PIANO	2
MUSL 114	APPLIED SECONDARY VOICE	1
MUS 200	RECITAL HOUR	0
EDCI 100	INTRODUCTION TO EDUCATION	3
MU(X) 101 or 171	Performance Ensemble	.5
<b>Hours</b>		<b>17.5</b>
<b>Spring</b>		
ENG 105	COMPOSITION II	3
MUS 112	MUSIC THEORY	2
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUS 115	APPLIED PIANO	2
MUSL 115	APPLIED SECONDARY VOICE	1
MUS 117	VOICE CLASS	1
MUS 200	RECITAL HOUR	0
MU(X) 102 or 172	Performance Ensemble	.5
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16.5</b>
<b>Sophomore</b>		
<b>Fall</b>		
MUS 200	RECITAL HOUR	0
MUS 211	MUSIC THEORY	2
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MUSL 214	APPLIED SECONDARY VOICE	1
MUS 221	STRING CLASS	1
MUS 214	APPLIED PIANO	2
MUS 321	MUSIC HISTORY	3

MUS 337	BRASSWIND CLASS	1
MU(X) 121 or 271	Performance Ensemble	.5
Social & Behavioral Science Option		3
Pathway Option		3

**Hours 17.5**

<b>Spring</b>		
UNIV 200	CIVIC ENGAGEMENT	1
MUS 200	RECITAL HOUR	0
MUS 212	MUSIC THEORY	2
MUSL 215	APPLIED SECONDARY VOICE	1
MUS 215	APPLIED PIANO	2
MUS 322	MUSIC HISTORY	3
MUS 338	WOODWIND CLASS	1
MU(X) 122 or 272	Performance Ensemble	.5
Natural Science Option		3
Pathway Option		3

**Hours 16.5**

<b>Junior</b>		
<b>Fall</b>		
RE 310	TCHNG READING IN CONTENT AREAS	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
MUS 200	RECITAL HOUR	0
MUS 302	MUSIC IN ELEMENTARY SCHOOL	3
MUS 311	FORM & ANALYSIS	3
MUS 314	APPLIED PIANO	2
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
MU(X) 131 or 371	Performance Ensemble	.5

**Hours 17.5**

<b>Spring</b>		
MUS 200	RECITAL HOUR	0
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUS 303	MUSIC IN THE SECONDARY SCHOOL	3
MUS 305	Music Classroom Management and Effective Learning Environments	3
MUS 315	APPLIED PIANO	2
MUS 333	CONDUCTING	2
MUS 339	PERCUSSION CLASS	1
MU(X) 132 or 372	Performance Ensemble	.5

**Hours 14.5**

<b>Senior</b>		
<b>Fall</b>		
COUN 315	Human Growth and Development	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
MUS 200	RECITAL HOUR	0
MUS 411	Instrumental Arranging	2
MUS 414	APPLIED PIANO	2
MUS 421	PIANO METHODS & MATERIALS	3
MU(X) 141-471	Performance Ensemble	.5

**Hours 13.5**

<b>Spring</b>		
MUS 200	RECITAL HOUR	0
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12

**Hours 12**

**Total Hours 125.5**

**MU(XX) ENSEMBLES OPTIONS:**

- MUAM African Music and Dance
- MUBQ Brass Quintet
- MUBE Brass Ensemble
- MUTD Steel Pan Ensemble



- MUTE String Ensemble
- MUUE Tuba/Euphonium Ensemble
- MUW Wind Ensemble
- MUWW Woodwind Ensemble
- MUS Jazz Combo
- MUSK Marching Band
- MUJE Jazz Ensemble or Vocal Jazz Ensemble
- MUSG University Choir
- MUJS JSU Singers
- MUCH Chorale
- MUWQ Woodwind Quintet
- MUSV Opera Workshop
- MUSJ Orchestra
- MUPE Percussion Ensemble
- MUCB Concert Band
- MUYB Symphonic Band
- MURE Trombone Ensemble
- MUTT Trumpet Ensemble
- MUWQ Woodwind Quintet

## Student Learning Outcomes

### BM-Performance:

1. Students will demonstrate the ability to think, speak, and write clearly and effectively about the art of music from antiquity through the present day.
2. Students will develop and demonstrate motor skills and technical facility on a major applied instrument sufficient to perform increasingly demanding literature.
3. Students will perform at a basic functional level of proficiency on secondary instruments for use in teaching and/or community performance settings.

# Music Education (B.M.E.) Vocal Emphasis

## Major Requirements

Code	Title	Hours
MU(XX) 101-472	Performance Ensemble	3.5
MUS 111	MUSIC THEORY	2
MUS 112	MUSIC THEORY	2
MUS 211	MUSIC THEORY	2
MUS 212	MUSIC THEORY	2
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MUS 311	FORM & ANALYSIS	3
MUSL 114	APPLIED SECONDARY VOICE	1
MUSL 115	APPLIED SECONDARY VOICE	1
MUSL 214	APPLIED SECONDARY VOICE	1
MUSL 215	APPLIED SECONDARY VOICE	1
MUS 200	Recital Hour (8 Semesters)	0
MUSV 114	APPLIED VOICE	2
MUSV 115	APPLIED VOICE	2
MUSV 214	APPLIED VOICE	2
MUSV 215	APPLIED VOICE	2

MUSV 314	APPLIED VOICE	2
MUSV 315	APPLIED VOICE	2
MUSV 414	APPLIED VOICE	2
MUS 117	VOICE CLASS	1
MUS 221	STRING CLASS	1
MUS 321	MUSIC HISTORY	3
MUS 322	MUSIC HISTORY	3
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUS 338	WOODWIND CLASS	1
MUS 302	MUSIC IN ELEMENTARY SCHOOL	3
MUS 303	MUSIC IN THE SECONDARY SCHOOL	3
MUS 305	Music Classroom Management and Effective Learning Environments	3
MUS 337	BRASSWIND CLASS	1
MUS 339	PERCUSSION CLASS	1
MUS 333	CONDUCTING	2
MUS 411	VOCAL ARRANGING	2
MUSM 421	INSTRUMENTAL METHODS&MATERIALS	3
<b>Total Hours</b>		<b>65.5</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111 or MATH 114	COLLEGE ALGEBRA or Quantitative Reasoning	3
MUS 111	MUSIC THEORY	2
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MUS 200	RECITAL HOUR	0
MUSV 114	APPLIED VOICE	2
MUSD 114	APPLIED SECONDARY PIANO	1
MUS 200	RECITAL HOUR	0
EDCI 100	INTRODUCTION TO EDUCATION	3
MU(XX) 101 or MU(XX) 171	Performance Ensemble Option	0.5
<b>Hours</b>		<b>17.5</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MUS 112	MUSIC THEORY	2
MUS 200	RECITAL HOUR	0
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUSV 115	APPLIED VOICE	2
MUSD 115	APPLIED SECONDARY PIANO	1
MUS 117	VOICE CLASS	1
MU(XX) 121 or 172	Performance Ensemble Option	0.5
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16.5</b>
<b>Sophomore</b>		
<b>Fall</b>		
MUS 200	RECITAL HOUR	0
MUS 211	MUSIC THEORY	2
MUS 221	STRING CLASS	1
MUS 321	MUSIC HISTORY	3

MUS 337	BRASSWIND CLASS	1
MUSD 214	APPLIED SECONDARY PIANO	1
MUSV 214	APPLIED VOICE	2
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MU(XX) 121 or 271	Performance Ensemble Option	0.5
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>17.5</b>

**Spring**

MUS 200	RECITAL HOUR	0
MUS 212	MUSIC THEORY	2
MUS 338	WOODWIND CLASS	1
MUS 322	MUSIC HISTORY	3
MUSD 215	APPLIED SECONDARY PIANO	1
MUSV 215	APPLIED VOICE	2
MU(XX) 122 or 272	Performance Ensemble Option	0.5
UNIV 200	CIVIC ENGAGEMENT	1
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16.5</b>

**Junior**

**Fall**

ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
RE 310	TCHNG READING IN CONTENT AREAS	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
MUS 200	RECITAL HOUR	0
MUS 302	MUSIC IN ELEMENTARY SCHOOL	3
MUS 311	FORM & ANALYSIS	3
MUSV 314	APPLIED VOICE	2
MU(XX) 131 or 371	Performance Ensemble Option	0.5
<b>Hours</b>		<b>17.5</b>

**Spring**

MUS 200	RECITAL HOUR	0
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUS 303	MUSIC IN THE SECONDARY SCHOOL	3
MUS 305	Music Classroom Management and Effective Learning Environments	3
MUSV 315	APPLIED VOICE	2
MUS 333	CONDUCTING	2
MUS 339	PERCUSSION CLASS	1
MU(XX) 132 or 372	Performance Ensemble Option	0.5
<b>Hours</b>		<b>14.5</b>

**Senior**

**Fall**

COUN 315	Human Growth and Development	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
MUS 200	RECITAL HOUR	0
MUS 411	VOCAL ARRANGING	2
MUS 421	PIANO METHODS & MATERIALS	3
or MUSQ 421	or CHORAL METHODS AND MATERIALS	
or MUSM 421	or INSTRUMENTAL METHODS&MATERIALS	
MUSV 414	APPLIED VOICE	2
MU(XX) 141 or 471	Performance Ensemble Option	0.5
<b>Hours</b>		<b>13.5</b>

**Spring**

MUS 200	RECITAL HOUR	0
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>125.5</b>

**Notes:**

- Online Graduation Clearance (**to be completed during the graduating semester only**).
- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.

**MU(X) ENSEMBLES OPTIONS:**

- MUAM African Music and Dance
- MUBQ Brass Quintet
- MUBE Brass Ensemble
- MUTD Steel Pan Ensemble
- MUTE String Ensemble
- MUUE Tuba/Euphonium Ensemble
- MUW Wind Ensemble
- MUWW Woodwind Ensemble
- MUS Jazz Combo
- MUSK Marching Band
- MUJE Jazz Ensemble or Vocal Jazz Ensemble
- MUSG University Choir
- MUJS JSU Singers
- MUCH Chorale
- MUWQ Woodwind Quintet
- MUSV Opera Workshop
- MUSJ Orchestra
- MUPE Percussion Ensemble
- MUCB Concert Band
- MUYB Symphonic Band
- MURE Trombone Ensemble
- MUTT Trumpet Ensemble
- MUWQ Woodwind Quintet

**Student Learning Outcomes**

1. Students will demonstrate preparedness to teach both instrumental and choral music in a clinical environment.
2. Students will develop advanced skills on their chosen instrument through the study and performance of solo, chamber, and large ensemble repertoire.
3. Students will demonstrate functional secondary instrument skills which will afford them the ability to provide skeletal accompaniment to individuals and/or ensembles if necessary.

**Music Performance (B.M.) Instrumental Emphasis**

**Major Requirements**

Code	Title	Hours
MUS_101-472	Performance Ensembles	8
MUS 111	MUSIC THEORY	2
MUS 112	MUSIC THEORY	2
MUS 211	MUSIC THEORY	2
MUS 212	MUSIC THEORY	2
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUSY 212	SIGHT SINGING & EAR TRAINING	1
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MUS 311	FORM & ANALYSIS	3
MUS 312	COUNTERPOINT	3

MUSD 114	APPLIED SECONDARY PIANO	1
MUSD 115	APPLIED SECONDARY PIANO	1
MUSD 214	APPLIED SECONDARY PIANO	1
MUSD 215	APPLIED SECONDARY PIANO	1
MUS_142-428 Applied Major Instrument		24
MUS 200 Recital Hour (8 Semesters)		0
MUS 100	CAREERS IN MUSIC	2
MUS 321	MUSIC HISTORY	3
MUS 322	MUSIC HISTORY	3
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUS 210	JAZZ IMPROVISATION	2
MUS 333	CONDUCTING	2
MUS 319	CHAMBER MUSIC	3
MUS 431	SYMPHONIC LITERATURE	3
MUS 408	PIANO PEDAGOGY	3
MUS 427	MUSIC SEMINAR	3
MUS 407	INSTRUMENTAL PEDAGOGY	3
<b>Total Hours</b>		<b>84</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
MU(X) 101 or 171 Performance Ensemble Option		0.5
MU(X) 101 or 171 2nd Performance Ensemble Option		0.5
MUS 111	MUSIC THEORY	2
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MUS 124 Applied Instrument		3
MUSD 114	APPLIED SECONDARY PIANO	1
MUS 200	RECITAL HOUR	0
UNIV 100	UNIVERSITY SUCCESS	2
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MUS 100	CAREERS IN MUSIC	2
MUS 112	MUSIC THEORY	2
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUSD 115	APPLIED SECONDARY PIANO	1
MUS 125 Applied Instrument		3
MU(X) 102 or 172 Performance Ensemble Option		0.5
MU(X) 102 or 172 2nd Performance Ensemble Option		0.5
MUS 200	RECITAL HOUR	0
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
MUS 200	RECITAL HOUR	0
MUS 211	MUSIC THEORY	2
MUS 224 Applied Instrument		3
MUS 321	MUSIC HISTORY	3
MU(X) 121 or 271 Performance Ensemble Option		0.5
MU(X) 121 or 271 2nd Performance Ensemble Option		0.5
MUSD 214	APPLIED SECONDARY PIANO	1

MUSY 211	SIGHT SINGING & EAR TRAINING	1
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
MUS 200	RECITAL HOUR	0
MUS 212	MUSIC THEORY	2
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUSD 215	APPLIED SECONDARY PIANO	1
MUS 225 Applied Instrument		3
MUS 322	MUSIC HISTORY	3
MU(X) 122-272 Performance Ensemble Option		0.5
MU(X) 122-272 2nd Performance Ensemble Option		0.5
Pathway Option		3
UNIV 200	CIVIC ENGAGEMENT	1
<b>Hours</b>		<b>17</b>
<b>Junior</b>		
<b>Fall</b>		
MUS 200	RECITAL HOUR	0
MUS 210	JAZZ IMPROVISATION	2
MUS 311	FORM & ANALYSIS	3
MUS 324 Applied Major		3
MU(X) 131 or 371 Performance Ensemble Option		0.5
MU(X) 131 or 371 2nd Performance Ensemble Option		0.5
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MUS 200	RECITAL HOUR	0
MUS 312	COUNTERPOINT	3
MUS 325 Applied Major		3
MU(X) 132 or 372 Performance Ensemble Option		0.5
MU(X) 132 or 372 2nd Performance Ensemble Option		0.5
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>13</b>
<b>Senior</b>		
<b>Fall</b>		
MUS 200	RECITAL HOUR	0
MUS 319 CHAMBER MUSIC		3
MUS 431 SYMPHONIC LITERTURE		3
MUS 408	PIANO PEDAGOGY	3
MUS 424 Applied Major		3
MUS 427	MUSIC SEMINAR	3
MU(X) 141 or 471 Performance Ensemble Option		0.5
MU(X) 141 or 471 2nd Performance Ensemble Option		0.5
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
MUS 200	RECITAL HOUR	0
MUS 333	CONDUCTING	2
MUS 407	INSTRUMENTAL PEDAGOGY	3
MUS 428 Senior Recital		3
MU(X) 142 or 472 Performance Ensemble Option		0.5
MU(X) 142 or 472 2nd Performance Ensemble Option		0.5
Music Elective		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>122</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

**MU(X) ENSEMBLES OPTIONS:**

MUAM African Music and Dance  
 MUBQ Brass Quintet  
 MUBE Brass Ensemble  
 MUTD Steel Pan Ensemble  
 MUTE String Ensemble  
 MUUE Tuba/Euphonium Ensemble  
 MUW Wind Ensemble  
 MUWW Woodwind Ensemble  
 MUS Jazz Combo  
 MUSK Marching Band  
 MUJE Jazz Ensemble or Vocal Jazz Ensemble  
 MUSG University Choir  
 MUJS JSU Singers  
 MUCH Chorale  
 MUWQ Woodwind Quintet  
 MUSV Opera Workshop  
 MUSJ Orchestra  
 MUPE Percussion Ensemble  
 MUCB Concert Band  
 MUYB Symphonic Band  
 MURE Trombone Ensemble  
 MUTT Trumpet Ensemble  
 MUWQ Woodwind Quintet

**Student Learning Outcomes**

1. Students will demonstrate the ability to think, speak, and write clearly and effectively about the art of music from antiquity through the present day.
2. Students will develop and demonstrate motor skills and technical facility on a major applied instrument sufficient to perform increasingly demanding literature.
3. Students will perform at a basic functional level of proficiency on secondary instruments for use in teaching and/or community performance settings.

**Music Performance (B.M.) Jazz Studies Emphasis Instrumental or Vocal****Major Requirements**

Code	Title	Hours
MUS 100	CAREERS IN MUSIC	2
<b>Music Theory I-IV</b>		
Select 8 hours from the following:		8
MUS 111	MUSIC THEORY	
MUS 112	MUSIC THEORY	
MUS 211	MUSIC THEORY	
MUS 212	MUSIC THEORY	2
MUSY 111	SIGHT SINGING & EAR TRAINING	1

MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MUS 311	FORM & ANALYSIS	3
MUS 313	JAZZ THEORY	3

**Applied Instrument or Voice**

Select 8 credits from the following:	8
MUS _ 114-415	

**Applied Secondary Piano or Voice**

Select 4 credits from the following:	4
MUS_114-215	

**Jazz Ensemble**

Select 4 hours from the following:	4	
MUJE 171	JAZZ ENSEMBLE	
MUJE 172	JAZZ ENSEMBLE I	
MUJE 271	JAZZ ENSEMBLE I	
MUJE 272	JAZZ ENSEMBLE	
MUJE 371	JAZZ ENSEMBLE	
MUJE 471	JAZZ ENSEMBLE	

**Jazz Combo I-IV**

Select 4 credits from the following:	4
Jazz Comb I-IV	

<b>Total Hours</b>	<b>41</b>
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**Jazz Studies - Instrumental**

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MUS 111	MUSIC THEORY	2
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MUS 114 Applied Major (Jazz)		2
MUSD 114	APPLIED SECONDARY PIANO	1
MUJE 171	JAZZ ENSEMBLE	0.5
MUS 190	JAZZ COMBO I	0.5
MUS 200	RECITAL HOUR	0
MATH 114	Quantitative Reasoning	3
		<b>Hours</b>
		<b>15</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MUS 100	CAREERS IN MUSIC	2
MUS 112	MUSIC THEORY	2
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUS 115 Applied Major (Jazz)		2
MUSD 115	APPLIED SECONDARY PIANO	1
MUJE 172	JAZZ ENSEMBLE I	0.5
MUS 191	JAZZ COMBO I	0.5
MUS 200	RECITAL HOUR	0
Natural Science Option		3
Pathway Option		3
		<b>Hours</b>
		<b>18</b>
<b>Sophomore</b>		
<b>Fall</b>		
MUS 200	RECITAL HOUR	0
MUS 211	MUSIC THEORY	2

MUSY 211	SIGHT SINGING & EAR TRAINING	1
MUS 214 Applied Major (Jazz)		2
MUJE 271	JAZZ ENSEMBLE I	0.5
MUS 230	JAZZ/COMMERCIAL PIANO SK	1
MUS 321	MUSIC HISTORY	3
MUS 292 Jazz Improvisation I		2
MUS 290 JAZZ COMBO II		0.5
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MUS 200	RECITAL HOUR	0
MUS 212	MUSIC THEORY	2
MUS 215 Applied Major (Jazz)		2
MUS 217	JAZZ HISTORY	2
MUS 291 Jazz Combo II		0.5
MUS 231	JAZZ/COMMERCIAL PIANO	1
MUJE 272	JAZZ ENSEMBLE	0.5
MUS 293	JAZZ IMPROVISATION II	2
MUS 322	MUSIC HISTORY	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Junior</b>		
<b>Fall</b>		
MUS 200	RECITAL HOUR	0
MUS 311	FORM & ANALYSIS	3
MUS 314 Applied Major (Jazz)		2
MUS 392	JAZZ IMPROVISATION III	2
MUS 390 Jazz Combo II		0.5
MUJE 371	JAZZ ENSEMBLE	0.5
SPCH 201	SPEECH ARTS	3
Humanities & Fine Arts Option		3
Natural Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
MUS 200	RECITAL HOUR	0
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUS 315 Applied Major (Jazz)		2
MUS 333	CONDUCTING	2
MUJE 372 Jazz Ensemble		0.5
MUS 391 Jazz Combo III		0.5
MUS 393	JAZZ IMPROV IV	2
MUS 313	JAZZ THEORY	3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>16</b>
<b>Senior</b>		
<b>Fall</b>		
MUS 200	RECITAL HOUR	0
MUS 414 Applied Major		2
MUS 440	JAZZ COMPOSITION/ARRANGEMENT	3
MUS 420	JAZZ PEDAGOGY/METHODS	3
MUJE 471	JAZZ ENSEMBLE	0.5
MUS 490 Jazz Combo IV		1
Social & Behavioral Science Option		3
<b>Hours</b>		<b>12.5</b>
<b>Spring</b>		
MUS 200	RECITAL HOUR	0
MUS 441	JAZZ COMP/ARR	3
MUS 415 Senior Recital		3
MUS 491 Jazz Combo V		1
MUJE Jazz Ensemble		0.5

General Elective	3	
Music Elective	3	
<b>Hours</b>		<b>13.5</b>
<b>Total Hours</b>		<b>124</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.

Online Graduation Clearance (**to be completed during the graduating semester only**).

**MU(XX) ENSEMBLES OPTIONS:**

- MUAM African Music and Dance
- MUBQ Brass Quintet
- MUBE Brass Ensemble
- MUTD Steel Pan Ensemble
- MUTE String Ensemble
- MUUE Tuba/Euphonium Ensemble
- MUW Wind Ensemble
- MUWW Woodwind Ensemble
- MUS Jazz Combo
- MUSK Marching Band
- MUJE Jazz Ensemble or Vocal Jazz Ensemble
- MUSG University Choir
- MUJS JSU Singers
- MUCH Chorale
- MUWQ Woodwind Quintet
- MUSV Opera Workshop
- MUSJ Orchestra
- MUPE Percussion Ensemble
- MUCB Concert Band
- MUYB Symphonic Band
- MURE Trombone Ensemble
- MUTT Trumpet Ensemble
- MUWQ Woodwind Quintet

## Student Learning Outcomes

1. Students will demonstrate the ability to think, speak, and write clearly and effectively about the art of music from antiquity through the present day.
2. Students will develop and demonstrate motor skills and technical facility on a major applied instrument sufficient to perform increasingly demanding literature.
3. Students will perform at a basic functional level of proficiency on secondary instruments for use in teaching and/or community performance settings.

## Jazz Studies -Vocal

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
UNIV 100	UNIVERSITY SUCCESS	2
MUS 111	MUSIC THEORY	2
MUSY 111	SIGHT SINGING & EAR TRAINING	1

MUSV 114	APPLIED VOICE	2
MUSD 114	APPLIED SECONDARY PIANO	1
MUS 119	JAZZ VOCAL TECHNIQUES I	1
MUJE 171	JAZZ ENSEMBLE	0.5
MUS 190	JAZZ COMBO I	0.5
MUS 200	RECITAL HOUR	0
<b>Hours</b>		<b>16</b>

**Spring**

ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MUS 100	CAREERS IN MUSIC	2
MUS 112	MUSIC THEORY	2
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUSV 115	APPLIED VOICE	2
MUSD 115	APPLIED SECONDARY PIANO	1
MUJE 172	JAZZ ENSEMBLE I	0.5
MUS 191	JAZZ COMBO I	0.5
MUS 219	JAZZ VOCAL TECHNIQUES II	1
MUS 200	RECITAL HOUR	0
Pathway Option		3
<b>Hours</b>		<b>16</b>

**Sophomore**

**Fall**

MUS 200	RECITAL HOUR	0
MUS 211	MUSIC THEORY	2
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MUSV 214	APPLIED VOICE	2
MUS 271 Vocal Jazz Ensemble		0.5
MUS 230	JAZZ/COMMERCIAL PIANO SK	1
MUS 290 Jazz Combo II		0.5
MUS 321	MUSIC HISTORY	3
MUS 292 Jazz Improvisation I		2
Pathway Option		3
<b>Hours</b>		<b>15</b>

**Spring**

MUS 200	RECITAL HOUR	0
MUS 212	MUSIC THEORY	2
MUSV 215	APPLIED VOICE	2
MUS 217	JAZZ HISTORY	2
MUS 231	JAZZ/COMMERCIAL PIANO	1
MUJE 272	JAZZ ENSEMBLE	0.5
MUS 291 Jazz Combo II		0.5
MUS 293	JAZZ IMPROVISATION II	2
MUS 322	MUSIC HISTORY	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>17</b>

**Junior**

**Fall**

MUS 311	FORM & ANALYSIS	3
MUSV 314	APPLIED VOICE	2
MUJE 371	JAZZ ENSEMBLE	0.5
MUS 390 Jazz Combo II		0.5
MUS 392	JAZZ IMPROVISATION III	2
MUS 200	RECITAL HOUR	0
SPCH 201	SPEECH ARTS	3
Humanities & Fine Arts Option		3
Natural Science Option		3
<b>Hours</b>		<b>17</b>

**Spring**

MUS 200	RECITAL HOUR	0
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MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUJE 372	VOCAL JAZZ ENSEMBLE	0.5
MUSV 315	APPLIED VOICE	2
MUS 391 Jazz Combo III		0.5
MUS 333	CONDUCTING	2
MUS 393	JAZZ IMPROV IV	2
MUS 313	JAZZ THEORY	3
Natural Science Option		3
<b>Hours</b>		<b>16</b>

**Senior**

**Fall**

MUS 200	RECITAL HOUR	0
MUS 440	JAZZ COMPOSITION/ARRANGEMENT	3
MUS 420	JAZZ PEDAGOGY/METHODS	3
MUSV 414	APPLIED VOICE	2
MUJE 471	JAZZ ENSEMBLE	0.5
MUS 490 Jazz Combo IV		1
Social & Behavioral Science Option		3
<b>Hours</b>		<b>12.5</b>

**Spring**

MUS 200	RECITAL HOUR	0
MUSV 415	SENIOR RECITAL (JAZZ)	3
MUS 441	JAZZ COMP/ARR	3
MUJE 472	VOCAL JAZZ ENSEMBLE	0.5
MUS 491 Jazz Combo V		1
Music Elective		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>13.5</b>
<b>Total Hours</b>		<b>123</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

**MU(XX) ENSEMBLES OPTIONS:**

- MUAM African Music and Dance
- MUBQ Brass Quintet
- MUBE Brass Ensemble
- MUTD Steel Pan Ensemble
- MUTE String Ensemble
- MUUE Tuba/Euphonium Ensemble
- MUW Wind Ensemble
- MUWW Woodwind Ensemble
- MUS Jazz Combo
- MUSK Marching Band
- MUJE Jazz Ensemble or Vocal Jazz Ensemble
- MUSG University Choir
- MUJS JSU Singers
- MUCH Chorale
- MUWQ Woodwind Quintet
- MUSV Opera Workshop
- MUSJ Orchestra
- MUPE Percussion Ensemble
- MUCB Concert Band
- MUYB Symphonic Band
- MURE Trombone Ensemble
- MUTT Trumpet Ensemble

MUWQ Woodwind Quintet

# Music Performance (B.M.) Keyboard Emphasis

## Major Requirements

Code	Title	Hours
MUS 100	CAREERS IN MUSIC	2
MUS_ 101-472	Performance Ensembles	8
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MUS 111	MUSIC THEORY	2
MUS 112	MUSIC THEORY	2
MUS 211	MUSIC THEORY	2
MUS 212	MUSIC THEORY	2
MUS 142-428	Applied Major Piano	24
MUSL 114	APPLIED SECONDARY VOICE	1
MUSL 115	APPLIED SECONDARY VOICE	1
MUS 210	JAZZ IMPROVISATION	2
MUSL 214	APPLIED SECONDARY VOICE	1
MUSL 215	APPLIED SECONDARY VOICE	1
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUS 311	FORM & ANALYSIS	3
MUS 312	COUNTERPOINT	3
MUS 319	CHAMBER MUSIC	3
MUS 321	MUSIC HISTORY	3
MUS 322	MUSIC HISTORY	3
MUS 333	CONDUCTING	2
MUS 431	SYMPHONIC LITERATURE	3
MUS 408	PIANO PEDAGOGY	3
MUS 427	MUSIC SEMINAR	3
MUS 407	INSTRUMENTAL PEDAGOGY	3
MUS 200	Recital Hour (8 Semesters)	0
MUSY 212	SIGHT SINGING & EAR TRAINING	1

**Total Hours** **84**

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
MU(X) 101 or 171	Performance Ensemble Option	0.5
MU(X) 101 or 171	2nd Performance Ensemble Option	0.5
MUS 111	MUSIC THEORY	2
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MUS 124	APPLIED MAJOR PIANO	3
MUSL 114	APPLIED SECONDARY VOICE	1
MUS 200	RECITAL HOUR	0
<b>Hours</b>		<b>16</b>

### Spring

ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MUS 112	MUSIC THEORY	2
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUS 125	APPLIED MAJOR PIANO	3
MUSL 115	APPLIED SECONDARY VOICE	1
MU(X) 102 or 172	Performance Ensemble Option	0.5
MU(X) 102 or 172	2nd Performance Ensemble Option	0.5
MUS 200	RECITAL HOUR	0
MUS 100	CAREERS IN MUSIC	2
Pathway Option		3

**Hours** **16**

### Sophomore

<b>Fall</b>		
MU(X) 121 or 271	Performance Ensemble Option	0.5
MU(X) 121 or 271	2nd Performance Ensemble Option	0.5
MUS 200	RECITAL HOUR	0
MUS 211	MUSIC THEORY	2
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MUSL 214	APPLIED SECONDARY VOICE	1
MUS 224	APPLIED MAJOR PIANO	3
MUS 321	MUSIC HISTORY	3
Natural Science Option		3
Pathway Option		3

**Hours** **17**

### Spring

UNIV 200	CIVIC ENGAGEMENT	1
MUS 200	RECITAL HOUR	0
MUS 212	MUSIC THEORY	2
MU(X) 122 or 272	Performance Ensemble Option	0.5
MU(X) 122 or 272	2nd Performance Ensemble Option	0.5
MUS 207	KEYBOARD SKILLS	3
MUS 225	Applied Major	3
MUSL 215	APPLIED SECONDARY VOICE	1
MUS 322	MUSIC HISTORY	3
Pathway Option		3

**Hours** **17**

### Junior

<b>Fall</b>		
MU(X) 131 or 371	Performance Ensemble Option	0.5
MU(X) 131 or 371	2nd Performance Ensemble Option	0.5
MUS 200	RECITAL HOUR	0
MUS 311	FORM & ANALYSIS	3
MUS 324	APPLIED MAJOR PIANO	3
MUS 319	CHAMBER MUSIC	3
Natural Science Option		3
Social & Behavioral Science Option		3

**Hours** **16**

### Spring

MU(X) 132 or 372	Performance Ensemble Option	0.5
MU(X) 132 or 372	2nd Performance Ensemble Option	0.5
MUS 200	RECITAL HOUR	0
MUS 312	COUNTERPOINT	3
MUS 333	CONDUCTING	2
MUS 325	APPLIED MAJOR PIANO	3
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
Humanities & Fine Arts Option		3

**Hours** **15**

### Senior

<b>Fall</b>		
MU(X) 141 or 471	Performance Ensemble Option	0.5

MU(X) 141 or 471 2nd Performance Ensemble Option	0.5
MUS 200 RECITAL HOUR	0
MUS 427 MUSIC SEMINAR	3
MUS 408 PIANO PEDAGOGY	3
MUS 424 Applied Major	3
MUS 432 KEYBOARD LITERATURE I	3
<b>Hours</b>	<b>13</b>

**Spring**

MU(X) 142 or 472 Performance Ensemble Option	0.5
MU(X) 142 or 472 2nd Performance Ensemble Option	0.5
MUS 200 RECITAL HOUR	0
MUS 409 PIANO PEDAGOGY	3
MUS 248 Senior Recital	3
Social & Behavioral Science Option	3
MUS 434 KEYBOARD LITERATURE II	3
<b>Hours</b>	<b>13</b>
<b>Total Hours</b>	<b>123</b>

**Notes:**

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- Online Graduation Clearance (**to be completed during the graduating semester only**).

**MU(XX) ENSEMBLES OPTIONS:**

MUAM African Music and Dance  
MUBQ Brass Quintet  
MUBE Brass Ensemble  
MUTD Steel Pan Ensemble  
MUTE String Ensemble  
MUUE Tuba/Euphonium Ensemble  
MUW Wind Ensemble  
MUWW Woodwind Ensemble  
MUS Jazz Combo  
MUSK Marching Band  
MUJE Jazz Ensemble or Vocal Jazz Ensemble  
MUSG University Choir  
MUJS JSU Singers  
MUCH Chorale  
MUWQ Woodwind Quintet  
MUSV Opera Workshop  
MUSJ Orchestra  
MUPE Percussion Ensemble  
MUCB Concert Band  
MUYB Symphonic Band  
MURE Trombone Ensemble  
MUTT Trumpet Ensemble  
MUWQ Woodwind Quintet

**Student Learning Outcomes**

1. Students will demonstrate the ability to think, speak, and write clearly and effectively about the art of music from antiquity through the present day.
2. Students will develop and demonstrate motor skills and technical facility on a major applied instrument sufficient to perform increasingly demanding literature.

3. Students will perform at a basic functional level of proficiency on secondary instruments for use in teaching and/or community performance settings.

**Music Performance (B.M.) Music Technology****Major Requirements**

Code	Title	Hours
MUS 100	CAREERS IN MUSIC	2
MU_101-472	Performance Ensemble	4
MUS 111	MUSIC THEORY	2
MUS 112	MUSIC THEORY	2
MUS 211	MUSIC THEORY	2
MUS 212	MUSIC THEORY	2
MUS 311	FORM & ANALYSIS	3
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MUS_ 114-215	Applied Instrument or Voice	8
MUS_ 114-215	Applied Secondary Piano or Voice	4
MUS 200	Recital Hour (8 Semesters)	0
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUS 281	INTRO TO MUSIC SEQUENCING	3
MUS 280	MIDI BASICS	3
MUS 321	MUSIC HISTORY	3
MUS 322	MUSIC HISTORY	3
MUS 282	INTRODUCTION TO MUSIC NOTATION	3
MUS 381	ADVANCED MUSIC SEQUENCING	3
MUS 382	ADVANCED MUSIC NOTATION	3
MUS 383	DIGITAL AUDIO AND VIDEO	3
MUS 480	INTRODUCTION TO DIGITAL MEDIA	3
MUS 481	COMPUTER APPL IN THE MUS INDUS	3
MUS 482	STUDIO RECORDING TECHNIQUES	3
MUS 483	DIGITAL SENIOR RECITAL	3
MUS 484	Music Technology Internship	12
<b>Total Hours</b>		<b>83</b>

**Departmental Grade Policy:** Students must earn a minimum grade of "C" in all major courses.

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MUS 111	MUSIC THEORY	2
MATH 114	Quantitative Reasoning	3
MU(XX) 101 or 171	Performance Ensemble Option	0.5
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MU(XX) Applied Instrument		3
MUSD 114 or MUSL 114	APPLIED SECONDARY PIANO or APPLIED SECONDARY VOICE	1



MUS 200	RECITAL HOUR	0
<b>Hours</b>		<b>15.5</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MUS 112	MUSIC THEORY	2
MUS 100	CAREERS IN MUSIC	2
MU(XX) 102 or 172 Performance Ensemble Option		0.5
MU(XX) 115 Applied Instrument		2
MUS 200	RECITAL HOUR	0
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUSD 115 or MUSL 115	APPLIED SECONDARY PIANO or APPLIED SECONDARY VOICE	1
Pathway Option		3
<b>Hours</b>		<b>17.5</b>
<b>Sophomore</b>		
<b>Fall</b>		
MUS 200	RECITAL HOUR	0
MUS 211	MUSIC THEORY	2
MU(XX) 121 or 271 Performance Ensemble Option		0.5
MUSD 214 or MUSL 214	APPLIED SECONDARY PIANO or APPLIED SECONDARY VOICE	1
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MU(XX) 214 Applied Instrument		2
MUS 321	MUSIC HISTORY	3
MUS 281	INTRO TO MUSIC SEQUENCING	3
MUS 280 MIDI BASICS		3
Pathway Option		3
<b>Hours</b>		<b>18.5</b>
<b>Spring</b>		
MUS 200	RECITAL HOUR	0
MUS 212	MUSIC THEORY	2
MUS 282	INTRODUCTION TO MUSIC NOTATION	3
MUS 322	MUSIC HISTORY	3
MU(XX) 122 or 272 Performance Ensemble Option		0.5
MU(XX) 215 Applied Instrument		2
MUSD 215 or MUSL 215	APPLIED SECONDARY PIANO or APPLIED SECONDARY VOICE	1
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>15.5</b>
<b>Junior</b>		
<b>Fall</b>		
MUS 200	RECITAL HOUR	0
MUS 311	FORM & ANALYSIS	3
MUS 381	ADVANCED MUSIC SEQUENCING	3
MU(XX) 131 or 371 Performance Ensemble Option		0.5
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>15.5</b>
<b>Spring</b>		
MUS 200	RECITAL HOUR	0
MU(XX) 132 or 372 Performance Ensemble Option		0.5
MUS 382	ADVANCED MUSIC NOTATION	3
MUS 383	DIGITAL AUDIO AND VIDEO	3
General Elective		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>15.5</b>

<b>Senior</b>		
<b>Fall</b>		
MUS 200	RECITAL HOUR	0
MU(XX) 141 or 471 Performance Ensemble Option		0.5
MUS 480	INTRODUCTION TO DIGITAL MEDIA	3
MUS 481	COMPUTER APPL IN THE MUS INDUS	3
MUS 482	STUDIO RECORDING TECHNIQUES	3
MUS 483	DIGITAL SENIOR RECITAL	3
<b>Hours</b>		<b>12.5</b>
<b>Spring</b>		
MUS 200	RECITAL HOUR	0
MU(XX) 142 or 472 Performance Ensemble Option		0.5
MUS 484	Music Technology Internship	12
<b>Hours</b>		<b>12.5</b>
<b>Total Hours</b>		<b>123</b>

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- Online Graduation Clearance (**to be completed during the graduating semester only**).

**MU(XX) ENSEMBLES OPTIONS:**

- MUAM African Music and Dance
- MUBQ Brass Quintet
- MUBE Brass Ensemble
- MUTD Steel Pan Ensemble
- MUTE String Ensemble
- MUUE Tuba/Euphonium Ensemble
- MUW Wind Ensemble
- MUWW Woodwind Ensemble
- MUS Jazz Combo
- MUSK Marching Band
- MUJE Jazz Ensemble or Vocal Jazz Ensemble
- MUSG University Choir
- MUJS JSU Singers
- MUCH Chorale
- MUWQ Woodwind Quintet
- MUSV Opera Workshop
- MUSJ Orchestra
- MUPE Percussion Ensemble
- MUCB Concert Band
- MUYB Symphonic Band
- MURE Trombone Ensemble
- MUTT Trumpet Ensemble
- MUWQ Woodwind Quintet

**Student Learning Outcomes**

1. Students will demonstrate the ability to think, speak, and write clearly and effectively about the art of music from antiquity through the present day.
2. Students will apply working knowledge of current music technology in practical application.
3. Students will create and present an aural and visual presentation that demonstrates mastery of notation software, use of MIDI and music sequencing software, and the ability to engineer a complete studio recorded track.

# Music Performance (B.M.) Vocal Emphasis

## Major Requirements

Code	Title	Hours
MU_101-472	Performance Ensembles	8
MUS 111	MUSIC THEORY	2
MUS 112	MUSIC THEORY	2
MUS 211	MUSIC THEORY	2
MUS 212	MUSIC THEORY	2
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MUSD 114	APPLIED SECONDARY PIANO	1
MUSD 115	APPLIED SECONDARY PIANO	1
MUSD 214	APPLIED SECONDARY PIANO	1
MUSD 215	APPLIED SECONDARY PIANO	1
MUSV 124	APPLIED VOICE MAJOR	3
MUSV 125	APPLIED VOICE MAJOR	3
MUSV 224	APPLIED VOICE MAJOR	3
MUSV 225	APPLIED MAJOR VOICE	3
MUSV 324	APPLIED VOICE MAJOR	3
MUSV 325	APPLIED VOICE MAJOR	3
MUSV 424	APPLIED VOICE MAJOR	3
MUSV 428	APPLIED VOICE MAJOR	3
MUS 100	CAREERS IN MUSIC	2
MUS 200	Recital Hour (8 Semesters)	0
MUS 208	DICTION FOR SINGERS	3
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
MUS 311	FORM & ANALYSIS	3
MUS 312	COUNTERPOINT	3
MUS 321	MUSIC HISTORY	3
MUS 322	MUSIC HISTORY	3
MUS 333	CONDUCTING	2
MUS 426	VOICE PEDAGOGY	3
MUS 433	SONG LITERATURE	3
<b>Total Hours</b>		<b>75</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
MUSG 101	UNIVERSITY CHOIR	0.5
MUCH 171	CHORALE	0.5
MUS 111	MUSIC THEORY	2
MUSY 111	SIGHT SINGING & EAR TRAINING	1
MUSV 124	APPLIED VOICE MAJOR	3
MUSD 114	APPLIED SECONDARY PIANO	1

MUS 200	RECITAL HOUR	0
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MUS 100	CAREERS IN MUSIC	2
MUS 112	MUSIC THEORY	2
MUS 200	RECITAL HOUR	0
MUSY 112	SIGHT SINGING & EAR TRAINING	1
MUSV 125	APPLIED VOICE MAJOR	3
MUSD 115	APPLIED SECONDARY PIANO	1
MUCH 172	CHORALE	0.5
MUSG 102	UNIVERSITY CHOIR	0.5
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
MUSG 121	CHOIR	0.5
MUCH 271	CHORALE	0.5
MUSD 214	APPLIED SECONDARY PIANO	1
MUS 200	RECITAL HOUR	0
MUS 211	MUSIC THEORY	2
MUSY 211	SIGHT SINGING & EAR TRAINING	1
MUSV 224	APPLIED VOICE MAJOR	3
MUS 321	MUSIC HISTORY	3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
UNIV 200	CIVIC ENGAGEMENT	1
MUS 200	RECITAL HOUR	0
MUS 212	MUSIC THEORY	2
MUSG 122	UNIVERSITY CHOIR	0.5
MUCH 272	UNIVERSITY CHORALE	0.5
MUS 208	DICTION FOR SINGERS	3
MUSD 215	APPLIED SECONDARY PIANO	1
MUSV 225	APPLIED MAJOR VOICE	3
MUS 322	MUSIC HISTORY	3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Junior</b>		
<b>Fall</b>		
MUS 311	FORM & ANALYSIS	3
MUSG 131	CHOIR	0.5
MUCH 371	CHORALE	0.5
MUSV 324	APPLIED VOICE MAJOR	3
MUS 200	RECITAL HOUR	0
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>13</b>
<b>Spring</b>		
MUS 200	RECITAL HOUR	0
MUS 312	COUNTERPOINT	3
MUS 333	CONDUCTING	2
MUCH 372	CHORALE	0.5
MUSG 132	CHOIR	0.5
MUSV 325	APPLIED VOICE MAJOR	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>15</b>

Senior		
Fall		
MUSG 141	UNIVERSITY CHOIR	0.5
MUCH 471	CHORALE	0.5
MUS 200	RECITAL HOUR	0
MUSV 424	APPLIED VOICE MAJOR	3
MUS 319	CHAMBER MUSIC	3
MUS 433	SONG LITERATURE	3
MUS 426	VOICE PEDAGOGY	3
<b>Hours</b>		<b>13</b>
Spring		
MUSV 428	APPLIED VOICE MAJOR	3
MUS 435	Song Literature II	3
MUS 200	RECITAL HOUR	0
MUSG 142	UNIVERSITY CHOIR	0.5
MUCH 472	CHORALE	0.5
MUS 226	INTRODUCTN TO MUSIC TECHNOLOGY	3
Music Elective		3
<b>Hours</b>		<b>13</b>
<b>Total Hours</b>		<b>120</b>

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- On-line Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

**BM-Performance:**

1. Students will demonstrate the ability to think, speak, and write clearly and effectively about the art of music from antiquity through the present day.
2. Students will develop and demonstrate motor skills and technical facility on a major applied instrument sufficient to perform increasingly demanding literature.
3. Students will perform at a basic functional level of proficiency on secondary instruments for use in teaching and/or community performance settings.

## Music Minor

### Course Requirements

Code	Title	Hours
MUS 111-212	Music Theory I-IV	8
MUSY 111-211	Sight Singing & Ear Training	3
MUS_ 114-115	Applied Instrument	4
MUS_ 114-115	Applied Secondary Voice or Piano	2
MUS_ 101-122	Performance Ensemble	2
MUS 200	REcital Hour (2 Semesters)	0
MUS 321 or 205	Music History I or Music Appreciation	3
<b>Total Hours</b>		<b>22</b>

## Department of Political Science

Dr. Maruice Mangum

Department Chair  
601-979-2822

## Faculty of Department

B. House-Soremekun, R. Mikell, E. Nwagboso, B. Orey

## Introduction/Mission

The Department of Political Science at Jackson State University helps students combine theoretical creativity and empirical research. Among the department's areas of strength are American Politics, Comparative Politics (particularly African Politics), International Relations, and Public Law. The departmental faculty use diverse analytic perspectives, but their research programs share a common concern for the role of citizenship in government, political processes, and institutions. The department encourages students to participate in research activities and experiential learning. Mississippi's capital city, Jackson, is a rich learning laboratory that provides our students with internships in state and local government, the court system, law firms, and political campaigns.

## Objectives

- To develop in students a substantive body of knowledge about the history and evolution of the discipline including its various approaches and methods.
- To nurture in students specialized and thorough knowledge in American Politics, International Affairs, or Legal Studies.
- To help students acquire the capacity to gather and analyze primary and secondary political data, to critique extant studies, to construct creative research proposals, and to craft original research.
- To develop students' critical and analytical thinking and writing.
- To encourage students to participate in service-learning activities—local, national and international—that permit access to early job placements and an appreciation for the practice of citizenship.

## Bachelor

- Political Science (B.A.) (p. 138)
- Political Science (B.A.) Legal Studies Concentration (p. 140)
- Political Science (B.A.) Paralegal Studies Concentration (p. 141)

## Minor

- Political Science Minor (p. 142)

## Political Science (B.A.)

The curriculum for a B.A. in political science exposes majors to the key areas of the discipline— American politics and institutions, comparative politics and international relations with a special emphasis on African Politics, Political Theory and Philosophy, and Research Methods.

### Goals of the B.A. Program in Political Science

- To develop in students a substantive body of knowledge about the history and evolution of the discipline including its various approaches and methods.
- To nurture in students a specialized and thorough knowledge of American Politics, Area Studies, International Affairs, or Legal Studies.

- To help students acquire the capacity to gather and analyze primary and secondary political data, critique extant studies, to construct creative research proposals, and to craft original research.
- To encourage students to participate in service learning activities—local, national, and international—that permit access to early job placements and an appreciation for the practice of citizenship.

## Major Concentrations

The Department of Political Science offers a bachelor of arts degree in political science with two possible concentrations. Students may choose among curricula related to those concentrations or they can choose the basic curriculum for maximum flexibility.

- Basic Curriculum (p. 139)
- Legal Studies Curriculum
- Paralegal Studies Curriculum

## Major Requirements

Code	Title	Hours
PS 134	INTRO TO POLIT SCIENCE	3
PS 135	AMERICAN GOVERNMENT	3
PS 136	STATE & LOCAL GOVERNMENT	3
PS 238	INTRO TO COMPAR POLITICS	3
PS 236	POLITICAL STATISTICS	3
PS 341	African American Politics	3
PS 343	POLITICAL PHILOSOPHY	3
PS 347	Judicial Politics	3
PS 350	AME POLIT PARTIES & PRES	3
PS 351	THE AMERICAN PRESIDENCY	3
PS 431	AFRICIAN INTERNAT RELATI	3
PS 446	SCOPE AND METHODS	3
PS 447	SENIOR RESEARCH SEMINAR	3
PS 473	LEGISLATIVE POLITICS	3
PS 450	URBAN POLITICS	3
<b>Total Hours</b>		<b>45</b>

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
HIST 201	UNITED STATES HISTORY I	3
PS 134	INTRO TO POLIT SCIENCE	3
UNIV 100	UNIVERSITY SUCCESS	2
Mathematics Option		3
Social & Behavioral Sciences Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
HIST 202	UNITED STATES HISTORY II	3
PS 135	AMERICAN GOVERNMENT	3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>

### Sophomore

<b>Fall</b>		
PS 136	STATE & LOCAL GOVERNMENT	3
PS 238	INTRO TO COMPAR POLITICS	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
GEOG 105	INTRO TO CULTURAL GEOGRAPHY	3
UNIV 200	CIVIC ENGAGEMENT	1
Speech Option		3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>

### Junior

<b>Fall</b>		
ECO 211	PRINCIPLES OF MACROECONOMICS	3
PS 236	POLITICAL STATISTICS	3
PS 347	Judicial Politics	3
PS 473	LEGISLATIVE POLITICS	3
Political Science Elective		3
Philosophy Option		3
<b>Hours</b>		<b>18</b>

<b>Spring</b>		
ECO 212	PRINCIPLES OF MICROECONOMICS	3
PS 341	African American Politics	3
PS 343	POLITICAL PHILOSOPHY	3
PS 446	SCOPE AND METHODS	3
PS 450	URBAN POLITICS	3
<b>Hours</b>		<b>15</b>

### Senior

<b>Fall</b>		
PS 351	THE AMERICAN PRESIDENCY	3
PS 447	SENIOR RESEARCH SEMINAR	3
Political Science Elective		3
Political Science Elective		3
General Elective		3
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
PS 350	AME POLIT PARTIES & PRES	3
Political Science Option		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>123</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will learn how national, state, local and international governments operate in a democracy.
- Students will learn about the principles of state and local governments in the democratic system.

- Students will learn the fundamentals of state, local, and international governments.

## Political Science (B.A.) Legal Studies Concentration

Jackson State University’s legal studies program exists to engage students in the readiness process for successful law school admission and retention. The Legal Studies Curriculum introduces students to terminology, ideas, and skills related to law and the legal profession.

The curriculum has been specifically designed to enhance student readiness for law school and/other graduate study. The courses within the curriculum assist students in developing analytical and communication skills understanding the social, political, and economic contexts within which legal issues arise engaging in the meanings, values, practices, and institutions of law and legality in local, national, and international and international contexts that permit access to job placements and an appreciation for the practice of citizenship.

### Major Requirements

Code	Title	Hours
PS 134	INTRO TO POLIT SCIENCE	3
PS 135	AMERICAN GOVERNMENT	3
PS 136	STATE & LOCAL GOVERNMENT	3
PS 236	POLITICAL STATISTICS	3
PS 238	INTRO TO COMPAR POLITICS	3
PS 320	LEGAL RESEARCH AND WRITING	3
PS 341	African American Politics	3
PS 343	POLITICAL PHILOSOPHY	3
PS 347	Judicial Politics	3
PS 423	CONSTITUTIONAL LAW I	3
PS 432	INTRODUCTION TO LAW I	3
PS 446	SCOPE AND METHODS	3
PS 447	SENIOR RESEARCH SEMINAR	3
PS 450	URBAN POLITICS	3
PS 473	LEGISLATIVE POLITICS	3
PS 484	INTER-GOVERNMENTAL RELATIONS	3
Political Science Elective		3
Legal Studies Elective		3
<b>Total Hours</b>		<b>54</b>

### Concentration

Code	Title	Hours
PS 236	POLITICAL STATISTICS	3
PS 320	LEGAL RESEARCH AND WRITING	3
PS 343	POLITICAL PHILOSOPHY	3
PS 347	Judicial Politics	3
PS 376	LSAT SURVEY	3
PS 423	CONSTITUTIONAL LAW I	3
PS 432	INTRODUCTION TO LAW I	3
PS 433	INTRODUCTION TO LAW II	3
PS 473	LEGISLATIVE POLITICS	3
PS 346	CIVIL RIGHTS & LIBERTIES	3

or PS 424	CONSTITUTIONAL LAW II	
<b>Total Hours</b>		<b>30</b>
<b>Course</b>	<b>Title</b>	<b>Hours</b>
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
HIST 201	UNITED STATES HISTORY I	3
PS 134	INTRO TO POLIT SCIENCE	3
Mathematics Option		3
Social & Behavioral Sciences Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
HIST 202	UNITED STATES HISTORY II	3
PS 135	AMERICAN GOVERNMENT	3
Natural Sciences Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
PS 136	STATE & LOCAL GOVERNMENT	3
PS 238	INTRO TO COMPAR POLITICS	3
Social & Behavioral Sciences Option		3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
UNIV 200	CIVIC ENGAGEMENT	1
GEOG 105	INTRO TO CULTURAL GEOGRAPHY	3
Speech Option		3
Natural Sciences Option		3
General Elective		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
ECO 211	PRINCIPLES OF MACROECONOMICS	3
PS 236	POLITICAL STATISTICS	3
PS 320	LEGAL RESEARCH AND WRITING	3
PS 347	Judicial Politics	3
PS 432	INTRODUCTION TO LAW I	3
Philosophy Option		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
ECO 212	PRINCIPLES OF MICROECONOMICS	3
PS 341	African American Politics	3
PS 343	POLITICAL PHILOSOPHY	3
PS 446	SCOPE AND METHODS	3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
PS 423	CONSTITUTIONAL LAW I	3
PS 447	SENIOR RESEARCH SEMINAR	3
PS 473	LEGISLATIVE POLITICS	3
PS 484	INTER-GOVERNMENTAL RELATIONS	3

General Elective	3
<b>Hours</b>	<b>15</b>
<b>Spring</b>	
PS 450 URBAN POLITICS	3
Legal Studies Elective	3
General Elective	3
General Elective	3
<b>Hours</b>	<b>12</b>
<b>Total Hours</b>	<b>123</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will learn how national, state, local and international governments operate in a democracy.
- Students will learn about the principles of state and local governments in the democratic system.
- Students will learn the fundamentals of state, local, and international governments.

## Political Science (B.A.) Paralegal Studies Concentration

The Paralegal Studies Concentration is an online concentration that provides a pathway for aspiring paralegals and will complement the Legal Studies Concentration. Many students can use this concentration as a pathway to work in the legal profession, while others can use the certificate as a pathway to law school. Paralegal Studies introduce students to terminology, ideas, and skills related to law and the legal profession. The curriculum is designed to enhance student readiness for employment as a paralegal or administrative professional. The courses within the curriculum assist students in developing the necessary skills to perform in government or private businesses efficiently and effectively.

### Major Requirements

Code	Title	Hours
PS 134	INTRO TO POLIT SCIENCE	3
PS 135	AMERICAN GOVERNMENT	3
PS 136	STATE & LOCAL GOVERNMENT	3
PS 236	POLITICAL STATISTICS	3
PS 238	INTRO TO COMPAR POLITICS	3
PS 320	LEGAL RESEARCH AND WRITING	3
PS 341	African American Politics	3
PS 343	POLITICAL PHILOSOPHY	3
PS 347	Judicial Politics	3
PS 351	THE AMERICAN PRESIDENCY	3
PS 432	INTRODUCTION TO LAW I	3
PS 446	SCOPE AND METHODS	3
PS 447	SENIOR RESEARCH SEMINAR	3
PS 450	URBAN POLITICS	3
PS 484	INTER-GOVERNMENTAL RELATIONS	3

PS 490	Computer-Assisted Research in the Legal Environment	3
PS 491	Law Office Management and Technology	3
PS 492	Trial Preparation	3
PS 493	eDiscovery for Paralegals	3
PS 494	Paralegal Internship	3

**Total Hours 60**

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
HIST 201	UNITED STATES HISTORY I	3
PS 134	INTRO TO POLIT SCIENCE	3
UNIV 100	UNIVERSITY SUCCESS	2
Mathematics Option		3
Natural Science Option		3
<b>Hours</b>		<b>17</b>

<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
HIST 202	UNITED STATES HISTORY II	3
PS 135	AMERICAN GOVERNMENT	3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>

<b>Sophomore</b>		
<b>Fall</b>		
PS 136	STATE & LOCAL GOVERNMENT	3
PS 238	INTRO TO COMPAR POLITICS	3
Natural Science Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
GEOG 105	INTRO TO CULTURAL GEOGRAPHY	3
UNIV 200	CIVIC ENGAGEMENT	1
Speech Option		3
Humanities & Fine Arts Option		3
Pathway Option		3
General Elective		3
<b>Hours</b>		<b>16</b>

<b>Junior</b>		
<b>Fall</b>		
ECO 211	PRINCIPLES OF MACROECONOMICS	3
PS 236	POLITICAL STATISTICS	3
PS 320	LEGAL RESEARCH AND WRITING	3
PS 347	Judicial Politics	3
PS 432	INTRODUCTION TO LAW I	3
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
ECO 212	PRINCIPLES OF MICROECONOMICS	3
PS 341	African American Politics	3
PS 343	POLITICAL PHILOSOPHY	3
PS 446	SCOPE AND METHODS	3
PS 490	Computer-Assisted Research in the Legal Environment	3
PS 492	Trial Preparation	3
<b>Hours</b>		<b>18</b>

Senior		
Fall		
PS 351	THE AMERICAN PRESIDENCY	3
PS 447	SENIOR RESEARCH SEMINAR	3
PS 484	INTER-GOVERNMENTAL RELATIONS	3
PS 491	Law Office Management and Technology	3
<b>Hours</b>		<b>12</b>
Spring		
PS 450	URBAN POLITICS	3
PS 493	eDiscovery for Paralegals	3
PS 494	Paralegal Internship	3
Philosophy Option		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will learn how national, state, local, and international governments operate in a democracy.
- Students will learn about the principles of state and local governments in the democratic system.
- Students will learn the fundamentals of state, local, and international governments

## Political Science Minor

The minor in Political Science requires a minimum of 18 credit hours in Political Science including:

Code	Title	Hours
PS 134	INTRO TO POLIT SCIENCE	3
PS 135	AMERICAN GOVERNMENT	3
PS 136	STATE & LOCAL GOVERNMENT	3
Nine (9) additional hours <sup>1</sup>		9
<b>Total Hours</b>		<b>18</b>

<sup>1</sup> May be distributed according to the student's desires or in consultation with their major advisor.

## Department of Psychology

Dr. Kaye Sly  
Interim Department Chair  
kaye.f.sly@jsums.edu  
601-979-4005

## Faculty of the Department

D. Bishop McLin; K. Sly; Assistant Professors: J. Broussard, F. Brown, K. Hudson, R. Liu-Pham, C. Moreland

## Introduction/Mission

The mission of the Undergraduate Major in the Psychology Department is to expose students to the breadth and depths of the various fields of psychology. Students are encouraged and taught to think critically about psychological issues and to understand the value of empirical investigation. The department seeks to foster each student's appreciation for the field of psychology and its applications to individual and social problems. The department is dedicated to high standards of original inquiry and personal growth. Students are taught that sound research and scholarship serve to expand knowledge and improve the quality of peoples' lives. Our program provides students with the education needed to enter a variety of careers or to pursue graduate work in psychology or related fields.

## Objectives

The objectives of the Department of Psychology are for:

- students to develop an understanding of the field of psychology and its scientific nature by studying its history, methodology, and contents;
- students to acquire the capacity to critically evaluate new developments within the field;
- students to be qualified to enter the job market and/or to successfully pursue graduate study.
- departmental faculty to function as effective teachers by providing carefully prepared lectures, assignments, and examinations;
- departmental faculty to serve as effective role models by maintaining high standards of professional and personal conduct;
- departmental faculty to contribute to the advancement of knowledge by conducting meaningful research and publishing the results;
- departmental faculty to be actively engaged in service to the University and the community.

## Admission Criteria

There are no additional admission criteria for first-time freshmen, but to transfer to Psychology from another major or university, the student must have a GPA of 2.5 or higher.

## Other Requirements/Offerings

- Earn a 2.5 GPA in Psychology courses to qualify for graduation
- Pass the Departmental Exam
- Earn at least a "C" in PSY 111 INTRODUCTN TO PSYCHOLOGY prior to enrolling in PSY 112 INTRODUCTN TO PSYCHOLOGY
- Earn at least a "C" in PSY 112 INTRODUCTN TO PSYCHOLOGY prior to enrolling in any 200 level and above Psychology courses.

## Bachelor

- Psychology (B.S.) (p. 143)

## Minor

- Psychology Minor (p. 143)

# Psychology (B.S.)

## Major Requirements

Code	Title	Hours
PSY 111 & PSY 112	INTRODUCTN TO PSYCHOLOGY and INTRODUCTN TO PSYCHOLOGY	6
PSY 211 & PSY 212	STATISTICS I and STATISTICS II	6
PSY 214	DEVELOPMENTAL PSYCHOLOGY	3
PSY 216	ABNORMAL PSYCHOLOGY	3
PSY 310	PERSONALITY	3
PSY 314	SOCIAL PSYCHOLOGY	3
PSY 315	PHYSIOLOGICAL PSYCHOLOGY I	3
PSY 411	LEARNING	3
PSY 415	EXPERIMENTAL PSYCHOLOGY	4
Psychology Electives		12
<b>Total Hours</b>		<b>46</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
ENG 104 or ENG 111 or ENG 103	COMPOSITION I or COMPOSITION & LITERATURE FOR L or English Composition I with Co-requisite Support	3
MATH 114	Quantitative Reasoning	3
PSY 111	INTRODUCTN TO PSYCHOLOGY	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
PSY 112	INTRODUCTN TO PSYCHOLOGY	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
PSY 211	STATISTICS I	3
PSY 214	DEVELOPMENTAL PSYCHOLOGY	3
Natural Science Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENG 213	PROFESSIONAL WRITING	3
PHIL 301	INTRODUCTN TO PHILOSOPHY	3
PSY 212	STATISTICS II	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
General Elective		3
<b>Hours</b>		<b>16</b>

<b>Junior</b>		
<b>Fall</b>		
PSY 216	ABNORMAL PSYCHOLOGY	3
PSY 315	PHYSIOLOGICAL PSYCHOLOGY I	3
Psychology Elective		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>12</b>
<b>Spring</b>		
PSY 310	PERSONALITY	3
PSY 314	SOCIAL PSYCHOLOGY	3
Speech Option		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
PSY 411	LEARNING	3
Psychology Elective		3
Psychology Elective		3
General Elective (300 Level or Above)		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
PSY 415	EXPERIMENTAL PSYCHOLOGY	4
Psychology Elective		3
General Elective (300 Level or Above)		3
General Elective		3
<b>Hours</b>		<b>13</b>
<b>Total Hours</b>		<b>120</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will be able to recognize and recall major constructs, theoretical perspectives, empirical research findings, and historical trends in psychology.
- Students will develop skills in analytical reasoning, scientific inquiry, critical thinking, and the use of the scientific methods in investigating behaviors and mental processes through various research experiences.
- Students will demonstrate effective oral and written communication skills in their discussion of various psychological topics and perspectives.
- Students will be able to analyze psychological principles and ideas associated with multicultural competency, ethical conduct and social responsibility at a developmentally appropriate level.

## Psychology Minor

The minor in Psychology requires 21 credit hours including the following courses, some of which have additional prerequisites.

Code	Title	Hours
PSY 201	GENERAL PSYCHOLOGY	3
PSY 211	STATISTICS I <sup>1</sup>	3



PSY 214	DEVELOPMENTAL PSYCHOLOGY <sup>2</sup>	3
PSY 216	ABNORMAL PSYCHOLOGY <sup>3</sup>	3
PSY 315	PHYSIOLOGICAL PSYCHOLOGY I <sup>4</sup>	3
300-400 Level Psychology Course <sup>5</sup>		3
300-400 Level Psychology Course <sup>5</sup>		3
<b>Total Hours</b>		<b>21</b>

<sup>1</sup> Pre-requisites: PSY 111 INTRODUCTN TO PSYCHOLOGY or PSY 201 GENERAL PSYCHOLOGY and MATH 111 COLLEGE ALGEBRA.

<sup>2</sup> Pre-requisites: PSY 111 INTRODUCTN TO PSYCHOLOGY or PSY 201 GENERAL PSYCHOLOGY.

<sup>3</sup> Pre-requisites: PSY 111 INTRODUCTN TO PSYCHOLOGY or PSY 201 GENERAL PSYCHOLOGY and PSY 214 DEVELOPMENTAL PSYCHOLOGY.

<sup>4</sup> Pre-requisites: PSY 111 INTRODUCTN TO PSYCHOLOGY or PSY 201 GENERAL PSYCHOLOGY and PSY 214 DEVELOPMENTAL PSYCHOLOGY, BIO 111 GENERAL BIOLOGY, BIOL 111 GENERAL BIOLOGY LAB, BIO 112 GENERAL BIOLOGY, BIOL 112 GENERAL BIOLOGY LAB)

<sup>5</sup> Must take pre-reqs. as stated in the course description.

Students must have at least a 2.50 GPA and must first submit a letter requesting approval to obtain a Minor in Psychology that will include a signature from an academic advisor.

## Department of Speech Communication and Theatre

Dr. Mark G. Henderson  
Interim Chair

mark.g.henderson@jsums.edu

Phone: 601.979.2872 Location: Rose E. McCoy Auditorium

Faculty:

Theatre

Yolanda Williams

Speech

Mark Henderson

Randrika Henderson

Margaret Anderson

Adjuncts

Clyde Okojie

Monica Flippin-Wynn

Tiffany Williams

Nadia Bodie-Smith

### Introduction/Mission

The Department of Speech Communication and Theatre evidences effective communication as the key to our encounters and interactions. With this philosophy, the department is dedicated to preparing its students to become significant contributors to mankind. Our goals are achieved through student organizations, co-curricular activities, and state-of-the-art facilities and equipment that enhance each student's experience in the department and university.

The mission of the Theatre Program at Jackson State University is to train students to assume

careers as professional artists, managers, designers, and/or technicians in theatre and related disciplines by stressing character, teamwork, leadership, and service.

### Objectives:

The Speech Communication concentration:

- helps students understand how communication principles apply to a broad range of contexts, e.g., organizations, courtrooms, political campaigns, cross-cultural exchanges, social movements.
- helps students cultivate highly developed skills in individual oral and written expression, in critical thinking, in group discussion and problem solving, and in conceptualizing the function of communication and performance.
- assists students in developing talents and knowledge related to leadership and public communication roles that may serve them well in whatever personal, community, and professional directions they choose to pursue.

The Theatre concentration:

- helps students understand basic production processes such as acting, directing, theatre management, costuming, stage lighting, stage design, as well as basic technical operation related to production.
- helps students become familiar with the historical and cultural dimensions of theatre, including works of leading playwrights, actors, directors, and designers both past and present.
- assists students in developing talents and knowledge related to leadership and professional roles that may serve them well in whatever personal, community, and professional directions they choose to pursue.

- Speech BA (Theatre Concentration) (p. 144)

- Speech BS (Speech Communication) (<https://jsums-public.courseleaf.com/undergraduate/college-liberal-arts/departement-english-foreign-languages-speech-communication/speech-communication-program/>)

- Theatre Minor (<https://jsums-public.courseleaf.com/undergraduate/college-liberal-arts/departement-english-foreign-languages-speech-communication/speech-communication-minor/>)

## Speech (B.A.) Theatre Concentration

The Theatre concentration of the B.A. in Speech is committed to providing students with the fundamental knowledge of communication, performance and design through research and practical application. We encourage the development of student creativity and oral competency in communication while enhancing professional presentation skills. The department fosters a safe, nurturing environment of creativity, collaboration and experimentation, while providing exceptional instruction in communication, technical design and stage performance. We utilize traditional and nontraditional teaching methods, ultimately leading to educational success and personal/professional advancement.

## Major Requirements

Code	Title	Hours
DR 101	PRODUCTION LABORATORY	1
DR 102	PRODUCTION LABORATORY	1
DR 103	PRODUCTION LABORATORY	1-3
DR 104	PRODUCTION LABORATORY	1

DR 105	PRODUCTION LABORATORY	1
DR 106	PRODUCTION LABORATORY	1
DR 201	INTRODUCTION TO THEATRE	4
& DRL 204	and INTRO TO TECHNCL PRODUC LAB	
DR 204	INTRO TO TECHNCL PRODUCTION	3
DR 205	ADVANCED ACTING	3
DR 306	INTRO TO SCENIC DESIGN	3
DR 310	DEVLMT OF DRAMATIC ART I	3
DR 311	DEV OF DRAMATIC ART II	3
DR 313	SUR OF BLK DRAMA&THEATRE	3
DR 314	FUNDAMENTALS OF PLAYWRITING	3
DR 410	TECHNIQUES IN DIRECTING	3
DR 416	INT TO STAGE MKUP & CSTU	3
DR 421	CREATIVE DRAMATICS	3
DR 414	STAGE LIGHTING DESIGN	3
DR 419	DRAMATIC CRITICISM	3
DR 425	PLAY PRODUCTION	6
DR 426	INDEPENDENT STUDY	3
PE 113	BEGINNING MODERN DANCE	1
SPCH 214	INTERPERSONAL COMMUNICATIONS	3
SPCH 215	TRAINING THE SPEAKING VOICE	3
SPCH 216	PUBLIC SPEAKING	3
SPCH 499	SEMINAR IN COMMUNICATION	3

**Total Hours****68-70**

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
DR 101	PRODUCTION LABORATORY	1
DR 201	INTRODUCTION TO THEATRE	3
MATH 114	Quantitative Reasoning	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
DR 202	FUNDAMENTALS OF ACTING I	3
DR 102	PRODUCTION LABORATORY	1
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
PE 113	BEGINNING MODERN DANCE	1
SPCH 214	INTERPERSONAL COMMUNICATIONS	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Sophomore</b>		
<b>Fall</b>		
DR 103	PRODUCTION LABORATORY	2
DR 204 & DRL 204	INTRO TO TECHNCL PRODUCTION and INTRO TO TECHNCL PRODUC LAB	4
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3

Pathway Option		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
DR 104	PRODUCTION LABORATORY	1
DR 205	ADVANCED ACTING	3
UNIV 200	CIVIC ENGAGEMENT	1
Natural Science Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>14</b>
<b>Junior</b>		
<b>Fall</b>		
DR 105	PRODUCTION LABORATORY	1
DR 306	INTRO TO SCENIC DESIGN	3
DR 310	DEVLMT OF DRAMATIC ART I	3
DR 410	TECHNIQUES IN DIRECTING	3
SPCH 216	PUBLIC SPEAKING	3
<b>Hours</b>		<b>13</b>
<b>Spring</b>		
DR 106	PRODUCTION LABORATORY	1
DR 311	DEV OF DRAMATIC ART II	3
DR 313	SUR OF BLK DRAMA&THEATRE	3
DR 314	FUNDAMENTALS OF PLAYWRITING	3
DR 416	INT TO STAGE MKUP & CSTU	3
SPCH 215	TRAINING THE SPEAKING VOICE	3
<b>Hours</b>		<b>16</b>
<b>Senior</b>		
<b>Fall</b>		
DR 414	STAGE LIGHTING DESIGN	3
DR 421	CREATIVE DRAMATICS	3
SPCH 499	SEMINAR IN COMMUNICATION	3
Drama Elective		3
<b>Hours</b>		<b>12</b>
<b>Spring</b>		
DR 419	DRAMATIC CRITICISM	3
DR 425	PLAY PRODUCTION	6
DR 426	INDEPENDENT STUDY	3
Drama Elective		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will demonstrate proficiency in the application of the specific communication principles of clarity, concision, ability to be compelling, accuracy, and awareness of the audience in professional settings (e.g., community organizations, legal and political environments, cross-cultural exchanges, social movements).
- Students will demonstrate proficiency in oral and written communication for scholarly and creative purposes.
- Students will be able to analyze and apply various acting theories and techniques based on the system of realistic acting to provide

proper preparation and character development for professional environments.

# Speech (B.S.) Speech Communication

## Objectives

The area of Speech Communication at Jackson State University has established the following major objectives:

- To provide comprehensive training in communicative arts and science.
- To develop comprehensive aesthetic awareness and interaction among students, faculty, and community.
- To present forensic activities.
- To offer practical communicative experiences through laboratory activities, problem solving exercises, internships, and independent study.

## Major Requirements

Code	Title	Hours
SPCH 214	INTERPERSONAL COMMUNICATIONS	3
SPCH 215	TRAINING THE SPEAKING VOICE	3
SPCH 216	PUBLIC SPEAKING	3
SPCH 217	ORAL INTERPRETATION	3
SPCH 218	LISTENING	3
SPCH 300	INTRO TO ORGANZTNL COMMU	3
SPCH 335	PERSUASION	3
SPCH 337	ANALYS OF COMMUNICATION	3
SPCH 338	NONVERBAL COMMUNICATION	3
SPCH 339	INTERCULTURAL COMMUNCATN	3
SPCH 430	SMALL GROUP DISCUSSION	3
SPCH 496	HIST & DEV. OF BLK PROTEST RHE	3
SPCH 497	COMMUNICATION PROJECT	6
or SPCH 498	COMMUNICATION INTERNSHIP	
SPCH 499	SEMINAR IN COMMUNICATION	3
SPED 466	INTRO TO SIGN LANGUAGE	3
<b>Total Hours</b>		<b>48</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 114	Quantitative Reasoning	3
SPCH 201	SPEECH ARTS	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Art Option		3
Natural Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
SPCH 214	INTERPERSONAL COMMUNICATIONS	3

Humanities & Fine Arts Option	3
Natural Science Option	3
Pathway Option	3

**Hours 15**

### Sophomore

<b>Fall</b>		
SPCH 215	TRAINING THE SPEAKING VOICE	3
SPCH 216	PUBLIC SPEAKING	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3

**Hours 15**

### Spring

ENG 205	WORLD LITERATURE I	3
SPCH 217	ORAL INTERPRETATION	3
SPCH 218	LISTENING	3
UNIV 200	CIVIC ENGAGEMENT	1
Social & Behavioral Science Option		3
Pathway		3

**Hours 16**

### Junior

<b>Fall</b>		
SPCH 335	PERSUASION	3
SPCH 337	ANALYS OF COMMUNICATION	3
PSY 211 or JMS 401	STATISTICS I or RESCH METHDS IN MASS COM	3
MFL 101 Modern Foreign Language I <sup>1</sup>		3
General Elective		3

**Hours 15**

### Spring

SPCH 300	INTRO TO ORGANZTNL COMMU	3
SPCH 338	NONVERBAL COMMUNICATION	3
SPCH 339	INTERCULTURAL COMMUNCATN	3
DR 201	INTRODUCTION TO THEATRE	3
MFL 102 Modern Foreign Language II <sup>1</sup>		3

**Hours 15**

### Senior

<b>Fall</b>		
SPED 466	INTRO TO SIGN LANGUAGE	3
SPCH 430	SMALL GROUP DISCUSSION	3
SPCH 499	SEMINAR IN COMMUNICATION	3
General Elective		3

**Hours 12**

### Spring

SPCH 496	HIST & DEV. OF BLK PROTEST RHE	3
SPCH 497 or SPCH 498	COMMUNICATION PROJECT or COMMUNICATION INTERNSHIP	6
General Elective		3
General Elective		3

**Hours 15**

**Total Hours 120**

<sup>1</sup> Students who have completed two years of a single foreign language in high school with a grade of 'C' are exempt from foreign language requirements; however, the student must take 6 hours of general electives to replace the foreign language credits.

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

## Student Learning Outcomes

- Students will demonstrate knowledge of communication theory and application
- Students will practice critical thinking to develop innovative and well-founded perspectives related to the students' emphases
- Students will demonstrate the ability to apply communication concepts and skills to both case studies and real-world circumstances
- Students will complete an internship in Speech/Communication Studies

## Speech Communication Minor

The minor requires a minimum of 21 semester hours:

Code	Title	Hours
SPCH 214	INTERPERSONAL COMMUNICATIONS	3
SPCH 215	TRAINING THE SPEAKING VOICE	3
SPCH 216	PUBLIC SPEAKING	3
SPCH 217	ORAL INTERPRETATION	3
Select one of the following:		3
DR 201	INTRODUCTION TO THEATRE	
DR 202	FUNDAMENTALS OF ACTING I	
DR 421	CREATIVE DRAMATICS	
2 SPCH Electives		6
<b>Total Hours</b>		<b>21</b>

# College of Science, Engineering and Technology

Dr. Wilbur L. Walters, Jr.

Dean

wilbur.l.walters@jsums.edu (wilbur.l.walters@jsums.edu)

(601) 979-2153

## Introduction

The College of Science, Engineering and Technology is committed to implementing the University's urban mission and focusing its intellectual expertise, and other resources on improving the quality of life for students, the local, state, national and the global community. A fundamental objective of the College is the focus on quality instruction and engagement in research and experiential experiences. We believe such exposure embellishes the development of the skills and knowledge to prepare students for the workforce and/or graduate studies.

## Mission

The mission of the College of Science, Engineering and Technology (CSET) at Jackson State University is to provide an innovative program of excellence in education, research, public and professional services at both the undergraduate and graduate levels. CSET promotes the production of highly competitive graduates as judged by the highest academic standards in the fields of science, technology, engineering, and mathematics (STEM). The College also endeavors to be recognized both nationally and internationally as preparers of outstanding men and women scientist. CSET is committed to implementing the University's mission to ensure that students are technologically advanced, ethical, global leaders who think critically and address societal problems and compete effectively.

## Goals and Objectives

- To provide high quality, efficient and cost-effective STEM educational programs.
- To strengthen the research agenda of the College through faculty support, professional development, and student research/experiential initiatives.
- To provide high quality STEM outreach services to the local, state, national, and international community.

## College Accreditations

- Chemistry (B.S.) – American Chemical Society
- Civil Engineering and Environmental (B.S.) - Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc.
- Computer Engineering (B.S.) - Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc.
- Computer Science (B.S.) - Computing Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc.
- Electrical Engineering (B.S.) - Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc.
- Industrial Technology (B.S.) – Association of Technology, Management, and Applied Engineering

## College Description

The College of Science, Engineering and Technology (CSET), comprised of 7 Departments including the Department of Aerospace Science (Air Force ROTC); Department of Biology; Department of Chemistry, Physics and Atmospheric Sciences; Department of Civil & Environmental Engineering and Industrial Systems & Technology; Department of Electrical & Computer Engineering and Computer Science; Department of Mathematics & Statistical Sciences; and Department of Urban & Regional Planning, is committed to producing highly competitive science, technology, engineering and mathematics (STEM) graduates.

CSET is constantly redefining itself and is confident that along with its dedicated faculty and staff, strong emphasis on research, continued commitment to recruiting highly motivated students and continued growth in new innovative programs, will have an inspiring effect on our graduates.

## College Departments

- Department of Aerospace Science (Air Force ROTC)
- Department of Biology
- Department of Chemistry
- Physics and Atmospheric Sciences
- Department of Civil & Environmental Engineering and Industrial Systems & Technology
- Department of Electrical & Computer Engineering and Computer Science
- Department of Mathematics & Statistical Sciences
- Department of Urban & Regional Planning

## Centers

Interdisciplinary Center for Nanotoxicity - The National Science Foundation-sponsored Interdisciplinary Center for Nanotoxicity (ICN) is an interdisciplinary initiative of researchers focused on the development and production of nanomaterials and investigations of their toxicity.

Institute for Multimodal Transportation -The Institute for Multimodal Transportation (IMTRANS) is an umbrella Institute to formally recognize the substantial Multimodal Transportation outreach, research, and education initiatives at JSU. IMTRANS currently includes the Mississippi Summer Transportation Institute (MSTI), Southeastern Transportation Research, Innovation, Development and Education (STRIDE) Center, and the Maritime Transportation Research and Education Center (MarTREC).

The National Institutes of Health Research Centers in Minority Institutions (NIH-RCMI)-Center for Health Disparities Research (CHDR). The Center for Health Disparities Research focuses on enabling JSU researchers to use innovative approaches for examining disease and developing novel prevention and treatment strategies for important health issues of concern to minorities and underserved communities.

## Resources

The REGALS program supports the College in the achievement of developing and implementing strategic activities that enhance the successful matriculation and graduation of science, engineering, technology, and mathematics (STEM) students. The Scholars Academy Office is actively engaged in students' recruitment and retention, advising, tutoring, financial support, academic year research placement, and experiential learning through summer research internships. In addition, the Scholars Academy is also responsible for engaging STEM students

in clubs, organized seminars, distinguished speaker's series, workshops, conferences, science and engineering fairs, community services, students' organizations, and international programs. Furthermore, the Scholars Academy actively work with STEM students to develop their soft skills in the specific areas of learning style, time management, study habits, oral and poster presentation skills, and critical thinking skills. For more information, contact: (601) 979-1604.

- Department of Aerospace Studies (p. 149)
- Department of Biology (p. 151)
- Department of Chemistry, Physics and Atmospheric Sciences (p. 160)
- Department of Civil and Environmental Engineering and Industrial Systems and Technology (p. 179)
- Department of Electrical and Computer Engineering and Computer Science (p. 188)
- Department of Mathematics and Statistical Sciences (p. 195)

## Department of Aerospace Studies

Lt. Col. Samuel L. Williams  
 Department Chair/ Commander  
 Jackson State University, J.Y. Woodard Bldg.  
 1400 John R. Lynch St, Jackson, MS 39217

## Faculty of the Department

Lt. Col. Jarreau Jones, TSgt Reyna Northcutt, and TSgt Aric Bernard

## Objectives

The Aerospace Studies Program provides an opportunity for students to earn a commission in the United States Air Force while working toward an academic degree simultaneously. Skills that are the cornerstone of leadership excellence such as confidence, self-esteem, motivation, leadership and fellowship, creative thinking, self-discipline, team building, and decision-making are taught in the Air Force Reserve Officers Training Corps (AFROTC) Program.

Upon completing the AFROTC Program and all requirements for an academic degree, students can achieve their goal of a degree in their chosen academic field and a presidential commission as an Air Force Second Lieutenant. The objectives of the program are:

- To produce the future officer leadership of the U.S. Air Force.
- To provide an introduction to the Air Force Reserve Officers Training Corps and the Air Force, how they're organized, how they work.
- To provide first-year cadets an informative and motivational program designed to recruit, retain, and familiarize them with the Air Force way of life and foster leadership, followership, teamwork, and esprit de corps.
- To provide cadets returning from field training sufficient opportunities to demonstrate and develop the leadership and management skills needed to successfully function as an active duty officer.
- To provide cadets to be commissioned additional opportunities to demonstrate and develop the leadership and management skills needed to successfully function as an active duty officer and to adequately prepare them to transition from the ROTC environment to active duty.

The topics covered include the history and structure of the US Air Force, the Air Force's capabilities, career opportunities, benefits, Air

Force installations, core values, leadership, managing diversity, team building, communications skills, general aspects of air and space power through a historical perspective, the National Security process, regional studies, advanced leadership ethics, and Air Force doctrine. A separate Leadership Laboratory is a mandatory requirement for all cadets.

The Air Force ROTC Program is divided into the General Military Course (GMC) during the freshman and sophomore years and the Professional Officer Course (POC) for the remaining two years of college. Four-year cadets participate in a four-week training period during the summer between their sophomore and junior years.

### MS 101 FUND OF LDRSHP & MGNT I (1 Hour)

Co-requisite: MS 103. Introduction to officership with emphasis on military customs and traditions, time management, stress management, and physical fitness. Introduction to principles of leadership with emphasis on character and competence, values and ethics, and values of the U.S. Army.

### MS 102 FUND OF LDRSHP & MGNT II (1 Hour)

Co-requisite: MS 104. Builds upon leadership principles emphasizing oral and written communications, the problem-solving process, goal setting, active listening, assertiveness skills, counseling methods and nutrition. Builds upon principles of officership with emphasis on life the U.S. Army.

### MS 103 LEADERSHIP LABORATORY (1 Hour)

Leadership Lab.

### MS 104 LEADERSHIP LABORATORY (1 Hour)

Leadership Lab.

### MS 201 INDIVIDUAL LEADERSHIP STUDIES (2-3 Hours)

Co-requisite: MS 203. Building on leadership principles with emphasis on communication, personal development, physical well-being, team building, problem solving, and reasoning. Introduction to the ROTC Distance Learning Enhancement Skills Training Program with special emphasis on math, English, and reading skills. COMPRESSION COURSE (3): Co-requisite: MS 203. May substitute for MS 101 and 201 by compressing them together. Course is designed for sophomore student who has not had previous military science classes, basic training, or high school JROTC.

### MS 202 LEADERSHIP AND TEAMWORK (2 Hours)

Co-requisite: MS 204. Building of leadership principles with emphasis on communication, personal development, physical well-being, team building, problem solving, and reasoning. Continued development of oral and written communication skills. COMPRESS COURSE (3 hrs): Co-requisite: MS 204. May substitute for MS 102 and 202 by compressing them together. Course is designed for sophomore student who has not had previous military science classes, basic training, or high school JROTC.

### MS 203 LEADERSHIP LABORATORY (1 Hour)

Leadership Lab.

### MS 204 LEADERSHIP LABORATORY (1 Hour)

Leadership Lab.

**MS 300 LEADERSHIP TRAINING CAMP (2 Hours)**

Prerequisite: Students must have minimum of 2 years of college remaining.

ROTC Basic Camp is a six-week summer training and evaluation class conducted on an active Army base. Students learn fundamental military skills and develop the ability to lead others. Students earn approximately \$761 while learning fundamental leadership skills with hundreds of other college students from universities throughout the United States and Puerto Rico. This is a substitute course for MS 100 and 200 level courses. Qualifies students for MS 300 level courses.

**MS 301 LEADERSHIP AND PROBLEM SOLVING (3 Hours)**

Introduction to the Leadership Development Program and Self Assessment. Builds upon leadership principles with emphasis on physical fitness, wellness, nutrition, and training a team. Develops Officership focusing on tactics, the principles of war, and offensive and defensive operations utilizing tactical analysis case studies. Develops Officership with emphasis on the problem solving process utilizing the Troop Leading procedures, Officer duties, and the role and organization of the Army values, spiritual needs, consideration of others, and ethical decision making. Qualified Students may receive up to \$3,600 stipend annually. Course includes mandatory field training exercises.

**MS 302 LEADERSHIP AND ETHICS (3 Hours)**

A continuation of MS 301, where Students study, practice, and apply the fundamentals of Army leadership, Officership, Army values and ethics, personal development, and small unit tactics at the patrol/platoon level. At the conclusion of this course, students will be capable of planning, coordinating, navigating, motivating and leading a 24-person patrol in the execution of a tactical mission during a classroom practical exercise, a leadership lab, or during a situational training exercise (STX) in a field environment. Course includes instruction in platoon operations, stability and support operations, and garrison orders. Participation in leadership lab is required.

**MS 303 LEADERSHIP LABORATORY (1 Hour)**

Leadership Lab.

**MS 304 LEADERSHIP LABORATORY (1 Hour)**

Leadership Lab.

**MS 400 LDRSHIP DVLPMNT & ASSESMT CAMP (3 Hours)**

LDAC is a six-week summer training and evaluations class conducted on an Active Army base. Students must attend LDAC during the summer upon completion of MS 302. Students are placed in leadership positions and evaluated on their ability to plan, direct, and execute tasks while operating in challenging and stressful environments. Student will earn approximately \$800 for attendance at LDAC.

**MS 401 ADAPTIVE LEADERSHIP (3 Hours)**

Prepares student for commissioning as a Second Lieutenant in the United States Army by focusing on career choices, life in the Army, training the force, mission-essential task list development, training execution and assessment, active listening and feedback, personal and developmental counseling, stress management, social exchange theory, expectancy theory, organizational systems and culture and organizational change culminating in a leadership simulation practical exercise. Qualified students may receive up to \$4,000 stipend annually. Course includes mandatory field training exercises.

**MS 402 OFFICERSHIP (3 Hours)**

Comprehensive senior leadership project that focuses on values and ethics emphasizing assessment, establishment, and improvement of the ethical climate, the foundation, regulations, and codes of military law, and the law of war, the tactical, operational, and strategic levels of war, military operations other than war, personnel administration, maintenance and supply management financial planning, counseling practicum, leadership lessons and developing a Leadership Vision. Qualified students may receive up to \$4,000 stipend annually. Course includes mandatory field training exercises.

**MS 403 LEADERSHIP LABORATORY (1 Hour)**

Leadership Lab.

**MS 404 LEADERSHIP LABORATORY (1 Hour)**

Leadership Lab.

**MS 450 IND STUDY (THE ARMY PROFESSION (3 Hours)**

Comprehensive senior leadership project that focuses on the Army Profession and the Army Ethic. It will expand the discussion on the Army Profession's dual character as a military department of the United States Government and, more importantly, a military profession; identify two mutually supportive communities of practice of the profession: the Profession of Arms (Regular Army, Army National Guard, and Army Reserve forces) and the Army Civilian Corps; and introduce the five essential characteristics that legitimize the Army as a profession: trust, military expertise, honorable service, esprit de corps, and stewardship of the profession. The course will define membership and certification of Army professionals in competence, character, and commitment. It will describe Army culture, describe the Army Ethic, and lay the groundwork for developing the moral identity of the Army Profession and its professionals. Course includes mandatory field training exercises.

## Aerospace Studies

### Major Requirements

Code	Title	Hours
AS 101 & ASL 101	HERITAGE AND VALUES I and LEADERSHIP LABORATORY I	2
AS 102 & ASL 102	HERITAGE AND VALUES II and LEADERSHIP LABORATORY II	2
AS 201 & ASL 201	TEAM & LDRSP FUNDAMENTALS I and LEADERSHIP LABORATORY I	2
AS 202 & ASL 202	TEAM & LDRSP FUNDAMENTALS II and LEADERSHIP LABORATORY II	2
AS 301 & ASL 301	AIR FORCE LEADERSHIP STUDIES and LEADERSHIP LABORATORY I	4
AS 302 & ASL 302	AIR FORCE LEADERSHIP STUDIES and LEADERSHIP LABORATORY II	4
AS 401 & ASL 401	NATIONAL SECURITY AFFAIRS and LEADERSHIP LABORATORY I	4
AS 402 & ASL 402	NH SECURI AFF & PREP FOR AC DU and LEADERSHIP LABORATORY II	4
<b>Total Hours</b>		<b>24</b>

## Department of Biology

Dr. Wibur Walters

Acting Chair

wilbur.l.walters@jsums.edu (timothy.turner@jsums.edu)

601-979-2586

## Faculty of Department

H. Ahmad, I. Farah, C. Howard, J. Stevens, B. Graham, R. Kafoury, M. Pacurari, H. Huang, F. Noubissi-Kamden, A. Mbemi-Chitoh, N. Ibrahim, A. Patolla, M. Moulana, T. Taylor, B. Thoma, T. Wright, L. Drummond, A. Mohamed (Dean Emeritus), J. Cameron (Professor Emeritus)

## Objectives

The objectives of the Department of Biology are as follows:

- To develop the student's understanding of the basic biological principles.
- To help students think logically and communicate clearly.
- To help students become conscious of social problems, especially those relevant to the life sciences.
- To prepare students for careers in the life sciences, teaching, and graduate studies.
- To provide a strong pre-professional foundation for medicine, dentistry, veterinary medicine, pharmacy, optometry, physical therapy, dental hygiene, medical technology, and nursing.
- To engage in basic and applied research that benefits the local and scientific community.
- To offer introductory biology courses to non-biology majors to fulfill their general education requirements.

## Bachelor

- Biology (B.S.) Environmental Science Track (p. 151)
- Biology (B.S.) Marine Science Track (p. 153)
- Biology (B.S.) Pre-Medicine/MCAT Track, Pre-Dentistry/DAT Track, Pre-Optometry/OAT Track (p. 154)
- Biology (B.S.) Pre-Pharmacy Track (p. 156)
- Biology (B.S.) Pre-Physical Therapy Track, Pre-Physician Assistant Track, Pre-Nursing Track (p. 158)
- Biology (B.S.) Pre-Veterinary Medicine Track (<https://jsums-public.courseleaf.com/undergraduate/college-science-engineering-technology/department-biology/biology-bs-pre-veterinary20medicine20track/>)

## Minor

- Biology Minor (p. 160)

## Biology (B.S.) Environmental Science Track

### Major Requirements

Code	Title	Hours
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4

BIO 200 & BIOL 200	Introduction to Cell Biology and INTRO TO CELL BIOLOGY LAB	4
BIO 209 & BIOL 209	Principles of Genetics and Principles of Genetics Lab	4
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
BIO 390	SEMINAR IN BIOLOGY (w)	1
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
MATH 111	COLLEGE ALGEBRA	3
MATH 112	PLANE TRIGONOMETRY	3
MATH 241	CALCULUS I WITH LABORATORY	3
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
STATISTICS ELECTIVE		3
<b>Total Hours</b>		<b>57</b>

## Concentration

Code	Title	Hours
BIO 201	INTRO TO ENVIRONMENTAL SCIENCE	3
BIO 404	ENVIRONMENTAL SCIENCE	3
BIOL 404	ENVIRONMENTAL SCIENCE LAB	1
BIO 423 & BIOL 423	ECOLOGY and ECOLOGY LABORATORY	4
BIO 395	Principles of Biochemistry or CHEM 431 BIOCHEMISTRY I	3
ENVIRONMENTAL SCIENCE ELECTIVES		12
ENVIRONMENTAL SCIENCE ELECTIVES (300-400 LEVEL)		8
<b>Total Hours</b>		<b>34</b>

The following may be taken as Biology electives:

Code	Title	Hours
BIO 115 & BIOL 115	GENERAL ZOOLOGY and GENERAL ZOOLOGY LAB	4
BIO 119 & BIOL 119	GENERAL BOTANY and GENERAL BOTANY LAB	4
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
BIO 235 & BIOL 235	HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY LAB	4
BIO 236	CONCEPTS OF PUBLIC HEALTH	3
BIO 302	BIOINFORMATICS AND COMPUTATIONAL BIOLOGY	3
BIO 332	PARASITOLOGY	3
BIO 335	INTRODUCTION TO ANIMAL SCIENCE	3
BIO 391	INTRODUCTION TO RESEARCH	2



BIOL 395	Principles of Biochemistry Lab	1
BIO 406 & BIOL 406	HUMAN ENVIRONMENT & NATURL SYS and HUMAN ENVIRNMNT & NAT SYSTM LAB	4
BIO 412	NATURAL RES & CONS	3
BIO 425	INTRODUCTION TO MARINE BIOLOGY	3
BIO 431	INVERTEBRATE ZOOLOGY	3
BIO 433	BIOLOGY OF WATER POLLUTION	3
BIO 435	ANIMAL NUTRITION	3
BIO 440 & BIOL 440	CELL BIOLOGY and CELL BIOLOGY LAB	4
BIO 450	MARINE INVERTEBRATE ZOOLOGY	3
BIO 451	INTRODUCTION TO IMMUNOLOGY	3
BIO 461	INTRODUCTION TO VIROLOGY	3
BIO 447 & BIOL 447	Introduction to Oceanography and Introduction to Oceanography Lab	4
SCI 201 & SCIL 201	PHYSICAL SCIENCE and PHYSICAL SCIENCE LAB	3
SCI 205	EARTH & SPACE SCIENCE	3
SCI 215	GLOBAL CHANGE	3
SCI 310 & SCIL 310	EARTH HISTORY and EARTH HISTORY LAB	4
SCI 320	SEDIMENTARY ENVIRONMENTS	3
SCI 410	MET&CUR MAT FOR SCIENCE CR	3
SCI 425	ENVIRONMENTAL GEOLOGY	2
SCI 331	INTRO TO GIS & REMOTE SENSING	3
ITEM 402	BASIC GEOG INFO SYS REMOTE SEN	3

**Note:** Laboratory courses must be taken during the same semester as lecture for biology, chemistry and physics courses unless approved by the department chair.

### Other Requirements/Offerings

Earning at least a "C" or better in all required BIO/BIOL courses

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
MATH 111 or MATH 103	COLLEGE ALGEBRA or College Algebra with Corequisite Support	3
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
UNIV 100	UNIVERSITY SUCCESS (A)	2
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
MATH 112	PLANE TRIGONOMETRY	3
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
Pathway Option		3
<b>Hours</b>		<b>17</b>

### Sophomore

#### Fall

BIO 200 & BIOL 200	Introduction to Cell Biology and INTRO TO CELL BIOLOGY LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 241	CALCULUS I WITH LABORATORY	3
Social & Behavioral Science Option		3
Pathway Option		3

**Hours** 17

#### Spring

BIO 201	INTRO TO ENVIRONMENTAL SCIENCE	3
BIO 209 & BIOL 209	Principles of Genetics and Principles of Genetics Lab	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3

**Hours** 15

### Junior

#### Fall

BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
BIO 390	SEMINAR IN BIOLOGY	1
BIO 395 or CHEM 431	Principles of Biochemistry or BIOCHEMISTRY I	3
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
Humanities & Fine Arts Option		3

**Hours** 15

#### Spring

BIO 404 & BIOL 404	ENVIRONMENTAL SCIENCE and ENVIRONMENTAL SCIENCE LAB	3
BIO 423 & BIOL 423	ECOLOGY and ECOLOGY LABORATORY	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
Humanities & Fine Arts Option		3

**Hours** 15

### Senior

#### Fall

Environmental Science Elective		12
Statistics Elective		3

**Hours** 15

#### Spring

Social & Behavioral Science Option		3
Humanities & Fine Arts Option		3
Environmental Science Elective (300-400 Level)		8

**Hours** 14

**Total Hours** 124

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

## Student Learning Outcomes

- Students will demonstrate the ability to analyze primary scientific literature, interpret results (including graphs, tables, and charts),

evaluate, and summarize findings, and present their analysis in written or oral form.

- Students will be able to compare the biotic and abiotic factors that shape major ecosystems and assess how changes in these factors would alter the boundaries between these habitats.
- Students will be able to explain the biochemical processes that carry out transfer of biological information from DNA and how these processes are regulated and illustrate the principles of genetics and epigenetics to explain heritable traits in a variety of organisms.
- Students will be able to apply understanding of principles of how molecular and cell assemblies, organs, and organisms develop structure and carry out functions.
- Students will demonstrate the ability to inventory and differentiate the major systems of the human body and describe their function.

## Biology (B.S.) Marine Science Track

### Other Requirements/Offerings

Earning at least a "C" or better in all required BIO/BIOL courses

### Major Requirements

Code	Title	Hours
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 200 & BIOL 200	Introduction to Cell Biology and INTRO TO CELL BIOLOGY LAB	4
BIO 209 & BIOL 209	Principles of Genetics and Principles of Genetics Lab	4
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
BIO 390	SEMINAR IN BIOLOGY (w)	1
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
MATH 111 or MATH 103	COLLEGE ALGEBRA College Algebra with Corequisite Support	3
MATH 112	PLANE TRIGONOMETRY	3
MATH 241	CALCULUS I WITH LABORATORY	3
Statistics Elective		3
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
<b>Total Hours</b>		<b>57</b>

## Concentration

Code	Title	Hours
BIO 423 & BIOL 423	ECOLOGY and ECOLOGY LABORATORY	4
BIO 425 & BIOL 425	INTRODUCTION TO MARINE BIOLOGY and INTRODUCTN TO MARINE BIOLOGY L	4
BIO 447 & BIOL 447	Introduction to Oceanography and Introduction to Oceanography Lab	4
BIO 395 or CHEM 431	Principles of Biochemistry BIOCHEMISTRY I	3
Marine Science Electives		11
Marine Science Electives (300-400 Level)		8
<b>Total Hours</b>		<b>34</b>

The following may be taken as Biology electives:

Code	Title	Hours
BIO 115 & BIOL 115	GENERAL ZOOLOGY and GENERAL ZOOLOGY LAB	4
BIO 119 & BIOL 119	GENERAL BOTANY and GENERAL BOTANY LAB	4
BIO 201	INTRO TO ENVIRONMENTAL SCIENCE	3
BIO 302	BIOINFORMATICS AND COMPUTATIONAL BIOLOGY	3
BIO 332	PARASITOLOGY	3
BIO 335	INTRODUCTION TO ANIMAL SCIENCE	3
BIO 391	INTRODUCTION TO RESEARCH	2
BIOL 395	Principles of Biochemistry Lab	1
BIO 404	ENVIRONMENTAL SCIENCE	3
BIO 406 & BIOL 406	HUMAN ENVIRONMENT & NATURL SYS and HUMAN ENVIRNMNT & NAT SYSM LAB	4
BIO 412	NATURAL RES & CONS	3
BIO 431	INVERTEBRATE ZOOLOGY	3
BIO 433	BIOLOGY OF WATER POLLUTION	3
BIO 435	ANIMAL NUTRITION	3
BIO 440 & BIOL 440	CELL BIOLOGY and CELL BIOLOGY LAB	4
BIO 450	MARINE INVERTEBRATE ZOOLOGY	3
BIO 451	INTRODUCTION TO IMMUNOLOGY	3
BIO 461	INTRODUCTION TO VIROLOGY	3
SCI 201 & SCIL 201	PHYSICAL SCIENCE and PHYSICAL SCIENCE LAB	3
SCI 205	EARTH & SPACE SCIENCE	3
SCI 215	GLOBAL CHANGE	3
SCI 310	EARTH HISTORY	3
SCI 320	SEDIMENTARY ENVIRONMENTS	3
SCI 331	INTRO TO GIS & REMOTE SENSING	3
SCI 410	MET&CUR MAT FOR SCIENCE CR	3
ITEM 402	BASIC GEOG INFO SYS REMOTE SEN	3

Other courses may be taken with the approval of the department Chair.

**Note:** Laboratory courses must be taken during the same semester as lecture for biology, chemistry and physics courses unless approved by the department chair.

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
MATH 111 or MATH 103	COLLEGE ALGEBRA or College Algebra with Corequisite Support	3
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
UNIV 100	UNIVERSITY SUCCESS	2
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
MATH 112	PLANE TRIGONOMETRY	3
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIO 200 & BIOL 200	Introduction to Cell Biology and INTRO TO CELL BIOLOGY LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 241	CALCULUS I WITH LABORATORY	3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
BIO 209 & BIOL 209	Principles of Genetics and Principles of Genetics Lab	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
UNIV 200	CIVIC ENGAGEMENT	1
Statistics Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
BIO 390	SEMINAR IN BIOLOGY	1
BIO 447 & BIOL 447	Introduction to Oceanography and Introduction to Oceanography Lab	4
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIO 423 & BIOL 423	ECOLOGY and ECOLOGY LABORATORY	4
BIO 425 & BIOL 425	INTRODUCTION TO MARINE BIOLOGY and INTRODUCTN TO MARINE BIOLOGY L	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>15</b>

### Senior

#### Fall

Marine Science Elective		11
BIO 395 or CHEM 431	Principles of Biochemistry or BIOCHEMISTRY I	3
<b>Hours</b>		<b>14</b>

#### Spring

Social & Behavioral Science Option		3
Humanities & Fine Arts Option		3
Marine Science Elective (300-400 Level)		8
<b>Hours</b>		<b>14</b>
<b>Total Hours</b>		<b>124</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

- Students will demonstrate the ability to analyze primary scientific literature, interpret results (including graphs, tables, and charts), evaluate, and summarize findings, and present their analysis in written or oral form.
- Students will be able to compare the biotic and abiotic factors that shape major ecosystems and assess how changes in these factors would alter the boundaries between these habitats.
- Students will be able to explain the biochemical processes that carry out transfer of biological information from DNA and how these processes are regulated and illustrate the principles of genetics and epigenetics to explain heritable traits in a variety of organisms.
- Students will be able to apply understanding of principles of how molecular and cell assemblies, organs, and organisms develop structure and carry out functions.
- Students will demonstrate the ability to inventory and differentiate the major systems of the human body and describe their function.

## Biology (B.S.) Pre-Medicine/MCAT Track, Pre-Dentistry/DAT Track, Pre-Optometry/OAT Track

### Other Requirements/Offerings

Earning at least a "C" or better in all required BIO/BIOL courses.

### Major Requirements

Code	Title	Hours
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 200 & BIOL 200	Introduction to Cell Biology and INTRO TO CELL BIOLOGY LAB	4
BIO 209 & BIOL 209	Principles of Genetics and Principles of Genetics Lab	4

BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
BIO 390	SEMINAR IN BIOLOGY (w)	1
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
MATH 111 or MATH 103	COLLEGE ALGEBRA College Algebra with Corequisite Support	3
MATH 112	PLANE TRIGONOMETRY	3
MATH 241	CALCULUS I WITH LABORATORY	3
Statistics Elective		3
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
<b>Total Hours</b>		<b>57</b>

## Concentration

Code	Title	Hours
BIO 114	Introduction to Marine & Environmental Sciences	3
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
BIO 235 & BIOL 235	HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY LAB	4
Biology Electives		5
Biology Electives (300-400 Level)		8
BIO 395 & BIOL 395 or CHEM 431	Principles of Biochemistry and Principles of Biochemistry Lab BIOCHEMISTRY I	4
PSY 201	GENERAL PSYCHOLOGY	3
SOC 214	INTRODUCTN TO SOCIOLOGY	3
<b>Total Hours</b>		<b>34</b>

The following may be taken as Biology electives:

Code	Title	Hours
BIO 115 & BIOL 115	GENERAL ZOOLOGY and GENERAL ZOOLOGY LAB	4
BIO 119 & BIOL 119	GENERAL BOTANY and GENERAL BOTANY LAB	4
BIO 201	INTRO TO ENVIRONMENTAL SCIENCE	3
BIO 236	CONCPTS OF PUBLIC HEALTH	3
BIO 302	BIOINFORMATICS AND COMPUTATIONAL BIOLOGY	3
BIO 332	PARASITOLOGY	3
BIO 335	INTRODUCTION TO ANIMAL SCIENCE	3
BIO 391	INTRODUCTION TO RESEARCH	2
BIO 393	INTRO TO MEDICAL TERMINOLOGY	3
BIO 404	ENVIRONMENTAL SCIENCE	3
BIO 406	HUMAN ENVIRONMENT & NATURL SYS	3

BIO 409	Genetics	3
BIO 412	NATURAL RES & CONS	3
BIO 413	HUMAN NUTRITION	3
BIO 423 & BIOL 423	ECOLOGY and ECOLOGY LABORATORY	4
BIO 425 & BIOL 425	INTRODUCTION TO MARINE BIOLOGY and INTRODUCTN TO MARINE BIOLOGY L	4
BIO 431	INVERTEBRATE ZOOLOGY	3
BIO 433	BIOLOGY OF WATER POLLUTION	3
BIO 435	ANIMAL NUTRITION	3
BIO 440 & BIOL 440	CELL BIOLOGY and CELL BIOLOGY LAB	4
BIO 441 & BIOL 441	HISTOLOGY and HISTOLOGY LAB	4
BIO 447	Introduction to Oceanography	3
BIO 450	MARINE INVERTEBRATE ZOOLOGY	3
BIO 451	INTRODUCTION TO IMMUNOLOGY	3
BIO 461	INTRODUCTION TO VIROLOGY	3
BIO 470	HUMAN PHYSIOLOGY	3
BIO 496	Cancer Biology	3

- Other courses may be taken with the approval of the department Chair.
- Students may not take Biology, Math, Chemistry or Physics for a general elective.

**Note:** Laboratory courses must be taken during the same semester as lecture for biology, chemistry and physics courses unless approved by the department chair.

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
MATH 111 or MATH 103	COLLEGE ALGEBRA or College Algebra with Corequisite Support	3
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
UNIV 100	UNIVERSITY SUCCESS	2
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
Pathway Option		3
MATH 112	PLANE TRIGONOMETRY	3
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
<b>Hours</b>		<b>17</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIO 115 & BIOL 115	GENERAL ZOOLOGY and GENERAL ZOOLOGY LAB	4

CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 241	CALCULUS I WITH LABORATORY	3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
BIO 119 & BIOL 119	GENERAL BOTANY and GENERAL BOTANY LAB	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
BIO 114	Introduction to Marine & Environmental Sciences	2
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
CSC 115	DIGITAL COMPUTER PRINCIPLES	3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIO 318 & BIOL 318	INTRODUCTORY GENETICS and INTRODUCTORY GENETICS LAB	4
BIO 390	SEMINAR IN BIOLOGY (W)	1
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
Social & Behavioral Sciences Option		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
BIO 470 & BIOL 470	HUMAN PHYSIOLOGY and HUMAN PHYSIOLOGY LAB (W)	4
PSY 201	GENERAL PSYCHOLOGY	3
Biology Elective		4
General Elective		3
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
BIO 440 & BIOL 440	CELL BIOLOGY and CELL BIOLOGY LAB	4
Biology Elective		4
General Elective		3
Biology Elective		3
<b>Hours</b>		<b>14</b>
<b>Total Hours</b>		<b>124</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

**Student Learning Outcomes**

- Students will demonstrate the ability to analyze primary scientific literature, interpret results (including graphs, tables, and charts),

evaluate, and summarize findings, and present their analysis in written or oral form.

- Students will be able to compare the biotic and abiotic factors that shape major ecosystems and assess how changes in these factors would alter the boundaries between these habitats.
- Students will be able to explain the biochemical processes that carry out transfer of biological information from DNA and how these processes are regulated and illustrate the principles of genetics and epigenetics to explain heritable traits in a variety of organisms.
- Students will be able to apply understanding of principles of how molecular and cell assemblies, organs, and organisms develop structure and carry out functions.
- Students will demonstrate the ability to inventory and differentiate the major systems of the human body and describe their function.

**Biology (B.S.) Pre-Pharmacy Track****Other Requirements/Offerings**

Earning at least a "C" or better in all required BIO/BIOL courses.

**Major Requirements**

Code	Title	Hours
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 200 & BIOL 200	Introduction to Cell Biology and INTRO TO CELL BIOLOGY LAB	4
BIO 209 & BIOL 209	Principles of Genetics and Principles of Genetics Lab	4
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
BIO 390	SEMINAR IN BIOLOGY (w)	1
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
MATH 111	COLLEGE ALGEBRA	3
or MATH 103	College Algebra with Corequisite Support	
MATH 112	PLANE TRIGONOMETRY	3
MATH 241	CALCULUS I WITH LABORATORY	3
Statistics Option		3
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4

**Total Hours****57**

## Concentration

Code	Title	Hours
BIO 114	Introduction to Marine & Environmental Sciences	3
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
BIO 235 & BIOL 235	HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY LAB	4
Biology Electives		5
Biology Electives (300-400 Level)		5
BIO 395 & BIOL 395 or CHEM 431	Principles of Biochemistry and Principles of Biochemistry Lab BIOCHEMISTRY I	4
PSY 201	GENERAL PSYCHOLOGY	3
SOC 214	INTRODUCTN TO SOCIOLOGY	3
ECO 211 or ECO 212	PRINCIPLES OF MACROECONOMICS PRINCIPLES OF MICROECONOMICS	3
<b>Total Hours</b>		<b>34</b>

## Electives

Code	Title	Hours
BIO 115 & BIOL 115	GENERAL ZOOLOGY and GENERAL ZOOLOGY LAB	4
BIO 119 & BIOL 119	GENERAL BOTANY and GENERAL BOTANY LAB	4
BIO 201	INTRO TO ENVIRONMENTAL SCIENCE	3
BIO 236	CONCPTS OF PUBLIC HEALTH	3
BIO 302	BIOINFORMATICS AND COMPUTATIONAL BIOLOGY	3
BIO 332	PARASITOLOGY	3
BIO 335	INTRODUCTION TO ANIMAL SCIENCE	3
BIO 391	INTRODUCTION TO RESEARCH	2
BIO 393	INTRO TO MEDICAL TERMINOLOGY	3
BIO 404	ENVIRONMENTAL SCIENCE	3
BIO 406	HUMAN ENVIRONMENT & NATURL SYS	3
BIO 412	NATURAL RES & CONS	3
BIO 413 & BIOL 413	HUMAN NUTRITION and PRINCIPLES OF HUMAN NUTRIT LAB	4
BIO 423 & BIOL 423	ECOLOGY and ECOLOGY LABORATORY	4
BIO 425 & BIOL 425	INTRODUCTION TO MARINE BIOLOGY and INTRODUCTN TO MARINE BIOLOGY L	4
BIO 433	BIOLOGY OF WATER POLUTION	3
BIO 440 & BIOL 440	CELL BIOLOGY and CELL BIOLOGY LAB	4
BIO 441 & BIOL 441	HISTOLOGY and HISTOLOGY LAB	4
BIO 447 & BIOL 447	Introduction to Oceanography and Introduction to Oceanography Lab	4
BIO 450	MARINE INVERTEBRATE ZOOLOGY	3
BIO 451	INTRODUCTION TO IMMUNOLOGY	3
BIO 461	INTRODUCTION TO VIROLOGY	3

BIO 470 & BIOL 470	HUMAN PHYSIOLOGY and HUMAN PHYSIOLOGY LAB	4
BIO 496	Cancer Biology	3

Other courses may be taken with the approval of the department Chair.

**Note:** Laboratory courses must be taken during the same semester as lecture for biology, chemistry and physics courses unless approved by the department chair.

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
MATH 111 or MATH 103	COLLEGE ALGEBRA or College Algebra with Corequisite Support	3
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
UNIV 100	UNIVERSITY SUCCESS	2
		<b>Hours</b>
		<b>16</b>
<b>Spring</b>		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
MATH 112	PLANE TRIGONOMETRY	3
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
Pathway Option		3
		<b>Hours</b>
		<b>17</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIO 200 & BIOL 200	Introduction to Cell Biology and INTRO TO CELL BIOLOGY LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 241	CALCULUS I WITH LABORATORY	3
SOC 214	INTRODUCTN TO SOCIOLOGY	3
Pathway Option		3
		<b>Hours</b>
		<b>17</b>
<b>Spring</b>		
PSY 201	GENERAL PSYCHOLOGY	3
BIO 209 & BIOL 209	Principles of Genetics and Principles of Genetics Lab	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
		<b>Hours</b>
		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
BIO 395 & BIOL 395 or CHEM 431	Principles of Biochemistry or BIOCHEMISTRY I	4

PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIO 235 & BIOL 235	HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY LAB	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
ECO 211 or ECO 212	PRINCIPLES OF MACROECONOMICS or PRINCIPLES OF MICROECONOMICS	3
Statistics Elective		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>17</b>
<b>Senior</b>		
<b>Fall</b>		
BIO 114	Introduction to Marine & Environmental Sciences	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Biology Electives		5
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
BIO 390	SEMINAR IN BIOLOGY	1
Social & Behavioral Science Option		3
Humanities & Fine Arts		3
Biology Electives (300-400 Level)		5
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>124</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

**Student Learning Outcomes**

- Students will demonstrate the ability to analyze primary scientific literature, interpret results (including graphs, tables, and charts), evaluate, and summarize findings, and present their analysis in written or oral form.
- Students will be able to compare the biotic and abiotic factors that shape major ecosystems and assess how changes in these factors would alter the boundaries between these habitats.
- Students will be able to explain the biochemical processes that carry out transfer of biological information from DNA and how these processes are regulated and illustrate the principles of genetics and epigenetics to explain heritable traits in a variety of organisms.
- Students will be able to apply understanding of principles of how molecular and cell assemblies, organs, and organisms develop structure and carry out functions.
- Students will demonstrate the ability to inventory and differentiate the major systems of the human body and describe their function.

## Biology (B.S.) Pre-Physical Therapy Track, Pre-Physician Assistant Track, Pre-Nursing Track

### Other Requirements/Offerings

Earning at least a “C” or better in all required BIO/BIOL courses.

### Major Requirements

Code	Title	Hours
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 200 & BIOL 200	Introduction to Cell Biology and INTRO TO CELL BIOLOGY LAB	4
BIO 209 & BIOL 209	Principles of Genetics and Principles of Genetics Lab	4
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
BIO 390	SEMINAR IN BIOLOGY (w)	1
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
MATH 111 or MATH 103	COLLEGE ALGEBRA College Algebra with Corequisite Support	3
MATH 112	PLANE TRIGONOMETRY	3
MATH 241	CALCULUS I WITH LABORATORY	3
Statistics Elective		3
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
<b>Total Hours</b>		<b>57</b>

### Concentration

Code	Title	Hours
BIO 114	Introduction to Marine & Environmental Sciences	3
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
BIO 235 & BIOL 235	HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY LAB	4
BIO 393	INTRO TO MEDICAL TERMINOLOGY	3
BIO 395 & BIOL 395 or CHEM 431	Principles of Biochemistry and Principles of Biochemistry Lab BIOCHEMISTRY I	4
Biology Elective		3
Biology Elective (300-400 Level)		4
PSY 201	GENERAL PSYCHOLOGY	3

PSY 214	DEVELOPMENTAL PSYCHOLOGY	3
PSY 216	ABNORMAL PSYCHOLOGY	3
SOC 214	INTRODUCTN TO SOCIOLOGY	3
<b>Total Hours</b>		<b>37</b>

## Other Prerequisite Requirements

- Provide evidence of observation in a minimum of two physical therapy clinical departments or practices for a total of 40 hours (additional hours and sites recommended).

## Clinical Training (2 Years)

- An additional two (2) years of clinical training is required for the M.S. degree in Physical Therapy at an accredited health professional school.

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103	COMPOSITION I or English Composition I with Co-requisite Support	3
MATH 111 or MATH 103	COLLEGE ALGEBRA or College Algebra with Corequisite Support	3
UNIV 100	UNIVERSITY SUCCESS	2
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ENG 105	COMPOSITION II	3
MATH 112	PLANE TRIGONOMETRY	3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIO 115 & BIOL 115	GENERAL ZOOLOGY and GENERAL ZOOLOGY LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 241	CALCULUS I WITH LABORATORY	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
BIO 119 & BIOL 119	GENERAL BOTANY and GENERAL BOTANY LAB	4
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
BIO 318 & BIOL 313	INTRODUCTORY GENETICS and INTRODUCTION TO MICROBIOLOGY L	4

BIO 390	SEMINAR IN BIOLOGY (W)	1
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
PSY 201	GENERAL PSYCHOLOGY	3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
BIO 392	INDEPENDENT STUDY (S)	2
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
Social & Behavioral Science Option		3
General Elective		3
<b>Hours</b>		<b>12</b>
<b>Senior</b>		
<b>Fall</b>		
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
PSY 214	DEVELOPMENTAL PSYCHOLOGY	3
Biology Elective		4
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
BIO 235 & BIOL 235	HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY LAB	4
PSY 216	ABNORMAL PSYCHOLOGY	3
SOC 214	INTRODUCTN TO SOCIOLOGY	3
Statistics Elective		3
<b>Hours</b>		<b>13</b>
<b>Total Hours</b>		<b>120</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

### Notes:

- Students may not take Biology, Math, Chemistry, or Physics for a general elective.
- Laboratory courses must be taken during the same semester as lectures for biology, chemistry, and physics courses unless approved by the department chair.

## Student Learning Outcomes

- Students will demonstrate the ability to analyze primary scientific literature, interpret results (including graphs, tables, and charts), evaluate, and summarize findings, and present their analysis in written or oral form.
- Students will be able to compare the biotic and abiotic factors that shape major ecosystems and assess how changes in these factors would alter the boundaries between these habitats.
- Students will be able to explain the biochemical processes that carry out transfer of biological information from DNA and how these processes are regulated and illustrate the principles of genetics and epigenetics to explain heritable traits in a variety of organisms.
- Students will be able to apply understanding of principles of how molecular and cell assemblies, organs, and organisms develop structure and carry out functions.



- Students will demonstrate the ability to inventory and differentiate the major systems of the human body and describe their function.

## Biology Minor

A minor in Biology requires at least 20 credit hours of Biology courses (BIO & BIOL). BIO 101 INTRO TO BIOLOGICAL SCIENCE and BIOL 101 INTRO TO BIO SCI LAB cannot be used toward the 20 credit hours. All coursework must be completed with grades of "C" or better.

Code	Title	Hours
<b>Required Courses</b>		
BIO 111	GENERAL BIOLOGY	3
BIOL 111	GENERAL BIOLOGY LAB	1
BIO 112	GENERAL BIOLOGY	3
BIOL 112	GENERAL BIOLOGY LAB	1
300-400 level Biology electives		8
<b>Elective Courses</b>		
Biology Electives <sup>1</sup>		4
<b>Total Hours</b>		<b>20</b>

<sup>1</sup> Students may choose any BIO or BIOL course to satisfy the remaining 4 hours needed. BIO 101 INTRO TO BIOLOGICAL SCIENCE and BIOL 101 INTRO TO BIO SCI LAB cannot be used.

## Department of Chemistry, Physics and Atmospheric Sciences

Dr. Mehri Fadavi  
Department Chair  
Just Hall of Science Building, Room 327

### Faculty

F. Han, E. Heydari, G. Hill, A. Hossain, M. Huang, J. Leszczynski, Y. Liu, P. Ray, T. Shahbazyan, J. Watts, L. White; N. Campbell, S. Goupalov, D. Lu, S. Yang; Q. Dai, M. Islam, N. Pradhan, Y. Zhao, A. Khan, J. Zhou, M. Yasir

### Mission

- To provide quality education to its diverse undergraduate and graduate students in fundamental, applied, and interdisciplinary areas of the chemical, physical, atmospheric, earth and space sciences.
- To carry out corresponding research activities leading to scientific discovery by its faculty, research personnel, and students in the areas of computational sciences, nanotechnology, material science, theoretical condensed matter, machine learning, renewable energy, optics and photonics, meteorological observations, modeling and forecasting, and science education.
- To use scientific knowledge and technology to serve its surrounding and international communities.

### Objectives

- To prepare students to compete globally by offering rigorous quality science programs, that will inspire and prepare them to seek advanced graduate studies and research and become prepared to enter the science, technology, engineering, and mathematics (STEM) workforce, and contribute professional services within the world's scientific community

- To Maintain excellent research programs
- To provide services to the community and the state
- To promote the professional growth and development of the faculty

The Department of Chemistry, Physics & Atmospheric Sciences (CPAS) offers the Bachelor of Science degrees in Chemistry with American Chemical Society Certification and with concentrations in Pre-Health Profession Preparatory Pathway, Biomedical Science, Environmental Science, and Forensic Science; Physics with concentrations in Pre-Health Profession Preparatory Pathway, Management and Physics Teaching; Meteorology; and Earth System Sciences. Pre-Health Profession Preparatory Pathway includes pre-medicine, pre-dentistry, and pre-pharmacy.

### Accreditation

The department offers a comprehensive chemistry program, BS in Chemistry with ACS Certification that is accredited by the American Chemical Society. The department certifies certificates to BS graduates who have completed ACS certification requirements. According to ACS accrediting body, graduates must complete introductory, foundational, and in-depth chemistry courses; 400 hours of laboratory experience beyond the general chemistry laboratory; and undergraduate research. Our accrediting body is ACS Committee on Professional Training (CPT),

American Chemical Society  
1155 Sixteenth Street NW  
Washington D.C. 20036  
202-872-4589  
[www.acs.org/cpt](http://www.acs.org/cpt) (<http://www.acs.org/cpt/>)

### Placement Exams

For students to be eligible to take (CHEM 141 GENERAL CHEMISTRY I) and (CHML 141 GENERAL CHEMISTRY LAB), a minimum score of 21 on the MATH ACT, or passing the placement exam will be required.

### Requirements for the Major

To receive the BS degree, a student must maintain a C or higher grade in all core science and math courses. The total number of hours of coursework for the BS is 124 semester hours including transfer credits. Standardized tests (GRE, MCAT, MFT, PCAT, etc.), the Chemistry Exit Exam, Research Report, and Research Presentation are required before graduation.

### Bachelor

- Chemistry (B.S.) American Chemical Society Certified (p. 161)
- Chemistry (B.S.) Biomedical Sciences (p. 162)
- Chemistry (B.S.) Environmental Sciences (p. 163)
- Chemistry (B.S.) Forensic Concentration (p. 165)
- Chemistry (B.S.) Pre-Profession Concentration (p. 166)
- Chemistry (B.S.) Without Certification (p. 168)
- Earth System Science (B.S.) (p. 170)
- Meteorology (B.S.) (p. 171)
- Physics (B.S.) General (p. 172)
- Physics (B.S.) Pre-Med with Biology (p. 176)
- Physics (B.S.) STEMBA (p. 174)
- Physics Education (B.S.Ed.) (p. 177)

## Minor

- Chemistry Minor (p. 169)

# Chemistry (B.S.) American Chemical Society Certified

## Major Requirements

Code	Title	Hours
CHEM 141 & CHEM 142	GENERAL CHEMISTRY I and GENERAL CHEMISTRY II	6
CHML 141 & CHML 142	GENERAL CHEMISTRY LAB and GENERAL CHEMISTRY II LAB	2
CHEM 241 & CHEM 242	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II	6
CHML 241 & CHML 242	ORGANIC CHEMISTRY I LAB and ORGANIC CHEMISTRY II LAB	2
CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
CHEM 341	PHYSICAL CHEMISTRY I	3
CHML 341	PHYSICAL CHEMISTRY I LAB	1
CHEM 381	CHEMISTRY SEMINAR	0.5
CHEM 382	CHEMISTRY SEMINAR	0.5
CHEM 429	Organic Structure Determination by Spectroscopy	3
CHEM 481	CHEMISTRY SEMINAR	0.5
CHEM 482	CHEMISTRY SEMINAR	0.5
MATH 242	CALCULUS II WITH LABORATORY	3
<b>Total Hours</b>		<b>38</b>

Code	Title	Hours
Concentration (ASC Certification)		
CHEM 342	PHYSICAL CHEMISTRY II	3
CHML 342	PHYSICAL CHEMISTRY II LAB	1
CHEM 380	INDEPENDENT STUDY	2
CHEM 421	CHEMICAL INSTRUMENTATION	3
CHML 421	CHEMICAL INSTRUMENTATION LAB	1
CHEM 431	BIOCHEMISTRY I	3
CHML 431	BIOCHEMISTRY I LAB	1
CHEM XXX	Advance Chemistry Elective	6
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
MATH 243	CALCULUS III WITH LABORATORY	3
<b>Total Hours</b>		<b>31</b>

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4

CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3

**Hours** **16**

<b>Spring</b>		
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 241	CALCULUS I WITH LABORATORY	3
Humanities & Fine Arts Option		3
Pathway Option		3

**Hours** **16**

<b>Sophomore</b>		
<b>Fall</b>		
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Humanities & Fine Arts Option		3
Pathway Option		3

**Hours** **17**

<b>Spring</b>		
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
MATH 243	CALCULUS III WITH LABORATORY	3
Pathway Option		3
UNIV 200	CIVIC ENGAGEMENT	1

**Hours** **19**

<b>Junior</b>		
<b>Fall</b>		
CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 341 & CHML 341	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LAB	4
CHEM 380	INDEPENDENT STUDY	1
CHEM 381	CHEMISTRY SEMINAR	0.5
Social & Behavioral Science Option		3

**Hours** **12.5**

<b>Spring</b>		
CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 342 & CHML 342	PHYSICAL CHEMISTRY II and PHYSICAL CHEMISTRY II LAB	4
CHEM 382	CHEMISTRY SEMINAR	0.5
CHEM 429	Organic Structure Determination by Spectroscopy	3
Social & Behavioral Science Option		3

**Hours** **12.5**

<b>Senior</b>		
<b>Fall</b>		
CHEM 431 & CHML 431	BIOCHEMISTRY I and BIOCHEMISTRY I LAB	4
CHEM 380	INDEPENDENT STUDY	1
CHEM 481	CHEMISTRY SEMINAR	0.5
Advance Chemistry Elective		3
General Elective		3

General Elective		3
<b>Hours</b>		<b>14.5</b>
<b>Spring</b>		
CHEM 421 & CHML 421	CHEMICAL INSTRUMENTATION and CHEMICAL INSTRUMENTATION LAB	4
CHEM 482	CHEMISTRY SEMINAR	0.5
Advance Chemistry Elective		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>13.5</b>
<b>Total Hours</b>		<b>121</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Standardized Tests (GRE, MCAT, MFT, PCAT, etc), the Chemistry Exit Exam, Research Report, and Research Presentation are required before graduation.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

Code	Title	Hours
<i>Advance Chemistry Electives</i>		
CHEM 410	ENVIRONMENTAL CHEMISTRY	3
CHEM 432	BIOCHEMISTRY II	3
CHEM 436	PHYSICAL ORGANIC CHEMISTRY	3
CHEM 439	Introduction to Polymer Chemistry	3
CHEM 452	ATOMIC & MOLECULAR STRUCTURE	3
CHEM 458	QUANTUM MECHANICS	3
CHEM 471	FORENSIC TOXICOLOGY	3

## Student Learning Outcomes

JSU Chemistry graduates will:

- acquire comprehensive knowledge of the fundamentals and application of major scientific theories in chemistry;
- be able to carry out laboratory experiments in chemistry in a safe manner as well as accurately record, analyze, and interpret the results of such experiments.
- learn, develop, and be able to apply information literacy skills in chemistry.
- be able to clearly communicate chemistry knowledge in both oral and written formats.
- be able to participate and contribute to new scientific discoveries and/or technology development efforts using their chemistry knowledge.

## Chemistry (B.S.) Biomedical Sciences

### Major Requirements

Code	Title	Hours
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4

CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
CHEM 341 & CHML 341	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LAB	4
CHEM 381	CHEMISTRY SEMINAR	0.5
CHEM 382	CHEMISTRY SEMINAR	0.5
CHEM 429	Organic Structure Determination by Spectroscopy	3
CHEM 481	CHEMISTRY SEMINAR	0.5
CHEM 482	CHEMISTRY SEMINAR	0.5
MATH 242	CALCULUS II WITH LABORATORY	3
<b>Total Hours</b>		<b>38</b>

**Note:** Students are qualified to receive a minor in biology.

### Concentration (Biomedical)

Code	Title	Hours
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
Statistics Elective		3
CHEM 380	INDEPENDENT STUDY	3
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
CHEM 431	BIOCHEMISTRY I	3
CHEM 432	BIOCHEMISTRY II	3
Biomedical Option with Lab		4
Biomedical Option		3

### Biomedical Options

Code	Title	Hours
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
BIO 318 & BIOL 318	INTRODUCTORY GENETICS and INTRODUCTORY GENETICS LAB	4
BIO 440 & BIOL 440	CELL BIOLOGY and CELL BIOLOGY LAB	4

### Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3

BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
MATH 241	CALCULUS I WITH LABORATORY	3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 381	CHEMISTRY SEMINAR	0.5
CHEM 341 & CHML 341	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LAB	4
CHEM 380	INDEPENDENT STUDY	1
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>15.5</b>
<b>Spring</b>		
CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 380	INDEPENDENT STUDY	1
CHEM 382	CHEMISTRY SEMINAR	0.5
Biomedical Option & Lab		4
Biomedical Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>13.5</b>
<b>Senior</b>		
<b>Fall</b>		
CHEM 431 & CHML 431	BIOCHEMISTRY I and BIOCHEMISTRY I LAB	4
CHEM 481	CHEMISTRY SEMINAR	0.5
General Elective		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>13.5</b>

<b>Spring</b>		
CHEM 421 & CHML 421	CHEMICAL INSTRUMENTATION and CHEMICAL INSTRUMENTATION LAB	4
CHEM 429	Organic Structure Determination by Spectroscopy	3
CHEM 482	CHEMISTRY SEMINAR	0.5
CHEM 432	BIOCHEMISTRY II	3
General Elective		3
<b>Hours</b>		<b>13.5</b>
<b>Total Hours</b>		<b>122</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

## Biomedical Sciences Option Courses

Code	Title	Hours
Select two of the following. One must have a lab: 7		
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	
BIO 318	INTRODUCTORY GENETICS	
BIO 440 & BIOL 440	CELL BIOLOGY and CELL BIOLOGY LAB	

## Student Learning Outcomes

JSU Chemistry graduates will:

- acquire comprehensive knowledge of the fundamentals and application of major scientific theories in chemistry;
- be able to carry out laboratory experiments in chemistry in a safe manner as well as accurately record, analyze, and interpret the results of such experiments.
- learn, develop, and be able to apply information literacy skills in chemistry.
- be able to clearly communicate chemistry knowledge in both oral and written formats.
- be able to participate and contribute to new scientific discoveries and/or technology development efforts using their chemistry knowledge.

## Chemistry (B.S.) Environmental Sciences

### Major Requirements

Code	Title	Hours
CHEM 141 & CHEM 142	GENERAL CHEMISTRY I and GENERAL CHEMISTRY II	6
CHML 141 & CHML 142	GENERAL CHEMISTRY LAB and GENERAL CHEMISTRY II LAB	2
CHEM 241 & CHEM 242	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II	6

CHML 241 & CHML 242	ORGANIC CHEMISTRY I LAB and ORGANIC CHEMISTRY II LAB	2
CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
CHEM 341 & CHML 341	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LAB	4
CHEM 380	INDEPENDENT STUDY	3

**Chemistry Seminar**

Select two credits from the following: 2

CHEM 381	CHEMISTRY SEMINAR	
CHEM 382	CHEMISTRY SEMINAR	
CHEM 410	ENVIRONMENTAL CHEMISTRY	
CHEM 431	BIOCHEMISTRY I	
CHEM 432	BIOCHEMISTRY II	
CHEM 436	PHYSICAL ORGANIC CHEMISTRY	
CHEM 437	ORGANIC SYNTHESIS	
CHEM 439	Introduction to Polymer Chemistry	
CHEM 441	INORGANIC CHEMISTRY II	
CHEM 452	ATOMIC & MOLECULAR STRUCTURE	
CHEM 458	QUANTUM MECHANICS	
CHEM 471	FORENSIC TOXICOLOGY	
CHEM 475	FORENSIC PRACTICUM	
CHEM 481	CHEMISTRY SEMINAR	
CHEM 482	CHEMISTRY SEMINAR	

CHEM 410	ENVIRONMENTAL CHEMISTRY	S
CHEM 421 & CHML 421	CHEMICAL INSTRUMENTATION and CHEMICAL INSTRUMENTATION LAB	4
CHEM 431 & CHML 431	BIOCHEMISTRY I and BIOCHEMISTRY I LAB	4
Toxicology Option		3

**Total Hours** 46

Code	Title	Hours
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
Environmental Option		6
Environmental Option Lab		2

**Total Hours** 12**Curriculum Map**

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>16</b>

<b>Spring</b>		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 241	CALCULUS I WITH LABORATORY	3
Pathway Option		3

**Hours** 17**Sophomore**

<b>Fall</b>		
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Humanities & Fine Arts Option		3
Pathway Option		3

**Hours** 17**Spring**

CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3

**Hours** 16**Junior**

<b>Fall</b>		
CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 341 & CHML 341	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LAB	4
CHEM 380	INDEPENDENT STUDY	1
CHEM 381	CHEMISTRY SEMINAR	0.5
Social & Behavioral Science Option		3
Humanities & Fine Arts Option		3

**Hours** 15.5**Spring**

CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 380	INDEPENDENT STUDY	1
CHEM 382	CHEMISTRY SEMINAR	0.5
CHEM 429	Organic Structure Determination by Spectroscopy	3
Environmental Option and Lab		4
Social & Behavioral Science		3

**Hours** 13.5**Senior**

<b>Fall</b>		
CHEM 380	INDEPENDENT STUDY	1
CHEM 410	ENVIRONMENTAL CHEMISTRY	3
CHML 410 ENVIRONMENTAL CHEM LAB		1
CHEM 431 & CHML 431	BIOCHEMISTRY I and BIOCHEMISTRY I LAB	4
CHEM 481	CHEMISTRY SEMINAR	0.5
General Elective		3

**Hours** 12.5**Spring**

CHEM 421 & CHML 421	CHEMICAL INSTRUMENTATION and CHEMICAL INSTRUMENTATION LAB	4
CHEM 380	INDEPENDENT STUDY	1
CHEM 482	CHEMISTRY SEMINAR	0.5

Environmental Option and Lab	4
Toxicology Option	3
<b>Hours</b>	<b>12.5</b>
<b>Total Hours</b>	<b>120</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Standardized Tests (GRE, MCAT, MFT, PCAT, etc), Chemistry Exit Exam, Research Report, and Research Presentation are required before graduation.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Environmental Science Option Courses

Code	Title	Hours
Select two of the following with labs:		
BIO 201	INTRO TO ENVIRONMENTAL SCIENCE	8
BIOL 201	INTRO TO ENVIRONMENTAL SCI LAB	1
BIO 404	ENVIRONMENTAL SCIENCE	
BIOL 404	ENVIRONMENTAL SCIENCE LAB	1

## Toxicology Option Courses

Code	Title	Hours
Select one of the following:		
ITHM 529	ENV TOXICOLOGY & RISK ASSESSME	3
CHEM 471	FORENSIC TOXICOLOGY	
<b>Total Hours</b>		<b>3</b>

## Student Learning Outcomes

JSU Chemistry graduates will:

- acquire comprehensive knowledge of the fundamentals and application of major scientific theories in chemistry;
- be able to carry out laboratory experiments in chemistry in a safe manner as well as accurately record, analyze, and interpret the results of such experiments.
- learn, develop, and be able to apply information literacy skills in chemistry.
- be able to clearly communicate chemistry knowledge in both oral and written formats.
- be able to participate and contribute to new scientific discoveries and/or technology development efforts using their chemistry knowledge.

## Chemistry (B.S.) Forensic Concentration

### Major Requirements

Code	Title	Hours
CHEM 141 & CHEM 142	GENERAL CHEMISTRY I and GENERAL CHEMISTRY II	6
CHML 141 & CHML 142	GENERAL CHEMISTRY LAB and GENERAL CHEMISTRY II LAB	2

CHEM 241 & CHEM 242	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II	6
CHML 241 & CHML 242	ORGANIC CHEMISTRY I LAB and ORGANIC CHEMISTRY II LAB	2
CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
CHEM 341 & CHML 341	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LAB	4
CHEM 421 & CHML 421	CHEMICAL INSTRUMENTATION and CHEMICAL INSTRUMENTATION LAB	4
CHEM 381	CHEMISTRY SEMINAR	0.5
CHEM 382	CHEMISTRY SEMINAR	0.5
CHEM 481	CHEMISTRY SEMINAR	0.5
CHEM 482	CHEMISTRY SEMINAR	0.5
MATH 242	CALCULUS II WITH LABORATORY	3
<b>Total Hours</b>		<b>39</b>

### Concentration (Forensic Chemistry)

Code	Title	Hours
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
CHEM 371 & CHML 371	FORENSIC CHEMISTRY and FORENSIC CHEMISTRY LAB	4
BIO 313	INTRODUCTION TO MICROBIOLOGY	3
CJ 100	INTRODUCTI TO CRIMINAL JUSTICE	3
CJ 443	FOUND OF CRIMINAL INVEST	3
Statistics Option		3
CHEM 431 & CHML 431	BIOCHEMISTRY I and BIOCHEMISTRY I LAB	4
CHEM 471	FORENSIC TOXICOLOGY	3
CHEM 475	FORENSIC PRACTICUM	3
<b>Total Hours</b>		<b>34</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4

ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 241	CALCULUS I WITH LABORATORY	3
Pathway Option		3
<b>Hours</b>		<b>17</b>

**Sophomore****Fall**

CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>

**Spring**

CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
UNIV 200		1
Pathway Option		3
<b>Hours</b>		<b>16</b>

**Junior****Fall**

CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 341 & CHML 341	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LAB	4
CHEM 381	CHEMISTRY SEMINAR	0.5
Social & Behavioral Science		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>14.5</b>

**Spring**

CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 371 & CHML 371	FORENSIC CHEMISTRY and FORENSIC CHEMISTRY LAB	4
CHEM 382	CHEMISTRY SEMINAR	0.5
Statistics Option		3
MATH 271 or BIO 202 or PSY 211	ELEMENTARY STATISTICS I or ELEMENTARY BIostatistics or STATISTICS I	3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>12.5</b>

**Senior****Fall**

BIO 313	INTRODUCTION TO MICROBIOLOGY	3
CHEM 431 & CHML 431	BIOCHEMISTRY I and BIOCHEMISTRY I LAB	4
CHEM 471	FORENSIC TOXICOLOGY	3
CHEM 481	CHEMISTRY SEMINAR	0.5
CJ 100	INTRODUCTI TO CRIMINAL JUSTICE	3
<b>Hours</b>		<b>13.5</b>

**Spring**

CHEM 421 & CHML 421	CHEMICAL INSTRUMENTATION and CHEMICAL INSTRUMENTATION LAB	4
CHEM 432	BIOCHEMISTRY II	3
CHEM 475	FORENSIC PRACTICUM	3
CHEM 482	CHEMISTRY SEMINAR	0.5

CJ 443	FOUND OF CRIMINAL INVEST	3
<b>Hours</b>		<b>13.5</b>
<b>Total Hours</b>		<b>120</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Standardized Tests (GRE, MCAT, MFT, PCAT, etc), the Chemistry Exit Exam, Research Report, and Research Presentation are required before graduation.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

JSU Chemistry graduates will:

- acquire comprehensive knowledge of the fundamentals and application of major scientific theories in chemistry;
- be able to carry out laboratory experiments in chemistry in a safe manner as well as accurately record, analyze, and interpret the results of such experiments.
- learn, develop, and be able to apply information literacy skills in chemistry.
- be able to clearly communicate chemistry knowledge in both oral and written formats.
- be able to participate and contribute to new scientific discoveries and/or technology development efforts using their chemistry knowledge.

## Chemistry (B.S.) Pre-Profession Concentration

### Major Requirements

Code	Title	Hours
CHEM 141 & CHEM 142	GENERAL CHEMISTRY I and GENERAL CHEMISTRY II	6
CHML 141 & CHML 142	GENERAL CHEMISTRY LAB and GENERAL CHEMISTRY II LAB	2
CHEM 241 & CHEM 242	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II	6
CHML 241 & CHML 242	ORGANIC CHEMISTRY I LAB and ORGANIC CHEMISTRY II LAB	2
CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
CHEM 341 & CHML 341	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LAB	4
CHEM 381	CHEMISTRY SEMINAR	0.5
CHEM 382	CHEMISTRY SEMINAR	0.5
CHEM 481	CHEMISTRY SEMINAR	0.5
CHEM 482	CHEMISTRY SEMINAR	0.5

MATH 242	CALCULUS II WITH LABORATORY	3
<b>Total Hours</b>		<b>35</b>

### Concentration (Pre-Professional)

Course	Title	Hours
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
BIO 235 & BIOL 235	HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY LAB	4
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
Statistics Option		3
CHEM 380	INDEPENDENT STUDY	2
CHEM 431 & CHML 431	BIOCHEMISTRY I and BIOCHEMISTRY I LAB	4
CHEM 432	BIOCHEMISTRY II	3
Advance Chemistry Elective		6
<b>Total Hours</b>		<b>38</b>

### Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 241	CALCULUS I WITH LABORATORY	3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4

CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 341 & CHML 341	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LAB	4
CHEM 381	CHEMISTRY SEMINAR	0.5
CHEM 380	INDEPENDENT STUDY	1
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>12.5</b>
<b>Spring</b>		
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 380	INDEPENDENT STUDY	1
CHEM 382	CHEMISTRY SEMINAR	0.5
Statistics Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>13.5</b>
<b>Senior</b>		
<b>Fall</b>		
BIO 235 & BIOL 235	HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY LAB	4
CHEM 431 & CHML 431	BIOCHEMISTRY I and BIOCHEMISTRY I LAB	4
CHEM 481	CHEMISTRY SEMINAR	0.5
Chemistry Elective		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>14.5</b>
<b>Spring</b>		
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
CHEM 432	BIOCHEMISTRY II	3
CHEM 482	CHEMISTRY SEMINAR	0.5
Chemistry Elective		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>13.5</b>
<b>Total Hours</b>		<b>120</b>

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

#### Statistics Option Courses

Code	Title	Hours
Select one of the following courses		
MATH 271	ELEMENTARY STATISTICS I	3
BIO 202	ELEMENTARY BIostatISTICS	3
PSY 211	STATISTICS I	3



**Pre-Professional Option Courses**

Code	Title	Hours
Students must choose six (6) hours of the following pre-professional courses		
CHEM 421	CHEMICAL INSTRUMENTATION	3
CHEM 342	PHYSICAL CHEMISTRY II	3
CHEM 441	INORGANIC CHEMISTRY II	3
BIO 318	INTRODUCTORY GENETICS	3
BIO 440	CELL BIOLOGY	3
BIO 441	HISTOLOGY	3
BIO 470	HUMAN PHYSIOLOGY	3

**Student Learning Outcomes**

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- be able to carry out laboratory experiments in chemistry in a safe manner as well as accurately record, analyze, and interpret the results of such experiments.
- learn, develop, and be able to apply information literacy skills in chemistry.
- be able to clearly communicate chemistry knowledge in both oral and written formats.
- be able to participate and contribute to new scientific discoveries and/or technology development efforts using their chemistry knowledge.

**Chemistry (B.S.) Without Certification****Major Requirements**

Code	Title	Hours
CHEM 141 & CHEM 142	GENERAL CHEMISTRY I and GENERAL CHEMISTRY II	6
CHML 141 & CHML 142	GENERAL CHEMISTRY LAB and GENERAL CHEMISTRY II LAB	2
CHEM 241 & CHEM 242	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II	6
CHML 241 & CHML 242	ORGANIC CHEMISTRY I LAB and ORGANIC CHEMISTRY II LAB	2
CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
CHEM 341 & CHML 341	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LAB	4
CHEM 380	INDEPENDENT STUDY	2
CHEM 421 & CHML 421	CHEMICAL INSTRUMENTATION and CHEMICAL INSTRUMENTATION LAB	4
CHEM 429	Organic Structure Determination by Spectroscopy	3
CHEM 381	CHEMISTRY SEMINAR	0.5
CHEM 382	CHEMISTRY SEMINAR	0.5
CHEM 481	CHEMISTRY SEMINAR	0.5

CHEM 482	CHEMISTRY SEMINAR	0.5
CHEM _	Advance Chemistry Electives	6
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
<b>Total Hours</b>		<b>58</b>

**Curriculum Map**

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111	COLLEGE ALGEBRA	3
UNIV 100	UNIVERSITY SUCCESS	2
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 241	CALCULUS I WITH LABORATORY	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 341 & CHML 341	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LAB	4
CHEM 381	CHEMISTRY SEMINAR	0.5
Social & Behavioral Science		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>14.5</b>

Spring		
CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 380	INDEPENDENT STUDY	1
CHEM 382	CHEMISTRY SEMINAR	0.5
Chemistry Math Option		3
Social & Behavioral Science Option		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>15.5</b>

Senior		
Fall		
CHEM 481	CHEMISTRY SEMINAR	0.5
Chemistry Elective		3
General Elective		3
General Elective		3
General Elective		3
<b>Hours</b>		<b>12.5</b>

Spring		
CHEM 421	CHEMICAL INSTRUMENTATION	4
& CHML 421	and CHEMICAL INSTRUMENTATION LAB	
CHEM 429	Organic Structure Determination by Spectroscopy	3
CHEM 482	CHEMISTRY SEMINAR	0.5
Chemistry Elective		3
General Elective		3
<b>Hours</b>		<b>13.5</b>
<b>Total Hours</b>		<b>121</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Standardized Tests (GRE, MCAT, MFT, PCAT, etc), the Chemistry Exit Exam, Research Report, and Research Presentation are required before graduation.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Chemistry Option Courses

Code	Title	Hours
Select must choose six (6) hours from the following chemistry elective options:		
CHEM 410	ENVIRONMENTAL CHEMISTRY	3
CHEM 342	PHYSICAL CHEMISTRY II	3
CHEM 436	PHYSICAL ORGANIC CHEMISTRY	3
CHEM 439	Introduction to Polymer Chemistry	3
CHEM 441	INORGANIC CHEMISTRY II	3
CHEM 452	ATOMIC & MOLECULAR STRUCTURE	3
CHEM 458	QUANTUM MECHANICS	3
CHEM 471	FORENSIC TOXICOLOGY	3

## Math Option Courses

Code	Title	Hours
Students must choose six (hours) of the following math options: <sup>1</sup>		
MATH 111	COLLEGE ALGEBRA	6-8
MATH 112	PLANE TRIGONOMETRY	

MATH 118	ALGEBRA II & TRIGONOMETRY
MATH 243	CALCULUS III WITH LABORATORY

<sup>1</sup> Comments: If taking MATH 118, there will be one less credit hour needed for the student to graduate. If a student is qualified to take MATH 241 in the freshman year, MATH 111, 112, or 118 are not required, rather, the student can take MATH 242, MATH 243, or other elective

## Student Learning Outcomes

JSU Chemistry graduates will:

- acquire comprehensive knowledge of the fundamentals and application of major scientific theories in chemistry;
- be able to carry out laboratory experiments in chemistry in a safe manner as well as accurately record, analyze, and interpret the results of such experiments.
- learn, develop, and be able to apply information literacy skills in chemistry.
- be able to clearly communicate chemistry knowledge in both oral and written formats.
- be able to participate and contribute to new scientific discoveries and/or technology development efforts using their chemistry knowledge.

## Chemistry Minor

### Requirements

The Chemistry minor requires a minimum of 21 credit hours in Chemistry. The minor includes 9 credit hours of core courses and 12 credit hours of 3 elective lecture and lab courses. All coursework must be completed with grades of "C" or higher. Since our chemistry program is approved by American Chemical Society (ACS), the 2003 ACS guidelines for a minor in chemistry require 200 hours of laboratory work beyond the first year of general chemistry (ACS).

Code	Title	Hours
<b>Required Core Courses</b>		
CHEM 241	ORGANIC CHEMISTRY I	4
& CHML 241	and ORGANIC CHEMISTRY I LAB	
CHEM 242	ORGANIC CHEMISTRY II	4
& CHML 242	and ORGANIC CHEMISTRY II LAB	
CHEM 381	CHEMISTRY SEMINAR	0.5
CHEM 382	CHEMISTRY SEMINAR	0.5
<b>Elective Courses</b>		
Select three of the following Lecture and Lab Elective Courses:		
CHEM 320	ANALYTICAL CHEMISTRY	12
& CHML 320	and ANALYTICAL CHEMISTRY LAB	
CHEM 371	FORENSIC CHEMISTRY	
& CHML 371	and FORENSIC CHEMISTRY LAB	
CHEM 340	INORGANIC CHEMISTRY I	
& CHML 341	and PHYSICAL CHEMISTRY I LAB	
CHEM 341	PHYSICAL CHEMISTRY I	
& CHML 341	and PHYSICAL CHEMISTRY I LAB	
CHEM 342	PHYSICAL CHEMISTRY II	
& CHML 342	and PHYSICAL CHEMISTRY II LAB	

CHEM 421 & CHML 421	CHEMICAL INSTRUMENTATION and CHEMICAL INSTRUMENTATION LAB	
CHEM 431 & CHML 431	BIOCHEMISTRY I and BIOCHEMISTRY I LAB	
CHEM 410	ENVIRONMENTAL CHEMISTRY	3

**Total Hours 24**

## Earth System Science (B.S.)

### Major Requirements

Code	Title	Hours
MET 200	INTRO TO METEOROLOGY	3
MET 210	CLIMATOLOGY	3
METL 219	WEATHER ANALYS/FORECASTG LAB I	1
SCI 205 & SCIL 205	EARTH & SPACE SCIENCE and EARTH & SPACE SCIENCE LAB	4
SCI 215	GLOBAL CHANGE	3
SCI 310 & SCIL 310	EARTH HISTORY and EARTH HISTORY LAB	4
SCI 320	SEDIMENTARY ENVIRONMENTS	3
SCI 325	MINERALOGY PETROLOGY	3
SCI 331	INTRO TO GIS & REMOTE SENSING	3
SCI 410	MET&CUR MAT FOR SCIENCE CR	3
SCI 415	GEOCHEMISTRY	2
SCI 420	STRUCTURAL GEOLOGY	3
SCI 425	ENVIRONMENTAL GEOLOGY	2
SCI 432	HYDROLOGY	3
SCI 480	EARTH SCIENCE SEMINAR	1
SCI Elective		6
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
PHY 241	INTRODUCTN TO ASTRONOMY	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
MATH 241	CALCULUS I WITH LABORATORY	3
MATH 242	CALCULUS II WITH LABORATORY	3

**Total Hours 69**

### Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Spring</b>		
BIO 114	Introduction to Marine & Environmental Sciences	3
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 241	CALCULUS I WITH LABORATORY	3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Fall</b>		
MATH 118	ALGEBRA II & TRIGONOMETRY	5
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4

UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>17</b>

**Sophomore**

<b>Spring</b>		
SCI 205 & SCIL 205	EARTH & SPACE SCIENCE and EARTH & SPACE SCIENCE LAB	4
Speech Arts		3
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
Restricted Elective		3
<b>Hours</b>		<b>18</b>

**Fall**

MATH 242	CALCULUS II WITH LABORATORY	3
MET 200	INTRO TO METEOROLOGY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
SCI 215	GLOBAL CHANGE	3
Pathway Option		3
<b>Hours</b>		<b>16</b>

**Junior**

<b>Spring</b>		
SCI 320	SEDIMENTARY ENVIRONMENTS	3
SCI 325	MINERALOGY PETROLOGY	3
MET 210	CLIMATOLOGY	3
Social & Behavioral Science Option		3
Restrictive Elective		3
<b>Hours</b>		<b>15</b>

**Fall**

BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
Social & Behavioral Science Option		3
PHY 241	INTRODUCTN TO ASTRONOMY	4
SCI 310 & SCIL 310	EARTH HISTORY and EARTH HISTORY LAB	4
<b>Hours</b>		<b>15</b>

**Senior**

<b>Spring</b>		
SCI 425	ENVIRONMENTAL GEOLOGY	2
SCI 432	HYDROLOGY	3
SCI 480	EARTH SCIENCE SEMINAR	1
Restrictive Elective		3
Humanities & Fine Arts Option		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>15</b>

**Fall**

SCI 410	MET&CUR MAT FOR SCIENCE CR	3
SCI 415	GEOCHEMISTRY	2
SCI 420	STRUCTURAL GEOLOGY	3
SCI 331	INTRO TO GIS & REMOTE SENSING	3
Restrictive Elective		3
<b>Hours</b>		<b>14</b>

**Total Hours 126**

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

**Restrictive Elective Options**

Students must choose twelve (12) hours of restrictive electives course options from the list below:

Code	Title	Hours
BIO 103	ENVIRONMENTAL SCIENCE	2
BIO 201	INTRO TO ENVIRONMENTAL SCIENCE	3
BIO 404	ENVIRONMENTAL SCIENCE	3
BIO 412	NATURAL RES & CONS	3
CHEM 410	ENVIRONMENTAL CHEMISTRY	3
CIV 222	ENGINEERING MECHANICS I	3
CIV 310	ENGINEERING SURVEYING	2
CIV 380	INTRO TO GEOTECHNICAL ENGINEER	3
CSC 118	COMPUTER SCIENCE I	3
CSC 119	COMPUTER SCIENCE II	3
CSC 215	DATA ANALYTICS	3
CSC 245	INTRODUCTION TO BIOINFORMATICS	3
MET 303	MEASUREMENTS & OBSERVATIONS	3
PHY 361	MATH MET OF PHYSICS & CHEMISTRY	3
PHY 362	MATH MET OF PHYSICS & CHEMISTRY	3
PHY 380	INDEPENDENT STUDY	1-6
PHY 480	RESEARCH PROJECT	3

**Student Learning Outcomes**

**Student Learning Outcome 1**

Students know characteristics and are able to identify common Earth rocks and minerals.

**Student Learning Outcome 2**

Students know the physical and chemical characteristics of Earth’s crust, mantle, and core.

**Student Learning Outcome 3**

Students are familiar with the physical and chemical characteristics of Earth’s waters in oceans, lakes, rivers, and underground.

**Student Learning Outcome 4**

Students become familiar with Earth’s atmosphere including air composition, weather patterns, and short –long term climate changes.

**Student Learning Outcome 5**

Students know events that shaped the Earth during the past 4.5 Billion years.

**Meteorology (B.S.)**

The Jackson State University’s Atmospheric Science/ Meteorology Program consists of several significant components including basic curricula, academic support, research, and outreach. When integrated together, these components provide a supportive framework for the preparation of minority atmospheric scientists. Programmatic emphases include a strong commitment to student learning and professional preparation, increasing the number of African American atmospheric scientists, increasing the number of African American graduate students

in atmospheric science, and an expansion of research and development with regard to basic and applied research, computer-related training strategies, and outreach and cooperative efforts. The Bachelor of Science in Meteorology program’s primary objective is to prepare students for careers in meteorology and to prepare students for graduate study in meteorology or in related fields. Alternative careers could also include teaching, medicine, law (especially intellectual property or patent law), science writing, history of science, philosophy of science, science policy, energy policy, government, or management in technical fields.

**Major Requirements**

Code	Title	Hours
MET 200	INTRO TO METEOROLOGY	4
& METL 200	and ATMOSPHERIC PROC & PTTRNS LAB	
MET 210	CLIMATOLOGY	3
METL 219	WEATHER ANALYS/FORECASTG LAB I	1
MET 270	COMPUTNAL DATA ANALYS VISUALI	3
METL 299	WEATHER ANALS/FORECASTG LAB II	1
MET 303	MEASUREMENTS & OBSERVATIONS	4
& METL 303	and MEASUREMENTS & OBSRVTNS LAB	
MET 311	GENERAL METEOROLOGY	3
MET 321	ATMOSPHERIC THERMODYNAMICS	3
MET 341	DYNAMIC METEOROLOGY	3
MET 411	PHYSICAL METEOROLOGY	3
MET 421	INTRO TO SYN METEOROLOGY	5
& METL 421	and SYNOPTIC METEOROLOGY LAB	
METL 399	WEATHER ANAL/FORECASTG LAB III	1
MET 431	NUMERICAL METHODS	3
MET 472	RES METHD IN METEOROLOGY	1
MET 499	SEMINAR IN ATMOSPHERIC SCIENCE	1
SCI 331	INTRO TO GIS & REMOTE SENSING	3
MET Elective		6
PHY 211	General Physics I	4
& PHYL 211	and GENERAL PHYSICS LAB I	
PHY 212	General Physics II	4
& PHYL 212	and GENERAL PHYSICS LAB II	
MATH 242	CALCULUS II WITH LABORATORY	3
MATH 243	CALCULUS III WITH LABORATORY	3
MATH 244	CALCULUS IV WITH LABORATORY	3
MATH 355	PROBABILITY&STATISTICS I	3
MATH 368	DIFFERENTIAL EQUATIONS	3
<b>Total Hours</b>		<b>71</b>

**Curriculum Map**

Course	Title	Hours
<b>Freshman</b>		
<b>Spring</b>		
CHEM 142	GENERAL CHEMISTRY II	4
& CHML 142	and GENERAL CHEMISTRY II LAB	
ENG 105	COMPOSITION II	3
or ENG 112	or COMPOSITION	
MET 210	CLIMATOLOGY	3
METL 219	WEATHER ANALYS/FORECASTG LAB I	1
MET 270	COMPUTNAL DATA ANALYS VISUALI	3
Pathway Option		3
<b>Hours</b>		<b>17</b>

<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
MATH 241	CALCULUS I WITH LABORATORY	3
MET 200 & METL 200	INTRO TO METEOROLOGY and ATMOSPHERIC PROC & PTRNS LAB	4
UNIV 100	UNIVERSITY SUCCESS	2
<b>Hours</b>		<b>16</b>

**Sophomore**

<b>Spring</b>		
MATH 243	CALCULUS III WITH LABORATORY	3
MET 311	GENERAL METEOROLOGY	3
METL 299	WEATHER ANALS/FORECASTG LAB II	1
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
UNIV 200		1
Pathway Option		3
<b>Hours</b>		<b>15</b>

<b>Fall</b>		
MATH 242	CALCULUS II WITH LABORATORY	3
MET 303 & METL 303	MEASUREMENTS & OBSERVATIONS and MEASUREMENTS & OBSRVTNS LAB	4
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>

<b>Junior</b>		
<b>Spring</b>		
MATH 355	PROBABILITY&STATISTICS I	3
MET 341	DYNAMIC METEOROLOGY	3
Social & Behavioral Science		3
MET 399 Weather Analysis & Forecasting Lab		1
Meteorology Elective		3
Restricted Elective		3
<b>Hours</b>		<b>16</b>

<b>Fall</b>		
MATH 244	CALCULUS IV WITH LABORATORY	3
MET 321	ATMOSPHERIC THERMODYNAMICS	3
METL 399	WEATHER ANAL/FORECASTG LAB III	1
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Meteorology Elective		3
<b>Hours</b>		<b>16</b>

<b>Senior</b>		
<b>Spring</b>		
MET 431	NUMERICAL METHODS	3
MET 499	SEMINAR IN ATMOSPHERIC SCIENCE	1
SCI 331	INTRO TO GIS & REMOTE SENSING	3
Restricted Elective		3
Restricted Elective		3
<b>Hours</b>		<b>13</b>

<b>Fall</b>		
MATH 368	DIFFERENTIAL EQUATIONS	3
MET 411	PHYSICAL METEOROLOGY	3
MET 421 & METL 421	INTRO TO SYN METEOROLOGY and SYNOPTIC METEOROLOGY LAB	5
MET 472	RES METHD IN METEOROLOGY	1

Humanities & Fine Arts Option	3
<b>Hours</b>	<b>15</b>
<b>Total Hours</b>	<b>125</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course
- Online Graduation Clearance (**to be completed during the graduating semester only**).

**Meteorology Restricted Elective Options:**

Code	Title	Hours
Any ITEM, ITHM, and MATH course above 244		3
ITEM 301	PRINCIPLES OF EMERGENCY MNGT	3
ITEM 303	COMMUNITY EMERGENCY RESPN TEAM	3
ITEM 401	APP OF EMRGNCY MNGT CMPTR TEC	3
ITHM 300	PRIN OF HAZARDOUS MATERLS MNGT	3
ITHM 405	RISK ASSESSMENT	3
ITMA 410	1ST LINE SUPRVSN & FRMAN	3
CSC 118	COMPUTER SCIENCE I	3
CSC 119	COMPUTER SCIENCE II	3
CSC 215	DATA ANALYTICS	3
CSC 228	DATA STRUCTURES & ALGORITHMS	3
CSC 235	SECURITY AWARENESS	3
CSC 245	INTRODUCTION TO BIOINFORMATICS	3
CSC 330	DATABASE SYSTEMS	3

**Student Learning Outcomes****Student Learning Outcome 1**

Students completing a BS degree in Meteorology will apply mathematics and science knowledge to solve problems that require critical and analytical thinking.

**Student Learning Outcome 2**

Students completing a BS degree in Meteorology will have a broad knowledge of global perspectives and obtain experimental learning within the international scientific community

**Student Learning Outcome 3**

Students completing a BS degree in Meteorology will be prepared to enter the workforce and/or engage in advanced studies and research.

**Student Learning Outcome 4**

Students completing a BS degree in Meteorology will exhibit effective communication skills and be committed to ethical scientific practices

**Physics (B.S.) General**

The Physics departmental philosophy is that each student should be able to reason, collect facts and opinions, think critically, and make informed decisions concerning their physical, social, economic, and political environment. The objective of the Bachelor of Science in Physics program is to prepare students for careers in physics research, engineering, medicine, and other professional fields including physics teaching in high schools. Physics courses prepare students with good mathematical and analytical skills. In every skilled profession, such as engineering, medicine, management, teaching, etc., analytical expertise gained through

mathematics and physics courses will provide an added opportunity/tool to choose and succeed in that profession. A thorough study of mechanics, statistical physics, modern physics, electromagnetic theory, and quantum mechanics along with introductory physics courses and introductory math courses enhances students' ability and updates modern technological innovations needed to succeed in alternate career choices.

Alternative physics careers include teaching, medicine, law (especially intellectual property or patent law), science writing, history of science, philosophy of science, science policy, energy policy, government, or management in technical fields.

## Requirements for the Major

To receive the BS or BS Ed degree, a student must maintain an overall GPA of at least 2.0 and at least 2.5 in all core science, technology, engineering, and math courses. The total number of hours of coursework for the BS or BS Ed is at least 124 semester hours.

## Major Requirements

Code	Title	Hours
PHY 198	PHYSICS STUDENT SEMINAR	0.5
PHY 199	PHYSICS STUDENT SEMINAR	0.5
PHY 298	PHYSICS STUDENT SEMINAR	0.5
PHY 299	PHYSICS STUDENT SEMINAR	0.5
PHY 398	PHYSICS STUDENT SEMINAR	0.5
PHY 399	PHYSICS STUDENT SEMINAR	0.5
PHY 498	PHYSICS STUDENT SEMINAR	0.5
PHY 499	PHYSICS STUDENT SEMINAR	0.5
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
PHY 216	MODERN PHYSICS	3
PHY 311	THEORETICAL MECHANICS I	3
PHY 330	METHODS OF EXPERIMENTAL PHYSICS	3
PHY 351	THERMAL PHYSICS	3
PHY 361	MATH MET OF PHYSICS & CHEMISTRY	3
PHY 411	ELECTROMAGNETIC THEORY I	3
PHY 422	QUANTUM MECHANICS	3
PHY 431	ATOMIC & NUCLEAR PHYSICS	3
MATH 242	CALCULUS II WITH LABORATORY	3
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
<b>Total Hours</b>		<b>43</b>

## General Physics Concentration

Code	Title	Hours
PHY 297	Research Methods in Physics	2
PHY 312	THEORETICAL MECHANICS II	3
PHY 362	MATH MET OF PHYSICS & CHEMISTRY	3
PHY 342	OPTICS SPECTRA & LASERS	3
PHY 380	INDEPENDENT STUDY	1-6
PHY 412	ELECTROMAGNETIC THEORY II	3
Physics Elective		3
Physics Elective		3

MATH 243	CALCULUS III WITH LABORATORY	3
MATH 244	CALCULUS IV WITH LABORATORY	3
<b>Total Hours</b>		<b>27-32</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 241	CALCULUS I WITH LABORATORY	3
PHY 198	PHYSICS STUDENT SEMINAR	0.5
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>15.5</b>
<b>Spring</b>		
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 199	PHYSICS STUDENT SEMINAR	0.5
Pathway Option		3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
<b>Hours</b>		<b>17.5</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
MATH 243	CALCULUS III WITH LABORATORY	3
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
PHY 298	PHYSICS STUDENT SEMINAR	0.5
Pathway Option		3
<b>Hours</b>		<b>14.5</b>
<b>Spring</b>		
MATH 244	CALCULUS IV WITH LABORATORY	3
PHY 216	MODERN PHYSICS	3
PHY 299	PHYSICS STUDENT SEMINAR	0.5
PHY 297	Research Methods in Physics	2
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15.5</b>
<b>Junior</b>		
<b>Fall</b>		
PHY 311	THEORETICAL MECHANICS I	3
PHY 351	THERMAL PHYSICS	3
PHY 361	MATH MET OF PHYSICS & CHEMISTRY	3
PHY 398	PHYSICS STUDENT SEMINAR	0.5
Physics Elective		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>15.5</b>
<b>Spring</b>		
PHY 312	THEORETICAL MECHANICS II	3
PHY 330	METHODS OF EXPERIMENTAL PHYSICS	3
PHY 342	OPTICS SPECTRA & LASERS	3
PHY 362	MATH MET OF PHYSICS & CHEMISTRY	3

PHY 399	PHYSICS STUDENT SEMINAR	0.5
Social & Behavioral Science Option		3
<b>Hours</b>		<b>15.5</b>
<b>Senior</b>		
<b>Fall</b>		
PHY 411	ELECTROMAGNETIC THEORY I	3
PHY 422	QUANTUM MECHANICS	3
PHY 498	PHYSICS STUDENT SEMINAR	0.5
Physics Elective		3
Restricted Electives		3
General Elective		3
<b>Hours</b>		<b>15.5</b>
<b>Spring</b>		
PHY 412	ELECTROMAGNETIC THEORY II	3
PHY 431	ATOMIC & NUCLEAR PHYSICS	3
PHY 499	PHYSICS STUDENT SEMINAR	0.5
Humanities & Fine Arts Option		3
Restricted Elective		3
<b>Hours</b>		<b>12.5</b>
<b>Total Hours</b>		<b>122</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

Code	Title	Hours
<b>Restricted Elective Course Options:</b>		
ECE 220	CIRCUIT THEORY	3
ECEL 220	CIRCUITS LABORATORY	1
ECE 320	CIRCUIT THEORY II	3
ECE 330	ELECTRONICS	3
ECEL 330	ELECTRONICS LABORATORY	1
ECE 331	ELECTRONICS II	3
ECE 335	SEMICONDUCTOR DEVICES	3
ECE 345	ELECTROMAGNETIC FIELDS	3
ECE 480	POWER SYSTEM ANALYSIS	3
ECE 481	ELECTRIC MACHINES	3
CSC 118	COMPUTER SCIENCE I	3
CSC 119	COMPUTER SCIENCE II	3
CSC 215	DATA ANALYTICS	3
CSC 225	DISCRETE STRUCTURES	3
CSC 228	DATA STRUCTURES & ALGORITHMS	3
CSC 235	SECURITY AWARENESS	3
CSC 245	INTRODUCTION TO BIOINFORMATICS	3
CSC 330	DATABASE SYSTEMS	3
Any Math course that is MATH 240 or higher		3-4

**Student Learning Outcomes****Student Learning Outcome 1**

Students completing a BS degree in Physics will apply mathematics and science knowledge to solve problems that require critical and analytical thinking.

**Student Learning Outcome 2**

Students completing a BS degree in CPAS will have a broad knowledge of global perspectives as they relate to their field of study and obtain experimental learning within the international scientific community.

**Student Learning Outcome 3**

Students completing a BS degree in CPAS will be prepared to enter the workforce in their field and/or engage in advanced studies and research in their fields.

## Physics (B.S.) STEMBA

### Requirements for the Major

To receive the BS or BS Ed degree, a student must maintain an overall GPA of at least 2.0 and at least 2.5 in all core science, technology, engineering, and math courses. The total number of hours of coursework for the BS or BS Ed is at least 124 semester hours. In addition, to receive the BS Ed degree a student must be admitted to the Teacher Education Program, which is sought through the College of Education and Human Development. Students interested in entering teacher education should see the Requirements for Admission to Teacher Education in this issue of the Jackson State University Undergraduate Catalog under the College of Education and Human Development.

## Major Requirements (Physics STEMBA) Business Management

Code	Title	Hours
PHY 216	MODERN PHYSICS	3
PHY 411	ELECTROMAGNETIC THEORY I	3
PHY 422	QUANTUM MECHANICS	3
PHY 431	ATOMIC & NUCLEAR PHYSICS	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
ECO 212	PRINCIPLES OF MICROECONOMICS	3
MKT 351	MARKETING MANAGEMENT	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
FIN 320	BUSINESS FINANCE	3
MNGT 502	HUMAN RELATIONS & ORGAN BEHAVI	3
MNGT 516	STATISTICS BUSINESS DECS	3
PHY 198	PHYSICS STUDENT SEMINAR	0.5
PHY 199	PHYSICS STUDENT SEMINAR	0.5
CHML 142	GENERAL CHEMISTRY II LAB	1
CHEM 142	GENERAL CHEMISTRY II	3
BIO 111	GENERAL BIOLOGY	3
BIOL 111	GENERAL BIOLOGY LAB	1
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 212	General Physics II	3
PHYL 212	GENERAL PHYSICS LAB II	1
PHY 298	PHYSICS STUDENT SEMINAR	0.5
PHY 299	PHYSICS STUDENT SEMINAR	0.5
PHY 311	THEORETICAL MECHANICS I	3
PHY 398	PHYSICS STUDENT SEMINAR	0.5
PHY 399	PHYSICS STUDENT SEMINAR	0.5
PHY 330	METHODS OF EXPERIMENTAL PHYICS	3
PHY 498	PHYSICS STUDENT SEMINAR	0.5

PHY 499 PHYSICS STUDENT SEMINAR 0.5

**Total Hours 64**

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103	COMPOSITION I or English Composition I with Co-requisite Support	3
MATH 241	CALCULUS I WITH LABORATORY	3
PHY 198	PHYSICS STUDENT SEMINAR	0.5
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>15.5</b>

<b>Spring</b>		
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ECO 211	PRINCIPLES OF MACROECONOMICS	3
ENG 105	COMPOSITION II	3
PHY 199	PHYSICS STUDENT SEMINAR	0.5
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Pathway Option		3
<b>Hours</b>		<b>17.5</b>

<b>Sophomore</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
ECO 212	PRINCIPLES OF MICROECONOMICS	3
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
PHY 298	PHYSICS STUDENT SEMINAR	0.5
Pathway Options		3
<b>Hours</b>		<b>17.5</b>

<b>Spring</b>		
MKT 351	MARKETING MANAGEMENT	3
PHY 216	MODERN PHYSICS	3
PHY 299	PHYSICS STUDENT SEMINAR	0.5
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16.5</b>

<b>Junior</b>		
<b>Fall</b>		
PHY 311	THEORETICAL MECHANICS I	3
PHY 351	THERMAL PHYSICS	3
PHY 361	MATH MET OF PHYSICS & CHEMISTRY	3
PHY 398	PHYSICS STUDENT SEMINAR	0.5
Physics Elective		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>15.5</b>

<b>Spring</b>		
ACC 211	PRINCIPLES OF FINANCIAL ACCTNG	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
PHY 330	METHODS OF EXPERIMENTAL PHYSICS	3
PHY 399	PHYSICS STUDENT SEMINAR	0.5
Physics Elective		3
<b>Hours</b>		<b>12.5</b>

<b>Senior</b>		
<b>Fall</b>		
ACC 212	PRINCIPLES OF MANGERIAL ACCTNG	3
FIN 320	BUSINESS FINANCE	3
PHY 411	ELECTROMAGNETIC THEORY I	3
PHY 422	QUANTUM MECHANICS	3
PHY 498	PHYSICS STUDENT SEMINAR	0.5
Social & Behavioral Science Option		3
<b>Hours</b>		<b>15.5</b>

<b>Spring</b>		
MNGT 502	HUMAN RELATIONS & ORGAN BEHAVI	3
MNGT 516	STATISTICS BUSINESS DECS	3
PHY 431	ATOMIC & NUCLEAR PHYSICS	3
PHY 499	PHYSICS STUDENT SEMINAR	0.5
Physics Elective		3
<b>Hours</b>		<b>12.5</b>
<b>Total Hours</b>		<b>123</b>

- Notes:**
- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
  - Online Graduation Clearance (**to be completed during the graduating semester only**).

Code	Title	Hours
<b>Physics Electives</b>		
Students must choose nine (9) hours of Physics Elective		
PHY 241	INTRODUCTN TO ASTRONOMY	4
PHY 312	THEORETICAL MECHANICS II	3
PHY 362	MATH MET OF PHYSICS&CHEMISTRY	3
PHY 412	ELECTROMAGNETIC THEORY II	3
PHY 449	SPECIL TOPICS IN PHYSICS	3

**Concentration StemBA**

Course	Title	Hours
<b>First Year</b>		
MKT 530	MANAGERIAL MARKETING	3
ACC 540	ADV MANAGERIAL ACCOUNTNG	3
MNGT 520	ADVANCED PRODUCTION MANAGEMENT	3
Restricted Elective		3
<b>Hours</b>		<b>12</b>
<b>Second Year</b>		
ECO 530	MANAGERIAL ECONOMICS	3
FIN 515	MANAGERIAL FINANCE	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
MNGT 560	BUSINESS POLICY	3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>24</b>

Code	Title	Hours
<b>MBA Electives</b>		
Restricted Electives for MBA (6 credit hours); Choose any two from the following:		
ECO 511	MACROECONOMICS THEORY	3
ACC 540	ADV MANAGERIAL ACCOUNTNG	3
FIN 561	SEM N BUS ADMN & RESEARCH PROJ	3
Any Accounting Elective		3



Any Economics Elective	3
Any Entrepreneurship Elective	3
Any Management Elective	3
Any Marketing Elective	3

## Student Learning Outcomes

### Student Learning Outcome 1

Students completing a BS degree in Physics will apply mathematics and science knowledge to solve problems that require critical and analytical thinking.

### Student Learning Outcome 2

Students completing a BS degree in CPAS will have a broad knowledge of global perspectives as they relate to their field of study and obtain experimental learning within the international scientific community.

### Student Learning Outcome 3

Students completing a BS degree in CPAS will be prepared to enter the workforce in their field and/or engage in advanced studies and research in their fields.

## Physics (B.S.) Pre-Med with Biology Requirements for the Major

To receive the BS or BS Ed degree, a student must maintain an overall GPA of at least 2.0 and at least 2.5 in all core science, technology, engineering, and math courses. The total number of hours of coursework for the BS or BS Ed is at least 124 semester hours. In addition, to receive the BS Ed degree a student must be admitted to the Teacher Education Program, which is sought through the College of Education and Human Development. Students interested in entering teacher education should see the Requirements for Admission to Teacher Education in this issue of the Jackson State University Undergraduate Catalog under the College of Education and Human Development.

## Major Requirements

Code	Title	Hours
<b>Physics Seminar</b>		
Select four credits from the following:		
PHY 198	PHYSICS STUDENT SEMINAR	
PHY 199	PHYSICS STUDENT SEMINAR	
PHY 201	BASIC PHYSICS I	
PHY 202	BASIC PHYSICS II	
PHY 205	BASIC PHYSICS	
PHY 211	General Physics I	
PHY 212	General Physics II	
PHY 216	MODERN PHYSICS	
PHY 241	INTRODUCTN TO ASTRONOMY	
PHY 251	COSMOLOGY FOR NON-SCIENTISTS	
PHY 298	PHYSICS STUDENT SEMINAR	
PHY 299	PHYSICS STUDENT SEMINAR	
PHY 311	THEORETICAL MECHANICS I	
PHY 312	THEORETICAL MECHANICS II	
PHY 330	METHODS OF EXPERIMENTAL PHYICS	
PHY 342	OPTICS SPECTRA & LASERS	
PHY 351	THERMAL PHYSICS	

PHY 361	MATH MET OF PHYSICS & CHEMISTRY	
PHY 362	MATH MET OF PHYSICS & CHEMISTRY	
PHY 380	INDEPENDENT STUDY	
PHY 398	PHYSICS STUDENT SEMINAR	
PHY 399	PHYSICS STUDENT SEMINAR	
PHY 411	ELECTROMAGNETIC THEORY I	
PHY 412	ELECTROMAGNETIC THEORY II	
PHY 422	QUANTUM MECHANICS	
PHY 431	ATOMIC & NUCLEAR PHYSICS	
PHY 433	SOLID STATE PHYSICS	
PHY 449	SPECIL TOPICS IN PHYSICS	
PHY 480	RESEARCH PROJECT	
PHY 481	PHYS. SCI. FOR SEC. TEACHERS I	
PHY 482	PHY SCI FOR SEC TEACHERS II	
PHY 498	PHYSICS STUDENT SEMINAR	
PHY 499	PHYSICS STUDENT SEMINAR	
PHY 211 & PHY 212	General Physics I and General Physics II	6
PHYL 211 & PHYL 212	GENERAL PHYSICS LAB I and GENERAL PHYSICS LAB II	2
PHY 311	THEORETICAL MECHANICS I	3
PHY 330	METHODS OF EXPERIMENTAL PHYICS	3
PHY 351	THERMAL PHYSICS	3
PHY 361	MATH MET OF PHYSICS & CHEMISTRY	3
PHY 411	ELECTROMAGNETIC THEORY I	3
PHY 422	QUANTUM MECHANICS	3
PHY 431	ATOMIC & NUCLEAR PHYSICS	3
Physics Elective		6
<b>Total Hours</b>		<b>35</b>

Code	Title	Hours
CHEM 241 & CHEM 242	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II	6
CHML 241 & CHML 242	ORGANIC CHEMISTRY I LAB and ORGANIC CHEMISTRY II LAB	2
CHEM 431 & CHML 431	BIOCHEMISTRY I and BIOCHEMISTRY I LAB	4
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 318 & BIOL 318	INTRODUCTORY GENETICS and INTRODUCTORY GENETICS LAB	4
BIO 470 & BIOL 470	HUMAN PHYSIOLOGY and HUMAN PHYSIOLOGY LAB	4
<b>Total Hours</b>		<b>24</b>

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 241	CALCULUS I WITH LABORATORY	3
PHY 198	PHYSICS STUDENT SEMINAR	0.5
UNIV 100	UNIVERSITY SUCCESS	2

Humanities & Fine Arts Option		3
<b>Hours</b>		<b>15.5</b>
<b>Spring</b>		
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
PHY 199	PHYSICS STUDENT SEMINAR	0.5
Pathway Option		3
<b>Hours</b>		<b>17.5</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
Pathway Option		3
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
PHY 298	PHYSICS STUDENT SEMINAR	0.5
<b>Hours</b>		<b>15.5</b>
<b>Spring</b>		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
PHY 299	PHYSICS STUDENT SEMINAR	0.5
UNIV 200	CIVIC ENGAGEMENT	1
Physics Elective		3
Pathway Option		3
<b>Hours</b>		<b>15.5</b>
<b>Junior</b>		
<b>Fall</b>		
BIO 318 & BIOL 318	INTRODUCTORY GENETICS and INTRODUCTORY GENETICS LAB	4
CHEM 431 & CHML 431	BIOCHEMISTRY I and BIOCHEMISTRY I LAB	4
PHY 311	THEORETICAL MECHANICS I	3
PHY 351	THERMAL PHYSICS	3
PHY 361	MATH MET OF PHYSICS & CHEMISTRY	3
PHY 398	PHYSICS STUDENT SEMINAR	0.5
<b>Hours</b>		<b>17.5</b>
<b>Spring</b>		
BIO 440	CELL BIOLOGY	3
Humanities & Fine Arts Option		3
BIO 470	HUMAN PHYSIOLOGY	3
PHY 330	METHODS OF EXPERIMENTAL PHYSICS	3
PHY 342	OPTICS SPECTRA & LASERS	3
PHY 399	PHYSICS STUDENT SEMINAR	0.5
<b>Hours</b>		<b>15.5</b>
<b>Senior</b>		
<b>Fall</b>		
PHY 411	ELECTROMAGNETIC THEORY I	3
PHY 422	QUANTUM MECHANICS	3
PHY 498	PHYSICS STUDENT SEMINAR	0.5
PSY 201 or Social & Behavioral Science Option		3
Physics Elective		3
<b>Hours</b>		<b>12.5</b>
<b>Spring</b>		
PHY 431	ATOMIC & NUCLEAR PHYSICS	3

PHY 499	PHYSICS STUDENT SEMINAR	0.5
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Statistics Option		3
<b>Hours</b>		<b>12.5</b>
<b>Total Hours</b>		<b>122</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

Code	Title	Hours
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*Physics Electives*

Students must choose six (6) hours of Physics Electives from the course option list below.

PHY 241	INTRODUCTN TO ASTRONOMY	4
PHY 312	THEORETICAL MECHANICS II	3
PHY 362	MATH MET OF PHYSICS&CHEMISTRY	3
PHY 412	ELECTROMAGNETIC THEORY II	3
PHY 449	SPECIL TOPICS IN PHYSICS	3

Code	Title	Hours
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**Statistics Options (Choose one 3 credit hour course)**

PSY 211	STATISTICS I	3
MATH 271	ELEMENTARY STATISTICS I	3
BIO 202	ELEMENTARY BIOSTATISTICS	3

**Student Learning Outcomes****Student Learning Outcome 1**

Students completing a BS degree in Physics will apply mathematics and science knowledge to solve problems that require critical and analytical thinking.

**Student Learning Outcome 2**

Students completing a BS degree in CPAS will have a broad knowledge of global perspectives as they relate to their field of study and obtain experimental learning within the international scientific community.

**Student Learning Outcome 3**

Students completing a BS degree in CPAS will be prepared to enter the workforce in their field and/or engage in advanced studies and research in their fields.

**Physics Education (B.S.Ed.)****Requirements for the Major**

To receive the BS or BS Ed degree, a student must maintain an overall GPA of at least 2.0 and at least 2.5 in all core science, technology, engineering, and math courses. The total number of hours of coursework for the BS or BS Ed is at least 124 semester hours. In addition, to receive the BS Ed degree a student must be admitted to the Teacher Education Program, which is sought through the College of Education and Human Development. Students interested in entering teacher education should see the Requirements for Admission to Teacher Education in this

issue of the Jackson State University Undergraduate Catalog under the College of Education and Human Development.

## Major Requirements

Code	Title	Hours
PHY 198	PHYSICS STUDENT SEMINAR	0.5
PHY 199	PHYSICS STUDENT SEMINAR	0.5
PHY 298	PHYSICS STUDENT SEMINAR	0.5
PHY 299	PHYSICS STUDENT SEMINAR	0.5
PHY 398	PHYSICS STUDENT SEMINAR	0.5
PHY 399	PHYSICS STUDENT SEMINAR	0.5
PHY 498	PHYSICS STUDENT SEMINAR	0.5
PHY 499	PHYSICS STUDENT SEMINAR	0.5
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
PHY 212 & PHYL 211	General Physics II and GENERAL PHYSICS LAB I	4
PHY 216	MODERN PHYSICS	3
PHY 311	THEORETICAL MECHANICS I	3
PHY 330	METHODS OF EXPERIMENTAL PHYICS	3
PHY 342	OPTICS SPECTRA & LASERS	3
PHY 351	THERMAL PHYSICS	3
PHY 361	MATH MET OF PHYSICS & CHEMISTRY	3
PHY 411	ELECTROMAGNETIC THEORY I	3
PHY 422	QUANTUM MECHANICS	3
PHY 431	ATOMIC & NUCLEAR PHYSICS	3
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
MATH 242	CALCULUS II WITH LABORATORY	3

**Total Hours 46**

Code	Title	Hours
EDCI 100	INTRODUCTION TO EDUCATION	3
SS 203	HISTORICAL&CULTURAL FOUNDATNS	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
ETEC 336	ADV MULTIMEDIA IN CLASSROOM	3
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
RE 310	TCHNG READING IN CONTENT AREAS	3
SS 301	INQRY-BASED INSTRN N GEOG & CE	3
COUN 315	Human Growth and Development	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
Physics Elective		3

**Total Hours 45**

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4

ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
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MATH 241	CALCULUS I WITH LABORATORY	3
PHY 198	PHYSICS STUDENT SEMINAR	0.5
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3

**Hours 15.5**

Spring		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 199	PHYSICS STUDENT SEMINAR	0.5
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Humanities & Fine Arts Option		3
Pathway Option		3

**Hours 16.5**

Sophomore		
<b>Fall</b>		
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
EDCI 100	INTRODUCTION TO EDUCATION	3
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
PHY 298	PHYSICS STUDENT SEMINAR	0.5
SS 203	HISTORICAL&CULTURAL FOUNDATNS	3
Pathway Option		3

**Hours 17.5**

Spring		
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ETEC 336 or CSC 118	ADV MULTIMEDIA IN CLASSROOM or COMPUTER SCIENCE I	3
PHY 299	PHYSICS STUDENT SEMINAR	0.5
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Pathway Option		3

**Hours 17.5**

Junior		
<b>Fall</b>		
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
PHY 311	THEORETICAL MECHANICS I	3
PHY 351	THERMAL PHYSICS	3
PHY 398	PHYSICS STUDENT SEMINAR	0.5
Social & Behavioral Science Option		3

**Hours 15.5**

Spring		
PHY 330	METHODS OF EXPERIMENTAL PHYICS	3
PHY 380	INDEPENDENT STUDY	1
PHY 399	PHYSICS STUDENT SEMINAR	0.5
RE 310	TCHNG READING IN CONTENT AREAS	3
SS 301	INQRY-BASED INSTRN N GEOG & CE	3
Physics Elective		3

**Hours 13.5**

Senior		
<b>Fall</b>		
COUN 315	Human Growth and Development	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3

PHY 361	MATH MET OF PHYSICS & CHEMISTRY	3
PHY 498	PHYSICS STUDENT SEMINAR	0.5
Physics Elective		3
<b>Hours</b>		<b>12.5</b>
<b>Spring</b>		
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
PHY 499	PHYSICS STUDENT SEMINAR	0.5
<b>Hours</b>		<b>12.5</b>
<b>Total Hours</b>		<b>121</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

Code	Title	Hours
<i>Physics Elective Options</i>		
Students must chose six (6) hours of Physics Electives from the course list below.		
Any ITEM, ITHM, and MATH course above 244		3
ITEM 301	PRINCIPLES OF EMERGENCY MNGT	3
ITEM 303	COMMUNITY EMERGENCY RESPN TEAM	3
ITEM 401	APP OF EMRGNCY MNGT CMPTR TEC	3
ITHM 300	PRIN OF HAZARDOUS MATERLS MNGT	3
ITHM 402	INDUSTRIAL HYGIENE	3
ITMA 410	1ST LINE SUPRVSN & FRMAN	3
CSC 118	COMPUTER SCIENCE I	3
CSC 119	COMPUTER SCIENCE II	3
CSC 215	DATA ANALYTICS	3
CSC 228	DATA STRUCTURES & ALGORITHMS	3
CSC 235	SECURITY AWARENESS	3
CSC 245	INTRODUCTION TO BIOINFORMATICS	3
CSC 330	DATABASE SYSTEMS	3

**Student Learning Outcomes****Student Learning Outcome 1**

Students completing a BS degree in Physics will apply mathematics and science knowledge to solve problems that require critical and analytical thinking.

**Student Learning Outcome 2**

Students completing a BS degree in CPAS will have a broad knowledge of global perspectives as they relate to their field of study and obtain experimental learning within the international scientific community.

**Student Learning Outcome 3**

Students completing a BS degree in CPAS will be prepared to enter the workforce in their field and/or engage in advanced studies and research in their fields.

## Department of Civil and Environmental Engineering and Industrial Systems and Technology

Dr. Yadong Li  
Interim Department Chair  
yadong.li@jsums.edu  
(601) 979-1093

**Faculty of Department:**

D. Leszczynska<sup>1</sup>  
Y. Li, W. Zheng  
R. Whalin  
H. Shih  
F. Tuluri  
J. Murphy  
J. Ejwale  
M. Sadik Khan  
R. Talchabhadel  
W. Walters<sup>2</sup>  
K. Wen

<sup>1</sup> Joint appointment with the Environmental Science Program (Department of Biology).

<sup>2</sup> Joint appointment with the department of Chemistry, Physics, and Atmospheric Science.

- Civil Engineering (B.S.) Environmental Engineering Concentration (p. 179)
- Civil Engineering (B.S.) General Civil Engineering Concentration (p. 181)
- Industrial Technology (B.S.) Computer Technology Concentration (p. 184)
- Industrial Technology (B.S.) Electronic Systems Technology Concentration (p. 185)
- Industrial Technology (B.S.) Emergency Management Technology Concentration (p. 186)

## Civil Engineering (B.S.) Environmental Engineering Concentration

**Introduction/Mission**

The mission of the Civil Engineering Program is to prepare students for professional careers in civil engineering in the global society, and for life-long learning and continuous development in the profession through a comprehensive curriculum emphasizing basic engineering principles and fundamentals, practical design applications, communication skills, critical thinking, teamwork, laboratory skills, and professional and ethical issues.

The Programs offers two concentrations:

- General Civil Engineering
- Environmental Engineering

## Objectives

Graduates of JSU Civil Engineering Program are expected to:

1. Establish themselves as professionals actively engaging in problem solving to address the needs of society.
2. Progress in their civil engineering careers or other chosen professions and/or engaged in advanced studies in civil engineering or other related fields.
3. Demonstrate their ability to act professionally and ethically in making decisions and to practice life-long learning and continuing education.

## Accreditation

The Undergraduate Civil Engineering Program at JSU is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org> (<https://www.abet.org/>), under the commission's General Criteria and Program Criteria for Civil Engineering.

Code	Title	Hours
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
MATH 243	CALCULUS III WITH LABORATORY	3
MATH 244	CALCULUS IV WITH LABORATORY	3
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
BIO 101 & BIOL 101 or SCI 205	INTRO TO BIOLOGICAL SCIENCE and INTRO TO BIO SCI LAB EARTH & SPACE SCIENCE	3
CIV 222	ENGINEERING MECHANICS I	3
MATH 368	DIFFERENTIAL EQUATIONS	3
CIV 223	ENGINEERING MECHANICS II	3
CIV 201	ENGINEERING GRAPHICS	2
CIV 240	STRENGTH OF MATERIALS	3
CIV 330 & CIVL 330	FLUID MECHANICS LECTURE and FLUID MECHANICS LAB	4
MATH 307	PROBLYT & STATISTICS/ENGINEERG	3
CIV 320	STRUCTURAL ANALYSIS	3
CIV 340 & CIVL 340	INTRO TO ENVIRONMENTAL ENGINEE and ENVIRONMENTAL ENGINEERING LAB	4
CIV 360	DESIGN OF STEEL STRUCTURES	3
CIV 355	ENGINEERING ECONOMY	3
CIV 370	WATER RESOURCES ENGINEERING	3
CIV 380 & CIVL 380	INTRO TO GEOTECHNICAL ENGINEER and GEOTECHNICAL ENGINEERING LAB	4
CIV 390	INTRO TO TRNSPRTN ENGINEERING	3
CIV 410	CAPSTONE DESIGN I	3
CIV 411	CAPSTONE DESIGN II	3
CIV 430	FOUNDATION ENGINEERING	3
CIV 420	DESIGN OF CONCRETE STRUCTURES	3
CIV 461	PROF & ETHCL IS IN CIVIL ENGIN	1
CIVL 421	STRUCTURES & MATERIALS LAB	1

Civil Engineering Elective	12
<b>Total Hours</b>	<b>94</b>

## Civil Engineering Technical Electives

Code	Title	Hours
CIV 310 & CIVL 310	ENGINEERING SURVEYING and ENGINEERING SURVEYING LAB	3
CIV 431	TRAFFIC ENGINEERING	3
CIV 441	WATER AND WASTEWATER TREATMENT	3
CIV 451	COMPTR METHODS IN CIV ENGINEER	3
CIV 466	ADVD DESIGN OF HYDRAULIC STRUC	3
CIV 468	HAZARDOUS WASTE ENGINEERING	3
CIV 475	PAVEMENT DESIGN	3
CIV 476	ADVD DESIGN OF STEEL STRUCTURE	3
CIV 477	ADVD DESIGN OF CONCRETE STRUCT	3
CIV 481	SPCL PROBLEMS IN CIV ENGR	3
CIV 491	INTRNSHPS IN CIV ENGINEERING I	1-3
CIV 492	INTRNSHPS N CIV ENGINEERING II	1-3

- At least two civil engineering electives must be chosen from:

Code	Title	Hours
CIV 441	WATER AND WASTEWATER TREATMENT	3
CIV 468	HAZARDOUS WASTE ENGINEERING	3

The selection of other courses requires the approval of advisor and Dept. Chair.

- At least one civil engineering elective must be chosen from:

Code	Title	Hours
CIV 431	TRAFFIC ENGINEERING	3
CIV 475	PAVEMENT DESIGN	3

The selection of other courses requires the approval of advisor and Dept. Chair.

- The students are required to contact their advisors and department chair prior to taking any civil engineering elective.
- The students must take the Fundamentals of Engineering (FE) exam during the last semester, prior to graduation.
- Engineering classes are generally offered once a year.

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 241	CALCULUS I WITH LABORATORY	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
		<b>Hours</b>
		<b>15</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Pathway Option		3

Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIO 101 & BIOL 101 or SCI 205	INTRO TO BIOLOGICAL SCIENCE or EARTH & SPACE SCIENCE	3
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
CIV 201	ENGINEERING GRAPHICS	2
CIV 222	ENGINEERING MECHANICS I	3
MATH 243	CALCULUS III WITH LABORATORY	3
Pathway Option		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
CHEM 241	ORGANIC CHEMISTRY I	3
CIV 223	ENGINEERING MECHANICS II	3
CIV 240	STRENGTH OF MATERIALS	3
MATH 244	CALCULUS IV WITH LABORATORY	3
MATH 368	DIFFERENTIAL EQUATIONS	3
UNIV 200	CIVIC ENGAGEMENT	1
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
CIV 320	STRUCTURAL ANALYSIS	3
CIV 330	FLUID MECHANICS LECTURE	3
CIV 340 & CIVL 340	INTRO TO ENVIRONMENTAL ENGINEER and ENVIRONMENTAL ENGINEERING LAB	4
CIV 355	ENGINEERING ECONOMY	3
MATH 307	PROBLYT & STATISTICS/ENGINEERG	3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
CIVL 330	FLUID MECHANICS LAB	1
CIV 360	DESIGN OF STEEL STRUCTURES	3
CIV 370	WATER RESOURCES ENGINEERING	3
CIV 380 & CIVL 380	INTRO TO GEOTECHNICAL ENGINEER and GEOTECHNICAL ENGINEERING LAB	4
CIV 390	INTRO TO TRNSPRTN ENGINEERING	3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Senior</b>		
<b>Fall</b>		
CIV 410	CAPSTONE DESIGN I	3
CIV 420	DESIGN OF CONCRETE STRUCTURES	3
CIV 430	FOUNDATION ENGINEERING	3
CIVL 421	STRUCTURES & MATERIALS LAB	1
CIV 461	PROF & ETHCL IS IN CIVIL ENGIN	1
Civil Engineering Elective		3
Civil Engineering Elective		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
CIV 411	CAPSTONE DESIGN II	3
Civil Engineering Elective		3
Civil Engineering Elective		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>127</b>

- Online Graduation Clearance (to be completed during the graduating semester only).

## Student Learning Outcomes

The JSU Civil Engineering graduates will have

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics,
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors,
3. an ability to communicate effectively with a range of audiences,
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts,
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives,
6. an ability to develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions, and
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## Civil Engineering (B.S.) General Civil Engineering Concentration

### Introduction/Mission

The mission of the Civil Engineering Program is to prepare students for professional careers in civil engineering in the global society, and for life-long learning and continuous development in the profession through a comprehensive curriculum emphasizing basic engineering principles and fundamentals, practical design applications, communication skills, critical thinking, teamwork, laboratory skills, and professional and ethical issues.

The Programs offers two concentrations:

- General Civil Engineering
- Environmental Engineering

### Objectives

Graduates of JSU Civil Engineering Program are expected to:

1. Establish themselves as professionals actively engaging in problem solving to address the needs of society.
2. Progress in their civil engineering careers or other chosen professions and/or engaged in advanced studies in civil engineering or other related fields.
3. Demonstrate their ability to act professionally and ethically in making decisions and to practice life-long learning and continuing education.

### Accreditation

The Undergraduate Civil Engineering Program at JSU is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>

#### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS, however, the student must take 2 hours of general electives to replace the UNIV course.

(<https://www.abet.org/>), under the commission’s General Criteria and Program Criteria for Civil Engineering.

Code	Title	Hours
MATH 242	CALCULUS II WITH LABORATORY	3
MATH 243	CALCULUS III WITH LABORATORY	3
MATH 244	CALCULUS IV WITH LABORATORY	3
BIO 101 & BIOL 101 or SCI 205	INTRO TO BIOLOGICAL SCIENCE and INTRO TO BIO SCI LAB	3
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
CIV 222	ENGINEERING MECHANICS I	3
MATH 368	DIFFERENTIAL EQUATIONS	3
CIV 223	ENGINEERING MECHANICS II	3
CIV 201	ENGINEERING GRAPHICS	2
CIV 330 & CIVL 330	FLUID MECHANICS LECTURE and FLUID MECHANICS LAB	4
MATH 307	PROBLYT & STATISTICS/ENGINEERG	3
CIV 320	STRUCTURAL ANALYSIS	3
CIV 340 & CIVL 340	INTRO TO ENVIRONMENTAL ENGINEE and ENVIRONMENTAL ENGINEERING LAB	4
CIV 360	DESIGN OF STEEL STRUCTURES	3
CIV 355	ENGINEERING ECONOMY	3
CIV 370	WATER RESOURCES ENGINEERING	3
CIV 380 & CIVL 380	INTRO TO GEOTECHNICAL ENGINEER and GEOTECHNICAL ENGINEERING LAB	4
CIV 390	INTRO TO TRNSPRTN ENGINEERING	3
CIV 410	CAPSTONE DESIGN I	3
CIV 411	CAPSTONE DESIGN II	3
CIV 430	FOUNDATION ENGINEERING	3
CIV 420	DESIGN OF CONCRETE STRUCTURES	3
CIV 461	PROF & ETHCL IS IN CIVIL ENGIN	1
Civil Engineering Elective		15
<b>Total Hours</b>		<b>85</b>

### Civil Engineering Technical Electives

Code	Title	Hours
CIV 310 & CIVL 310	ENGINEERING SURVEYING and ENGINEERING SURVEYING LAB	3
CIV 431	TRAFFIC ENGINEERING	3
CIV 441	WATER AND WASTEWATER TREATMENT	3
CIV 451	COMPTR METHODS IN CIV ENGINEER	3
CIV 466	ADVD DESIGN OF HYDRAULIC STRUC	3
CIV 468	HAZARDOUS WASTE ENGINEERING	3
CIV 475	PAVEMENT DESIGN	3
CIV 476	ADVD DESIGN OF STEEL STRUCTURE	3
CIV 477	ADVD DESIGN OF CONCRETE STRUCT	3
CIV 481	SPCL PROBLEMS IN CIV ENGR	3
CIV 491	INTRNSHPS IN CIV ENGINEERING I	1-3
CIV 492	INTRNSHPS N CIV ENGINEERING II	1-3

• At least one civil engineering elective must be chosen from:

Code	Title	Hours
CIV 441	WATER AND WASTEWATER TREATMENT	3

(required environmental engineering elective).

• At least one civil engineering elective must be chosen from:

Code	Title	Hours
CIV 431	TRAFFIC ENGINEERING	3
CIV 475	PAVEMENT DESIGN	3

(required transportation engineering elective). The selection of other courses requires the approval of adviser and Dept. Chair.

- The students are required to contact their advisers or Department Chair prior to taking any civil engineering elective.
- The students must take the Fundamentals of Engineering (FE) exam during the last semester, prior to graduation.
- Engineering classes are generally offered once a year.
- No pre-requisite violations are allowed. If a student has a pre-requisite violation, they may not be able to graduate on time.

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
MATH 241	CALCULUS I WITH LABORATORY	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIO 101 & BIOL 101 or SCI 205	INTRO TO BIOLOGICAL SCIENCE or EARTH & SPACE SCIENCE	3
CIV 201	ENGINEERING GRAPHICS	2
CIV 222	ENGINEERING MECHANICS I	3
MATH 243	CALCULUS III WITH LABORATORY	3
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
Pathway Option		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
CIV 223	ENGINEERING MECHANICS II	3
CIV 240	STRENGTH OF MATERIALS	3
MATH 244	CALCULUS IV WITH LABORATORY	3
MATH 368	DIFFERENTIAL EQUATIONS	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>

Junior		
<b>Fall</b>		
CIV 320	STRUCTURAL ANALYSIS	3
CIV 330	FLUID MECHANICS LECTURE	3
CIV 340 & CIVL 340	INTRO TO ENVIRONMENTAL ENGINEERING and ENVIRONMENTAL ENGINEERING LAB	4
CIV 355	ENGINEERING ECONOMY	3
MATH 307	PROBABILITY & STATISTICS/ENGINEERING	3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
CIVL 330	FLUID MECHANICS LAB	1
CIV 360	DESIGN OF STEEL STRUCTURES	3
CIV 370	WATER RESOURCES ENGINEERING	3
CIV 380 & CIVL 380	INTRO TO GEOTECHNICAL ENGINEERING and GEOTECHNICAL ENGINEERING LAB	4
CIV 390	INTRO TO TRANSPORTATION ENGINEERING	3
Civil Engineering Elective		3
<b>Hours</b>		<b>17</b>
<b>Senior</b>		
<b>Fall</b>		
CIV 410	CAPSTONE DESIGN I	3
CIV 420	DESIGN OF CONCRETE STRUCTURES	3
CIVL 421	STRUCTURES & MATERIALS LAB	1
CIV 430	FOUNDATION ENGINEERING	3
CIV 461	PROFESSIONAL & ETHICAL ISSUES IN CIVIL ENGINEERING	1
Civil Engineering Elective		3
Civil Engineering Elective		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
CIV 411	CAPSTONE DESIGN II	3
Civil Engineering Elective		3
Civil Engineering Elective		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>127</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS, however, the student must take 2 hours of general electives to replace the UNIV course.
- Students are required to take the Mathematics Placement Test to determine if they need to take any math courses before taking MATH 241 CALCULUS I WITH LABORATORY (C).
- The students are required to contact their advisers or Department Chair prior to taking any civil engineering elective.
- The students must take the Fundamentals of Engineering (FE) exam during the last semester, prior to graduation.
- Engineering classes are generally offered once a year.
- No pre-requisite violations are allowed. If a student has a pre-requisite violation, they may not be able to graduate on time.
- Online Graduation Clearance (to be completed during the graduating semester only).

## Civil Engineering Technical Electives

Code	Title	Hours
CIV 310 & CIVL 310	ENGINEERING SURVEYING and ENGINEERING SURVEYING LAB	3

CIV 431	TRAFFIC ENGINEERING	3
CIV 441	WATER AND WASTEWATER TREATMENT	3
CIV 451	COMPUTER METHODS IN CIVIL ENGINEERING	3
CIV 466	ADVANCED DESIGN OF HYDRAULIC STRUCTURES	3
CIV 468	HAZARDOUS WASTE ENGINEERING	3
CIV 475	PAVEMENT DESIGN	3
CIV 476	ADVANCED DESIGN OF STEEL STRUCTURE	3
CIV 477	ADVANCED DESIGN OF CONCRETE STRUCTURE	3
CIV 481	SPECIAL PROBLEMS IN CIVIL ENGINEERING	3
CIV 491	INTRINSIC CIVIL ENGINEERING I	1-3
CIV 492	INTRINSIC CIVIL ENGINEERING II	1-3

At least one civil engineering elective must be chosen from:

Code	Title	Hours
CIV 441	WATER AND WASTEWATER TREATMENT	3

(required environmental engineering elective).

At least one civil engineering elective must be chosen from:

Code	Title	Hours
CIV 431	TRAFFIC ENGINEERING	3
CIV 475	PAVEMENT DESIGN	3

(required transportation engineering elective). The selection of other courses requires the approval of adviser and Dept. Chair.

Basic Science Elective:

Code	Title	Hours
BIO 101 & BIOL 101	INTRO TO BIOLOGICAL SCIENCE and INTRO TO BIO SCI LAB	3
SCI 205	EARTH & SPACE SCIENCE	3

## Student Learning Outcomes

The JSU Civil Engineering graduates will have

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics,
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors,
3. an ability to communicate effectively with a range of audiences,
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts,
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives,
6. an ability to develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions, and
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.



# Industrial Technology (B.S.) Computer Technology Concentration

The computer technology option is designed to provide students with both theoretical knowledge and practical skills in computer and information technologies. Courses included in this option provide experiences in computer components, networking systems, networking installation, troubleshooting, and operating systems. Graduates of this option typically work as computer technicians, process/product analyst, application analysts, computer network specialists, programmers, or managers of computer operations.

## Introduction/Mission

The mission of the Industrial Systems and Technology program is to provide a nationally accredited program, which serves the technical, managerial, and communication needs of persons desiring to enter or advance professionally in an industrial technology-related career.

The JSU Industrial Technology Programs will:

1. Prepare our graduates to meet employer expectations for competent professional, and ethical practice.
2. Prepare our graduates to pursue advanced studies in the areas of technology or other fields.
3. Prepare our graduates to adapt and continuously practice life-long learning and continuing education.

## Objectives

The objectives of the Industrial Systems and Technology program are as follows:

- To produce competent technologists with specialized educational experiences that will enable them to become capable of ascertaining managerial, supervisory and production positions in areas such as business, industry, and government.
- To produce students with the capability to perform quality research in technology.
- To produce students with the ability to perform and take leadership roles in local, state, and national arenas.

## Accreditation

The Industrial Systems and Technology program at Jackson State University is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

## Major Requirements

### Computer Technology Concentration

Code	Title	Hours
IT 100	INTRO TO INDUSTRIAL TECHNOLOGY	1
IT 300	INTERNSHIP/INDUSTRIAL EXPERIEN	3
IT 490	SENIOR CAPSTONE	3
ITC 400	TECHNICAL SEMINAR	3
ITD 114	COMPUTER-AIDED DRAFTING	3
ITE 111 & 111	BASIC ELECTRONICS and BASIC ELECTRONICS	4
ITE 112 & ITEL 112	INTERMEDIATE ELECTRONICS and INTERMEDIATE ELECTRONICS LAB	4

ITE 221 & ITEL 221	DEVICES AND CIRCUITS I and DEVICE AND CIRCUITS LAB I	4
ITE 338 & ITEL 338	DIGITAL LOGIC and DIGITAL LOGIC LAB I	4
ITE 449 & ITEL 449	NETWORK THEORIES and NETWORKING LAB	4
ITE 450	ANALOGICAL COMMUNICATION SYSTE	3
ITE 465	MICROPROCESSORS & APPLICATION	4
ITE 466	MICROPROCESSOR TROUBLESHOOTING	3
ITE 475	MICROPROCESSOR SOFTWARE/HARDWA	3
ITE 476	REAL TIME SYSTEM DESIGN	3
ITMA 105	INDUSTRIAL SAFETY & MANAGEMENT	3
ITMA 325	INDUSTRIAL PSYCHOLOGY	3
ITMA 410	1ST LINE SUPRVSN & FRMAN	3
ITMA 420	LABOR & INDUSTRIAL RELATIONS	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3

**Total Hours 64**

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
CSC 115	DIGITAL COMPUTER PRINCIPLES	3
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111	COLLEGE ALGEBRA	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Ootion		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ITE 180	Introduction to Robotics	3
MATH 112	PLANE TRIGONOMETRY	3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
IT 100	INTRO TO INDUSTRIAL TECHNOLOGY	1
ITE 111 & 111	BASIC ELECTRONICS and BASIC ELECTRONICS ( Lab )	4
ITMA 105	INDUSTRIAL SAFETY & MANAGEMENT	3
ITD 114	COMPUTER-AIDED DRAFTING	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ITE 112 & ITEL 112	INTERMEDIATE ELECTRONICS and INTERMEDIATE ELECTRONICS LAB	4
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
MATH 221	CALCULUS I INDUST OR BUS	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>15</b>

<b>Junior</b>		
<b>Fall</b>		
ITE 221 & ITEL 221	DEVICES AND CIRCUITS I and DEVICE AND CIRCUITS LAB I	4
ITMA 325	INDUSTRIAL PSYCHOLOGY (W)	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
ITE 338 & ITEL 338	DIGITAL LOGIC and DIGITAL LOGIC LAB I	4
IT 300	INTERNSHIP/INDUSTRIAL EXPERIEN (S)	3
Humanities & Fine Arts Option		3
General Elective		3
<b>Hours</b>		<b>13</b>
<b>Senior</b>		
<b>Fall</b>		
ITMA 410	1ST LINE SUPRVSN & FRMAN	3
ITE 449 & ITEL 449	NETWORK THEORIES and NETWORKING LAB	4
ITE 450	ANALOGICAL COMMUNICATION SYSTE	3
ITE 475	MICROPROCESSOR SOFTWARE/HARDWA	3
ITE 465	MICROPROCESSORS & APPLICATION	4
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ITE 466	MICROPROCESSOR TROUBLESHOOTING	3
ITE 476	REAL TIME SYSTEM DESIGN	3
ITMA 420	LABOR & INDUSTRIAL RELATIONS (W)	3
IT 490	SENIOR CAPSTONE (S)	3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>123</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

## Student Learning Outcomes

1. Demonstrate an understanding of the basic concepts of DC, AC, and analog circuits as well as an understanding of and use specialized instruments in a laboratory or workbench environment.
2. Understand the structure of a computing system, the design of its basic components and the interactions of hardware and software components
3. Demonstrate a basic knowledge of using, setting up, and maintaining personal computers and computer network systems
4. Demonstrate the skills needed to effectively manage a disaster scene.

# Industrial Technology (B.S.) Electronic Systems Technology Concentration

The electronics systems technology option is designed to provide students with both theoretical knowledge and practical skills in electronics systems that are essential in the 21st century. Courses

included in this option provide experiences in devices and circuits, digital and instrumentation. Typical entry-level professions include electronics technologists, circuit designers, and electronic systems maintenance supervisors.

## Introduction/Mission

The mission of the Industrial Systems and Technology program is to provide a nationally accredited program, which serves the technical, managerial, and communication needs of persons desiring to enter or advance professionally in an industrial technology-related career.

The JSU Industrial Technology Programs will:

1. Prepare our graduates to meet employer expectations for competent professional, and ethical practice.
2. Prepare our graduates to pursue advanced studies in the areas of technology or other fields.
3. Prepare our graduates to adapt and continuously practice life-long learning and continuing education.

## Objectives

The objectives of the Industrial Systems and Technology program are as follows:

- To produce competent technologists with specialized educational experiences that will enable them to become capable of ascertaining managerial, supervisory and production positions in areas such as business, industry, and government.
- To produce students with the capability to perform quality research in technology.
- To produce students with the ability to perform and take leadership roles in local, state, and national arenas.

## Accreditation

The Industrial Systems and Technology program at Jackson State University is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

## Major Requirements

### Electronic Systems Technology Concentration

Code	Title	Hours
IT 100	INTRO TO INDUSTRIAL TECHNOLOGY	1
IT 300	INTERNSHIP/INDUSTRIAL EXPERIEN	3
IT 490	SENIOR CAPSTONE	3
ITD 114	COMPUTER-AIDED DRAFTING	3
ITE 111 & 111	BASIC ELECTRONICS and BASIC ELECTRONICS (Lab)	4
ITE 112 & ITEL 112	INTERMEDIATE ELECTRONICS and INTERMEDIATE ELECTRONICS LAB	4
ITE 221 & ITEL 221	DEVICES AND CIRCUITS I and DEVICE AND CIRCUITS LAB I	4
ITE 320	Introduction to Robotics Process Automation	3
ITE 338 & ITEL 338	DIGITAL LOGIC and DIGITAL LOGIC LAB I	4
ITE 438	PROGRAMMABLE LOGIC CONTROLLER	3
ITE 449 & ITEL 449	NETWORK THEORIES and NETWORKING LAB	4

ITE 450	ANALOGICAL COMMUNICATION SYSTE	3
ITE 475	MICROPROCESSOR SOFTWARE/HARDWA	3
ITE 452 Fiber Optics and Communications		3
ITMA 105	INDUSTRIAL SAFETY & MANAGEMENT	3
ITE 180	Introduction to Robotics	3
ITMA 325	INDUSTRIAL PSYCHOLOGY	3
ITMA 420	LABOR & INDUSTRIAL RELATIONS	3
MNGT 351	MNGT INFORMATION SYSMS AND APP	3
ITE 410	Robotics Systems	3
<b>Total Hours</b>		<b>63</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
CSC 115	DIGITAL COMPUTER PRINCIPLES	3
MATH 111	COLLEGE ALGEBRA	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 112	PLANE TRIGONOMETRY	3
ITE 180	Introduction to Robotics	3
Pathway Option		3
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
IT 100	INTRO TO INDUSTRIAL TECHNOLOGY	1
ITE 111 & 111	BASIC ELECTRONICS and BASIC ELECTRONICS (Lab)	4
ITMA 105	INDUSTRIAL SAFETY & MANAGEMENT	3
ITD 114	COMPUTER-AIDED DRAFTING	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ITE 112 & ITEL 112	INTERMEDIATE ELECTRONICS and INTERMEDIATE ELECTRONICS LAB	4
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
MATH 221	CALCULUS I INDUST OR BUS	3
MNGT 330	MANAGEMENT TO ORGANIZATIONS	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>18</b>
<b>Junior</b>		
<b>Fall</b>		
ITE 221 & ITEL 221	DEVICES AND CIRCUITS I and DEVICE AND CIRCUITS LAB I	4
ITMA 325	INDUSTRIAL PSYCHOLOGY	3
ECO 211	PRINCIPLES OF MACROECONOMICS	3

MNGT 351	MNGT INFORMATION SYSMS AND APP	3
<b>Hours</b>		<b>13</b>
<b>Spring</b>		
IT 300	INTERNSHIP/INDUSTRIAL EXPERIEN (S)	3
ITE 320	Introduction to Robotics Process Automation	3
ITE 338 & ITEL 338	DIGITAL LOGIC and DIGITAL LOGIC LAB I	4
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>13</b>
<b>Senior</b>		
<b>Fall</b>		
ITE 410	Robotics Systems	3
ITE 438	PROGRAMMABLE LOGIC CONTROLLER	3
ITE 449 & ITEL 449	NETWORK THEORIES and NETWORKING LAB	4
ITE 475	MICROPROCESSOR SOFTWARE/HARDWA	3
ITE 452 Fiber Optics & Communications		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
IT 490	SENIOR CAPSTONE (S)	3
ITE 450	ANALOGICAL COMMUNICATION SYSTE (S)	3
ITMA 420	LABOR & INDUSTRIAL RELATIONS (W)	3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>122</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

1. Demonstrate an understanding of the basic concepts of DC, AC, and analog circuits as well as an understanding of and use specialized instruments in a laboratory or workbench environment.
2. Understand the structure of a computing system, the design of its basic components and the interactions of hardware and software components
3. Demonstrate a basic knowledge of using, setting up, and maintaining personal computers and computer network systems
4. Demonstrate the skills needed to effectively manage a disaster scene.

## Industrial Technology (B.S.) Emergency Management Technology Concentration

The emergency management technology option focuses on disaster prevention, planning, preparedness, response, mitigation, and recovery. The curriculum covers needs and issues, operations management, planning and response, and terrorism and is designed to provide students with a global outlook, interpersonal skills, and emergency management knowledge and skills. Emergency management is the discipline of dealing with and avoiding risks. It is a discipline that involves preparing for disaster before it occurs. This undergraduate specialization provides an overview of public safety research, theory, and principles within an emergency management framework. The curriculum focuses on such

topics as emergency planning and decision-making, homeland security, disaster response and recovery, and hazard identification and mitigation.

## Introduction/Mission

The mission of the Industrial Systems and Technology program is to provide a nationally accredited program, which serves the technical, managerial, and communication needs of persons desiring to enter or advance professionally in an industrial technology-related career.

The JSU Industrial Technology Programs will:

1. Prepare our graduates to meet employer expectations for competent professional, and ethical practice.
2. Prepare our graduates to pursue advanced studies in the areas of technology or other fields.
3. Prepare our graduates to adapt and continuously practice life-long learning and continuing education.

## Objectives

The objectives of the Industrial Systems and Technology program are as follows:

- To produce competent technologists with specialized educational experiences that will enable them to become capable of ascertaining managerial, supervisory and production positions in areas such as business, industry, and government.
- To produce students with the capability to perform quality research in technology.
- To produce students with the ability to perform and take leadership roles in local, state, and national arenas.

## Accreditation

The Industrial Systems and Technology program at Jackson State University is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

## Major Requirements

### Emergency Management Technology Concentration

Code	Title	Hours
IT 100	INTRO TO INDUSTRIAL TECHNOLOGY	1
ITD 114	COMPUTER-AIDED DRAFTING	3
ITEM 301	PRINCIPLES OF EMERGENCY MNGT	3
ITEM 302	INTRO TO INCIDENT COMMAND SYS	3
ITEM 303	COMMUNITY EMERGENCY RESPN TEAM	3
ITEM 304	INTERNSHIPS	3
ITEM 402	BASIC GEOG INFO SYS REMOTE SEN	3
ITEM 403	DISASTER MANAGEMENT	3
ITEM 404	SPECIAL PROJECT	3
ITEM 407	TECHNOLOGY IN EMERGENCY RESPONSE AND MANAGEMENT	3
ITHM 300	PRIN OF HAZARDOUS MATERLS MNGT	3
ITHM 301	REGULATORY FRAMEWORK	3
ITHM 302	TECH FOR STR TREATMENT DIP HM	3
ITHM 402	INDUSTRIAL HYGIENE	3
ITHM 405	RISK ASSESSMENT	3
ITMA 105	INDUSTRIAL SAFETY & MANAGEMENT	3

ITMA 325	INDUSTRIAL PSYCHOLOGY	3
ITMA 420	LABOR & INDUSTRIAL RELATIONS	3
<b>Total Hours</b>		<b>52</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111	COLLEGE ALGEBRA	3
BIO 101 & BIOL 101	INTRO TO BIOLOGICAL SCIENCE and INTRO TO BIO SCI LAB	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 112	PLANE TRIGONOMETRY	3
CSC 115	DIGITAL COMPUTER PRINCIPLES	3
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
IT 100	INTRO TO INDUSTRIAL TECHNOLOGY	1
ITMA 105	INDUSTRIAL SAFETY & MANAGEMENT	3
ITD 114	COMPUTER-AIDED DRAFTING	3
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
SPCH 201	SPEECH ARTS	3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 213	PROFESSIONAL WRITING	3
MATH 221	CALCULUS I INDUST OR BUS	3
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
ITEM 301	PRINCIPLES OF EMERGENCY MNGT	3
ITEM 302	INTRO TO INCIDENT COMMAND SYS	3
ITHM 300	PRIN OF HAZARDOUS MATERLS MNGT	3
ITEM 407	TECHNOLOGY IN EMERGENCY RESPONSE AND MANAGEMENT	3
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
ECO 211	PRINCIPLES OF MACROECONOMICS	3
ITHM 301	REGULATORY FRAMEWORK	3
ITEM 303	COMMUNITY EMERGENCY RESPN TEAM	3
ITEM 304	INTERNSHIPS	3
ITMA 325	INDUSTRIAL PSYCHOLOGY	3
<b>Hours</b>		<b>15</b>

Senior		
Fall		
ITEM 402	BASIC GEOG INFO SYS REMOTE SEN	3
ITEM 403	DISASTER MANAGEMENT	3
ITEM 404	SPECIAL PROJECT	3
ITMA 420	LABOR & INDUSTRIAL RELATIONS	3
MET 200	INTRO TO METEOROLOGY	3
<b>Hours</b>		<b>15</b>
Spring		
ITHM 302	TECH FOR STR TREATMENT DIP HM	3
ITHM 402	INDUSTRIAL HYGIENE	3
ITHM 405	RISK ASSESSMENT	3
General Elective		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>123</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

1. Demonstrate an understanding of the basic concepts of DC, AC, and analog circuits as well as an understanding of and use specialized instruments in a laboratory or workbench environment.
2. Understand the structure of a computing system, the design of its basic components and the interactions of hardware and software components
3. Demonstrate a basic knowledge of using, setting up, and maintaining personal computers and computer network systems
4. Demonstrate the skills needed to effectively manage a disaster scene.

# Department of Electrical and Computer Engineering and Computer Science

Dr. Jacqueline M. Jackson  
Interim Chair  
mahmoud.a.manzoul@jsums.edu  
(601) 979-2105  
Engineering, Room 236

## Faculty of Department

K. Abed, K. Ali, S. Aliabadi, A. Abu-El Humos, M. Manzoul, N. Meghanathan, L. Moore, T. Pei, S. Tu, S. Hong, J. Jackson, A. Tanner, L. Gong, V. Melapu, F. Dancer, G. Offiah, Q. Pang

## Introduction/Mission

The mission of the Electrical and Computer Engineering and Computer Science department is to build and sustain high-quality and broad-based teaching and research programs in Electrical Engineering, Computer Engineering, Biomedical Engineering, and Computer Science, to prepare graduates for successful professional careers, and to provide

service to the community. The Department offers four undergraduate degrees:

- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Computer Engineering
- Bachelor of Science in Biomedical Engineering, and
- Bachelor of Science in Computer Science.

## Bachelor

- Biomedical Engineering (B.S.) (p. 188)
- Computer Engineering (B.S.) (p. 190)
- Computer Science (B.S.) (p. 192)
- Electrical Engineering (B.S.) (p. 193)

## Biomedical Engineering (B.S.)

### Objectives

Graduates of the Biomedical Engineering program will be able to achieve the following three objectives within the first few years after graduation:

1. Employed in the biomedical engineering profession with potential for successful career advancement.
2. For those with an interest in earning advanced degrees, they will have completed or be pursuing advanced degrees.
3. Be informed and involved members of their communities as well as professional organizations and engaged in life-long learning.

**Note:** Students are required to take the Mathematics Placement Test to determine if they need to take any math courses before taking MATH 241 CALCULUS I WITH LABORATORY.

## Major Requirements

Code	Title	Hours
MATH 241	CALCULUS I WITH LABORATORY	3
MATH 242	CALCULUS II WITH LABORATORY	3
MATH 243	CALCULUS III WITH LABORATORY	3
MATH 244	CALCULUS IV WITH LABORATORY	3
MATH 307	PROBLTY & STATISTICS/ENGINEERG	3
MATH 368	DIFFERENTIAL EQUATIONS	3
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 440 & BIOL 440	CELL BIOLOGY and CELL BIOLOGY LAB	4

BIO 470 & BIOL 470	HUMAN PHYSIOLOGY and HUMAN PHYSIOLOGY LAB	4
CSC 118	COMPUTER SCIENCE I	3
ECE 212 & ECEL 212	DIGITAL LOGIC and DIGITAL LOGIC LABORATORY	4
ECE 220 & ECEL 220	CIRCUIT THEORY and CIRCUITS LABORATORY	4
CIV 222	ENGINEERING MECHANICS I	3
ECE 312	COMPUTER ORGANIZATION & DESIGN	3
ECE 360 & ECEL 360	EMBEDDED MICROPROCESSOR SYSTEM and MICROPROCESSOR LABORATORY	4
ECE 490	SENIOR DESIGN PROJECTS I	3
ECE 491	SENIOR DESIGN PROJECTS II	3
<b>Total Hours</b>		<b>81</b>

## Technical Electives for Biomedical Engineering Majors

Code	Title	Hours
BIO 318	INTRODUCTORY GENETICS	3
BIO 393	INTRO TO MEDICAL TERMINOLOGY	3
ECE 355	CONTROL SYSTEMS	3
ECE 451	DIGITAL SIGNAL PROCESSING	3
ECE 493	SPCL TPCS N ELECTRL & COMPU EN	3

Other Courses require Chair's approval

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 241	CALCULUS I WITH LABORATORY	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
ECE 212 & ECEL 212	DIGITAL LOGIC and DIGITAL LOGIC LABORATORY	4
MATH 242	CALCULUS II WITH LABORATORY	3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Sophomore</b>		
<b>Fall</b>		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CSC 118	COMPUTER SCIENCE I	3
MATH 243	CALCULUS III WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Pathway Option		3
<b>Hours</b>		<b>17</b>

<b>Spring</b>		
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
ECE 220 & ECEL 220	CIRCUIT THEORY and CIRCUITS LABORATORY	4
MATH 244	CALCULUS IV WITH LABORATORY	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3

**Hours** **15**

<b>Junior</b>		
<b>Fall</b>		
BIO 470 & BIOL 470	HUMAN PHYSIOLOGY and HUMAN PHYSIOLOGY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ECE 312	COMPUTER ORGANIZATION & DESIGN	3
MATH 368	DIFFERENTIAL EQUATIONS	3
ECE 471 Biomedical Signal Processing		3

**Hours** **17**

<b>Spring</b>		
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
CIV 222	ENGINEERING MECHANICS I	3
ECE 360 & ECEL 360	EMBEDDED MICROPROCESSOR SYSTEM and MICROPROCESSOR LABORATORY	4
Humanities & Fine Arts Option		3
ECE 472 Biomedical Materials		3

**Hours** **17**

<b>Senior</b>		
<b>Fall</b>		
BIO 440 & BIOL 440	CELL BIOLOGY and CELL BIOLOGY LAB	4
ECE 490	SENIOR DESIGN PROJECTS I	3
ECE 470 Biomedical Instrumentation		3
MATH 307	PROBLTY & STATISTICS/ENGINEERG	3
Social & Behavioral Science Option		3

**Hours** **16**

<b>Spring</b>		
Technical Elective I		3
ECE 491	SENIOR DESIGN PROJECTS II	3
Technical Elective II		3
Technical Elective III		3

**Hours** **12**

**Total Hours** **126**

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

Code	Title	Hours
<b>Technical Electives</b>		
BIO 318	INTRODUCTORY GENETICS	3
BIOL 318	INTRODUCTORY GENETICS LAB	1
BIO 393	INTRO TO MEDICAL TERMINOLOGY	3
ECE 355	CONTROL SYSTEMS	3
ECE 451	DIGITAL SIGNAL PROCESSING	3
ECE 493	SPCL TPCS N ELECTRL & COMPU EN	1-4

Other courses require Chair's approval

**Total Hours** **14-17**

1. Students who transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS .
2. Students are required to take the Mathematics Placement Test to determine if they need to take any math courses before taking MATH 241 CALCULUS I WITH LABORATORY (C).

## Student Learning Outcomes

Each student who graduates from the Undergraduate Program in Biomedical Engineering will have:

1. An ability to identify, formulate, and solve complex Biomedical engineering problems by applying principles of Biomedical engineering, science, and mathematics
2. An ability to apply Biomedical engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. An ability to communicate effectively with a range of audiences
4. An ability to recognize ethical and professional responsibilities in Biomedical engineering situations and make informed judgments, which must consider the impact of Biomedical engineering solutions in global, economic, environmental, and societal contexts
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use Biomedical engineering judgment to draw conclusions
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## Computer Engineering (B.S.)

### Program Educational Objectives

The Computer Engineering curriculum deals with all aspects of designing, building, and programming of computer systems. The curriculum introduces students to both hardware (electronic circuits) and software (programming) of computer systems.

Graduates of the Computer Engineering program will be able to achieve the following three objectives within the first few years after graduation:

1. Employed in the computing profession or closely related field with potential for successful career advancement.
2. For those with an interest in earning advanced degrees, they will have completed or be pursuing advanced degrees.
3. Be informed and involved members of their communities as well as professional organizations and engaged in life-long learning.

### Accreditation

The Computer Engineering program is accredited by the Engineering Accreditation Commission (EAC) of ABET, (<http://www.abet.org>) (<http://www.abet.org>), under the commission's General Criteria and Program Criteria for Electrical, Computer, Communications, Telecommunications(s), and Similarly Named Engineering Programs.

#### Notes:

Students are required to take the Mathematics Placement Test to determine if they need to take any math courses before taking MATH 241 CALCULUS I WITH LABORATORY.

## Major Requirements

Code	Title	Hours
MATH 241	CALCULUS I WITH LABORATORY	3
MATH 242	CALCULUS II WITH LABORATORY	3
MATH 243	CALCULUS III WITH LABORATORY	3
MATH 244	CALCULUS IV WITH LABORATORY	3
MATH 307	PROBLYT & STATISTICS/ENGINEERG	3
MATH 368	DIFFERENTIAL EQUATIONS	3
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
CSC 118	COMPUTER SCIENCE I	3
CSC 119	COMPUTER SCIENCE II	3
CSC 225	DISCRETE STRUCTURES	3
CSC 228	DATA STRUCTURES & ALGORITHMS	3
CSC 325	OPERATING SYSTEMS	3
ECE 101	Introduction to Electrical and Computer Engineering	2
ECE 212 & ECEL 212	DIGITAL LOGIC and DIGITAL LOGIC LABORATORY	4
ECE 220 & ECEL 220	CIRCUIT THEORY and CIRCUITS LABORATORY	4
CIV 222	ENGINEERING MECHANICS I	3
ECE 252	ENGINEERING ANALYSIS	3
CIV 355	ENGINEERING ECONOMY	3
ECE 312	COMPUTER ORGANIZATION & DESIGN	3
ECE 315	SYNTHESIS WITH HARDWARE DL	3
ECE 330 & ECEL 330	ELECTRONICS and ELECTRONICS LABORATORY	4
ECE 351	SIGNALS AND SYSTEMS	3
ECE 360 & ECEL 360	EMBEDDED MICROPROCESSOR SYSTEM and MICROPROCESSOR LABORATORY	4
ECE 412	COMPUTER ARCHITECTURE	3
ECE 490	SENIOR DESIGN PROJECTS I	3
ECE 491	SENIOR DESIGN PROJECTS II	3

**Total Hours** **90**

## Elective Courses

Code	Title	Hours
Free Elective		1
ECE 430	DIGITAL VLSI DESIGN	3
ECE 431	Digital System Testing and Design for Testability	3
ECE 345	ELECTROMAGNETIC FIELDS	3
ECE 440	COMMUNICATION SYSTEMS	3
ECE 441	COMPUTER NETWORKS	3
ECE 451	DIGITAL SIGNAL PROCESSING	3

ECE 492	SPCL STDS N ELEC & COMPU ENGIN	1-4
ECE 493	SPCL TPCS N ELECTRL & COMPU EN	1-4
Other courses require Chair's approval		3

## Technical Electives for Computer Engineering Majors

Code	Title	Hours
ECE 430	DIGITAL VLSI DESIGN	3
ECE 431	Digital System Testing and Design for Testability	3
ECE 345	ELECTROMAGNETIC FIELDS	3
ECE 440	COMMUNICATION SYSTEMS	3
ECE 441	COMPUTER NETWORKS	3
ECE 451	DIGITAL SIGNAL PROCESSING	3
ECE 492	SPCL STDS N ELEC & COMPU ENGIN	1-4
ECE 493	SPCL TPCS N ELECTRL & COMPU EN	1-4

Other Courses require Chair's approval

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
CSC 118	COMPUTER SCIENCE I	3
ECE 101	Introduction to Electrical and Computer Engineering	2
ENG 104	COMPOSITION I	3
or ENG 103	or English Composition I with Co-requisite Support	
or ENG 111	or COMPOSITION & LITERATURE FOR L	
MATH 241	CALCULUS I WITH LABORATORY	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>16</b>

<b>Spring</b>		
ECE 212 & ECEL 212	DIGITAL LOGIC and DIGITAL LOGIC LABORATORY	4
ENG 105	COMPOSITION II	3
or ENG 112	or COMPOSITION	
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Pathway Option		3
<b>Hours</b>		<b>17</b>

<b>Sophomore</b>		
<b>Fall</b>		
CSC 119	COMPUTER SCIENCE II	3
ECE 220 & ECEL 220	CIRCUIT THEORY and CIRCUITS LABORATORY	4
MATH 243	CALCULUS III WITH LABORATORY	3
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
Pathway Option		3
<b>Hours</b>		<b>17</b>

<b>Spring</b>		
ECE 312	COMPUTER ORGANIZATION & DESIGN	3
ECE 330 & ECEL 330	ELECTRONICS and ELECTRONICS LABORATORY	4
ECE 252	ENGINEERING ANALYSIS	3
MATH 244	CALCULUS IV WITH LABORATORY	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>17</b>

### Junior

#### Fall

CIV 222	ENGINEERING MECHANICS I	3
CSC 225	DISCRETE STRUCTURES	3
ECE 315	SYNTHESIS WITH HARDWARE DL	3
ECE 360 & ECEL 360	EMBEDDED MICROPROCESSOR SYSTEM and MICROPROCESSOR LABORATORY	4
MATH 368	DIFFERENTIAL EQUATIONS	3
<b>Hours</b>		<b>16</b>

#### Spring

CIV 355	ENGINEERING ECONOMY	3
CSC 228	DATA STRUCTURES & ALGORITHMS	3
ECE 351	SIGNALS AND SYSTEMS	3
ECE 412	COMPUTER ARCHITECTURE	3
MATH 307	PROBLY & STATISTICS/ENGINEERG	3
<b>Hours</b>		<b>15</b>

### Senior

#### Fall

CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
CSC 325	OPERATING SYSTEMS	3
ECE 490	SENIOR DESIGN PROJECTS I	3
Technical Elective I		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>16</b>

#### Spring

ECE 491	SENIOR DESIGN PROJECTS II	3
Technical Elective II		3
Technical Elective III		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>126</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Students are required to take the Mathematics Placement Test to determine if they need to take any math courses before taking MATH 241 CALCULUS I WITH LABORATORY (C).
- Online Graduation Clearance (**to be completed during the graduating semester only**).

Code	Title	Hours
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### Technical Electives

Students must choose nine (9) hours of technical electives from the following list of courses:

ECE 345	ELECTROMAGNETIC FIELDS	3
ECE 430	DIGITAL VLSI DESIGN	3
ECE 431	Digital System Testing and Design for Testability	3
ECE 440	COMMUNICATION SYSTEMS	3
ECE 451	DIGITAL SIGNAL PROCESSING	3
ECE 492	SPCL STDS N ELEC & COMPU ENGIN	3
ECE 493	SPCL TPCS N ELECTRL & COMPU EN	3

Other courses require Chair's approval

<b>Total Hours</b>		<b>21</b>
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## Student Learning Outcomes

Each student who graduates from the Undergraduate Program in Computer Engineering will have:

1. An ability to identify, formulate, and solve complex computer engineering problems by applying principles of computer engineering, science, and mathematics.
2. An ability to apply Computer engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in computer engineering situations and make informed judgments, which must consider the impact of Computer engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use Computer engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## Computer Science (B.S.)

### Introduction/Mission

The undergraduate major in Computer Science is intended to enable a student to pursue further studies in Computer Science or in related fields of Science, Engineering, and Business and to enter the work force as an entry level computer professional. The program combines a very thorough preparation in the fundamentals of Computer Science and related fields with the opportunity for more advanced work in either Computer Science or Computer Engineering.

### Program Educational Objectives

The educational objectives of the Computer Science undergraduate program at Jackson State University are to graduate students with:

1. An understanding of and the ability to apply the core principles and theories of Computer Science;
2. The motivation and preparation to engage in life-long learning, including entering graduate programs in Computer Science and related fields;
3. The professional skills needed for employment, while being able to adapt to rapidly changing technology;
4. An understanding of the ethical responsibilities of a computer professional and the social impact of computing.

### Accreditation

The Undergraduate Computer Science Program at JSU is **accredited by the Computing Accreditation Commission of ABET**, <https://www.abet.org> (<https://www.abet.org/>), **under the commission's General Criteria and Program Criteria for Computer Science and Similarly Named Computing Programs.**

## Other Requirements/Offerings

1. Students may need Pre-Calculus courses if indicated by math assessment score.
2. Students with no computer exposure must take CSC 115 DIGITAL COMPUTER PRINCIPLES.
3. Laboratory courses must be taken during the same semester as lecture for Engineering, Mathematics, Biology, Chemistry, and Physics courses.
4. Students must take the ETS Major Field Examination in Computer Science.
5. A minimum grade of "C" is required in all Computer Science Courses. Prerequisite courses must be successfully completed before taking the next courses.

## Major Requirements

Code	Title	Hours
CSC 118	COMPUTER SCIENCE I	3
CSC 119	COMPUTER SCIENCE II	3
CSC 225	DISCRETE STRUCTURES	3
CSC 228	DATA STRUCTURES & ALGORITHMS	3
CSC 215	DATA ANALYTICS	3
CSC 216	COMPUTER ARCHITECTURE & ORGNA	3
CSC 323	ALGORITHM DESIGN AND ANALYSIS	3
CSC 330	DATABASE SYSTEMS	3
CSC 435	COMPUTER NETWORKS	3
CSC 360	Client Server Programming	3
CSC 450	SENIOR PROJECT	3
CSC 475	SOFTWARE ENGINEERING	3
CSC 325	OPERATING SYSTEMS	3
CSC 350	ORGANIZATION OF PROGRAM LANGUA	3
CSC 390	COMPUTER SCIENCE SEMINAR	1
ECE 212 & ECEL 212	DIGITAL LOGIC and DIGITAL LOGIC LABORATORY	4
MATH 241	CALCULUS I WITH LABORATORY	3
MATH 242	CALCULUS II WITH LABORATORY	3
MATH 243	CALCULUS III WITH LABORATORY	3
MATH 307	PROBLYT & STATISTICS/ENGINEERG	3
BIO 101 & BIOL 101	INTRO TO BIOLOGICAL SCIENCE and INTRO TO BIO SCI LAB	3
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Computer Science Electives		15
<b>Total Hours</b>		<b>85</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
CSC 118	COMPUTER SCIENCE I	3
MATH 241	CALCULUS I WITH LABORATORY	3

UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
CSC 119	COMPUTER SCIENCE II	3
CSC 225	DISCRETE STRUCTURES	3
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 242	CALCULUS II WITH LABORATORY	3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
CSC 228	DATA STRUCTURES & ALGORITHMS	3
ECE 212 & ECEL 212	DIGITAL LOGIC and DIGITAL LOGIC LABORATORY	4
MATH 243	CALCULUS III WITH LABORATORY	3
Natural Science Option w/Lab		3
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB (Science Elective II)	4
CSC 215	DATA ANALYTICS (N)	3
CSC 216	COMPUTER ARCHITECTURE & ORGNZA	3
MATH 307	PROBLTY & STATISTICS/ENGINEERG	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Junior</b>		
<b>Fall</b>		
CSC 325	OPERATING SYSTEMS	3
CSC 350	ORGANIZATION OF PROGRAM LANGUA	3
CSC 390	COMPUTER SCIENCE SEMINAR	1
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
CSC 323	ALGORITHM DESIGN AND ANALYSIS	3
CSC 330	DATABASE SYSTEMS	3
Humanities & Fine Arts Option		3
CSC 360 Client Server Programming		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
CSC 435	COMPUTER NETWORKS	3
CSC 437	COMPUTER SECURITY	3
CSC 475	SOFTWARE ENGINEERING	3
Computer Science Elective I		3
Computer Science Elective II		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CSC 450	SENIOR PROJECT	3
Computer Science Elective III		3
Computer Science Elective III		3
Computer Science Elective IV		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>121</b>

**Notes:**

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- On-line Graduation Clearance (**to be completed during the graduating semester only**).

## Student Learning Outcomes

Each student who graduates from the Undergraduate Program in Computer Science will be able to:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Apply computer science theory and software development fundamentals to produce computing-based solutions.

## Electrical Engineering (B.S.)

### Objectives

The Electrical Engineering is a diverse field dealing with all aspects of designing and operating electrical devices and systems based on our technological society. The Electrical Engineering curriculum includes for example electronics, energy conversion, power generation and distribution, computing, communications, and control systems.

Graduates of the Electrical Engineering program will be able to achieve the following three objectives:

1. Employed in the electrical engineering profession with potential for successful career advancement.
2. For those with an interest in earning advanced degrees, they will have completed or be pursuing advanced degrees.
3. Be informed and involved members of their communities as well as professional organizations and engaged in life-long learning.

### Accreditation

The Electrical Engineering program is accredited by the Engineering Accreditation Commission (EAC) of ABET, (<http://www.abet.org>) (<https://www.google.com/url?q=http://www.abet.org&sa=D&source=editors&ust=1740179014831285&usg=AOvVaw10k1jv>) under the commission's General Criteria and Program Criteria for Electrical, Computer, Communications, Telecommunications(s), and Similarly Named Engineering Programs.

**Notes:** Students are required to take the Mathematics Placement Test to determine if they need to take any math courses before taking MATH 241 CALCULUS I WITH LABORATORY.

### Major Requirements

Code	Title	Hours	Course	Title	Hours
MATH 241	CALCULUS I WITH LABORATORY	3	<b>Freshman</b>		
MATH 242	CALCULUS II WITH LABORATORY	3	<b>Fall</b>		
MATH 243	CALCULUS III WITH LABORATORY	3	CSC 118	COMPUTER SCIENCE I	3
MATH 244	CALCULUS IV WITH LABORATORY	3	ECE 101	Introduction to Electrical and Computer Engineering	2
MATH 307	PROBLYT & STATISTICS/ENGINEERG	3	ENG 104	COMPOSITION I	3
MATH 368	DIFFERENTIAL EQUATIONS	3	or ENG 103	or English Composition I with Co-requisite Support	
CHEM 141	GENERAL CHEMISTRY I	4	or ENG 111	or COMPOSITION & LITERATURE FOR L	
& CHML 141	and GENERAL CHEMISTRY LAB		MATH 241	CALCULUS I WITH LABORATORY	3
PHY 211	General Physics I	4	UNIV 100	UNIVERSITY SUCCESS	2
& PHYL 211	and GENERAL PHYSICS LAB I		Pathway Option		3
PHY 212	General Physics II	4		<b>Hours</b>	<b>16</b>
& PHYL 212	and GENERAL PHYSICS LAB II		<b>Spring</b>		
CSC 118	COMPUTER SCIENCE I	3	ENG 105	COMPOSITION II	3
CSC 119	COMPUTER SCIENCE II	3	or ENG 112	or COMPOSITION	
ECE 101	Introduction to Electrical and Computer Engineering	2	ECE 212	DIGITAL LOGIC	4
ECE 212	DIGITAL LOGIC	4	& ECEL 212	and DIGITAL LOGIC LABORATORY	
& ECEL 212	and DIGITAL LOGIC LABORATORY		MATH 242	CALCULUS II WITH LABORATORY	3
ECE 220	CIRCUIT THEORY	4	PHY 211	General Physics I	4
& ECEL 220	and CIRCUITS LABORATORY		& PHYL 211	and GENERAL PHYSICS LAB I	
ECE 252	ENGINEERING ANALYSIS	3	Pathway Option		3
CIV 355	ENGINEERING ECONOMY	3		<b>Hours</b>	<b>17</b>
ECE 312	COMPUTER ORGANIZATION & DESIGN	3	<b>Sophomore</b>		
ECE 320	CIRCUIT THEORY II	3	<b>Fall</b>		
ECE 330	ELECTRONICS	4	MATH 243	CALCULUS III WITH LABORATORY	3
& ECEL 330	and ELECTRONICS LABORATORY		PHY 212	General Physics II	4
ECE 331	ELECTRONICS II	4	& PHYL 212	and GENERAL PHYSICS LAB II	
& ECEL 331	and ELECTRONICS II LABORATORY		CSC 119	COMPUTER SCIENCE II	3
ECE 335	SEMICONDUCTOR DEVICES	3	CHEM 141	GENERAL CHEMISTRY I	4
ECE 345	ELECTROMAGNETIC FIELDS	3	& CHML 141	and GENERAL CHEMISTRY LAB	
ECE 351	SIGNALS AND SYSTEMS	3	ECE 220	CIRCUIT THEORY	4
ECE 355	CONTROL SYSTEMS	3	& ECEL 220	and CIRCUITS LABORATORY	
ECE 360	EMBEDDED MICROPROCESSOR SYSTEM	4		<b>Hours</b>	<b>18</b>
& ECEL 360	and MICROPROCESSOR LABORATORY		<b>Spring</b>		
ECE 440	COMMUNICATION SYSTEMS	3	MATH 244	CALCULUS IV WITH LABORATORY	3
ECE 490	SENIOR DESIGN PROJECTS I	3	ECE 312	COMPUTER ORGANIZATION & DESIGN	3
ECE 491	SENIOR DESIGN PROJECTS II	3	ECE 252	ENGINEERING ANALYSIS	3
<b>Total Hours</b>		<b>91</b>	ECE 330	ELECTRONICS	4
			& ECEL 330	and ELECTRONICS LABORATORY	
<b>Electrical Engineering Electives:</b>			UNIV 200	CIVIC ENGAGEMENT	1
<b>Code</b>	<b>Title</b>	<b>Hours</b>	Pathway Option		3
ECE 412	COMPUTER ARCHITECTURE	3		<b>Hours</b>	<b>17</b>
ECE 430	DIGITAL VLSI DESIGN	3	<b>Junior</b>		
ECE 431	Digital System Testing and Design for Testability	3	<b>Fall</b>		
ECE 435	POWER ELECTRONICS	3	MATH 368	DIFFERENTIAL EQUATIONS	3
ECE 441	COMPUTER NETWORKS	3	ECE 320	CIRCUIT THEORY II	3
ECE 451	DIGITAL SIGNAL PROCESSING	3	ECE 351	SIGNALS AND SYSTEMS	3
ECE 480	POWER SYSTEM ANALYSIS	3	ECE 335	SEMICONDUCTOR DEVICES	3
ECE 481	ELECTRIC MACHINES	3	ECE 360	EMBEDDED MICROPROCESSOR SYSTEM	4
ECE 492	SPCL STDS N ELEC & COMPU ENGIN	3	& ECEL 360	and MICROPROCESSOR LABORATORY	
ECE 493	SPCL TPCS N ELECTRL & COMPU EN	3		<b>Hours</b>	<b>16</b>
Other Courses require Chair's approval			<b>Spring</b>		
			MATH 307	PROBLYT & STATISTICS/ENGINEERG	3
			ECE 355	CONTROL SYSTEMS	3
			ECE 331	ELECTRONICS II	4
			& ECEL 331	and ELECTRONICS II LABORATORY	
			CIV 355	ENGINEERING ECONOMY	3
			Humanities & Fine Arts Option		3
				<b>Hours</b>	<b>16</b>
			<b>Senior</b>		
			<b>Fall</b>		
			ECE 490	SENIOR DESIGN PROJECTS I	3
			ECE 440	COMMUNICATION SYSTEMS	3

Technical Elective I	3
Social & Behavioral Science Option	3
<b>Hours</b>	<b>12</b>
<b>Spring</b>	
ECE 491 SENIOR DESIGN PROJECTS II	3
ECE 345 ELECTROMAGNETIC FIELDS	3
Technical Elective II	3
Technical Elective III	3
<b>Hours</b>	<b>12</b>
<b>Total Hours</b>	<b>124</b>

### Notes

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Students are required to take the Mathematics Placement Test to determine if they need to take any math courses before taking MATH 241 CALCULUS I WITH LABORATORY (C).
- Online Graduation Clearance (**to be completed during the graduating semester only**).

### Electrical Engineering Technical Electives

Code	Title	Hours
ECE 351	SIGNALS AND SYSTEMS	3
ECE 430	DIGITAL VLSI DESIGN	3
ECE 431	Digital System Testing and Design for Testability	3
ECE 435	POWER ELECTRONICS	3
ECE 441	COMPUTER NETWORKS	3
ECE 480	POWER SYSTEM ANALYSIS	3
ECE 481	ELECTRIC MACHINES	3
ECE 492	SPCL STDS N ELEC & COMPU ENGIN	3
ECE 493	SPCL TPCS N ELECTRL & COMPU EN	3

### Student Learning Outcomes

Each student who graduates from the Undergraduate Program in Electrical Engineering will have:

1. An ability to identify, formulate, and solve complex electrical engineering problems by applying principles of electrical engineering, science, and mathematics
2. An ability to apply electrical engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. An ability to communicate effectively with a range of audiences
4. An ability to recognize ethical and professional responsibilities in electrical engineering situations and make informed judgments, which must consider the impact of electrical engineering solutions in global, economic, environmental, and societal contexts
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use electrical engineering judgment to draw conclusions
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## Department of Mathematics and Statistical Sciences

Dr. Tor A. Kwembe  
Department Chair

Mrs. Alicia K. Jefferson  
Undergraduate Program Coordinator

Just Hall of Science Building, Room #225  
JSU Box 17610  
Jackson, MS 39217-0410  
Phone: (601)979-2161  
Email: [mathematics@jsums.edu](mailto:mathematics@jsums.edu)  
website: <http://www.jsums.edu/math/>

### Faculty of Department

R. Gentry, T. A. Kwembe, C. Wafo Soh, Z. Zhang, D. Chen, B. Diatta, J. Talley, N. Wang, C. Wright, Y. Yan, A. Jefferson.

### Introduction/Mission

The Department of Mathematics and Statistical Sciences prepares students for jobs that require quantitative, analytical, and critical mathematics and statistical skills. We ready our learners for graduate studies and research of international excellence spanning broadly pure mathematics, computational and applied mathematics, statistics, and mathematics education. We foster collaborations with high-tech industries and government agencies with the goal of creating career paths for our students. We strive to showcase the relevance and pervasiveness of mathematics in the modern economy through regular outreach activities.

The Department of Mathematics and Statistical Sciences offers the Bachelor of Science Degree in Mathematics (BS), with concentrations in various areas of Pure and Applied Mathematics, the Bachelor of Science in Education Degree in Mathematics Education (BS Ed), and the Bachelor of Science Degree in Statistics (BS). Our graduates pursue advanced studies in mathematics or statistics, seek careers as mathematicians or statisticians in emerging high-tech industries and federal agencies or teach mathematics at the secondary level.

### Objectives

The objectives of the Department of Mathematics and Statistical Sciences are as follows:

- To develop the quantitative skills of students who enjoy the enterprise of problem solving, statistical analysis, data visualization and the reward of discovery.
- To encourage students to pursue advanced training in mathematics or statistics commensurate with their goals and talents.
- To illustrate the role of mathematics and statistics in research, quantitative exploration of data, data analytics and visualization, and related areas of scientific endeavor.
- To prepare effective teachers of mathematics and competent mathematicians and statisticians for work in business, government, and industry.
- To offer courses in mathematics or statistics for students entering the University with mathematics or statistics deficiencies.

- To offer courses essential for those students pursuing study in major fields other than mathematics or statistics, including those that elect to minor in mathematics or statistics.

## Accreditation

The Bachelor of Science in Education Degree in Mathematics Education (BS Ed) is accredited by the Council for the Accreditation of Educator Preparation (CAEP).

## Elementary Education Majors

Elementary Education majors who are seeking a content knowledge area in mathematics must complete the following courses:

Code	Title	Hours
MATH 111	COLLEGE ALGEBRA	3
MATH 112	PLANE TRIGONOMETRY	3
MATH 226	CONCEPTS & STRUCS OF MATH I	3
MATH 306	ELEMENTARY CONCEPTS OF GEOMETR	3
MATH 493	HIST IN MATH CLASSROOM I	3
MATH Electives 300-400 Level		6
<b>Total Hours</b>		<b>21</b>

Substitute courses must be approved by the Department of Mathematics and Statistical Sciences.

## Minor Requirements

The Mathematics or Statistics minor requires a minimum of 21 semester hours in Mathematics or Statistics coursework. Students seeking a minor in Mathematics must complete 12 credit hours with a minimum grade of "C" in each course of the Calculus Sequence and 9 semester hours of coursework in mathematics beyond the Calculus Sequence. Those seeking a minor in Statistics must complete MATH 241 CALCULUS I WITH LABORATORY and 18 semester hours of statistics or data analysis courses with the approval of the Department of Mathematics and Statistical Sciences.

## Bachelors

- Mathematics (B.S.) (p. 196)
- Mathematics Education (B.S.Ed.) (p. 197)
- Statistics (B.S.) (p. 200)

## Mathematics (B.S.)

The Bachelor of Science degree in Mathematics prepares students for jobs requiring quantitative, analytical, and critical mathematics skills. We prepare our students to carry out postgraduate studies and research of international excellence spanning broadly pure mathematics, computational and applied mathematics, statistics, and computational data-enabled science and engineering. We foster collaborations with high-tech industries and government agencies with the goal of creating career paths for our students. We strive to showcase the relevance and pervasiveness of mathematics in the modern economy through regular outreach activities.

The Bachelor of Science in Mathematics curriculum develops general qualitative, quantitative, and reasoning skills in mathematics. Our graduates pursue advanced studies in mathematics and seek careers as mathematicians in emerging high-tech industries and federal and state agencies. The overall employment of mathematicians is projected to

grow 33 percent from 2020 to 2030, much faster than the average for all occupations.

## Other Requirements/Offerings

To receive the BS or BS Ed degree, a student must maintain an overall GPA of at least 2.0 and at least 2.5 in all core mathematics or statistics and English courses. The total number of hours of coursework for the BS or BS Ed is at least 120 or 124 semester hours, respectively. In addition, to receive the BS Ed degree a student must be admitted to the Teacher Education Program which is sought through the College of Education and Human Development. Students interested in entering teacher education should see the Requirements for Admission to Teacher Education in this issue of the Jackson State University Undergraduate Catalog under the College of Education and Human Development.

## Major Requirements

Code	Title	Hours
MATH 241	CALCULUS I WITH LABORATORY	3
MATH 242	CALCULUS II WITH LABORATORY	3
MATH 243	CALCULUS III WITH LABORATORY	3
MATH 244	CALCULUS IV WITH LABORATORY	3
MATH 303	INT TO SET THEO & LOGC I	3
MATH 311	ABSTRACT ALGEBRA I	3
MATH 321	MODERN GEOMETRY I	3
MATH 331	LINEAR ALGEBRA & MATRIX THEORY	3
MATH 351	ADVANCED CALCULUS I	3
MATH 355	PROBABILITY&STATISTICS I	3
MATH 368	DIFFERENTIAL EQUATIONS	3
MATH 403	SEMINAR IN MATHEMATICS	3
MATH 451	GENERAL TOPOLOGY I	3
Mathematics Elective		3
Mathematics Elective		3
<b>Total Hours</b>		<b>45</b>

## Concentration-Specialization Courses

### Pure Mathematics

- Alegbra
- Analysis
- Complex Variables
- Geometry
- Number Theory
- Set Theory and Log

### Applied Mathematics

- Differential Equations
- Financial Mathematics
- Mathematical Modeling
- Numerical Analysis
- Operations Research
- Probability and Statistics

# Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
MATH 241	CALCULUS I WITH LABORATORY	3
UNIV 100	UNIVERSITY SUCCESS	2
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 242	CALCULUS II WITH LABORATORY	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
MATH 243	CALCULUS III WITH LABORATORY	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CSC 118	COMPUTER SCIENCE I	3
MATH 244	CALCULUS IV WITH LABORATORY	3
MATH 303	INT TO SET THEO & LOGC I	3
UNIV 200	CIVIC ENGAGEMENT	1
Science Elective with Lab		4
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Junior</b>		
<b>Fall</b>		
MATH 331	LINEAR ALGEBRA & MATRIX THEORY	3
MATH 368	DIFFERENTIAL EQUATIONS	3
General Elective		3
General Elective		3
Science Elective with Lab		4
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
MATH 321	MODERN GEOMETRY I	3
MATH 355	PROBABILITY&STATISTICS I	3
General Elective		3
Math Elective		3
<b>Hours</b>		<b>12</b>
<b>Senior</b>		
<b>Fall</b>		
MATH 311	ABSTRACT ALGEBRA I	3
MATH 351	ADVANCED CALCULUS I	3
General Elective		3
Math Elective		3
Science Elective with Lab		4
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
MATH 403	SEMINAR IN MATHEMATICS	3
MATH 451	GENERAL TOPOLOGY I	3

Mathematics Elective	3
General Elective	3
General Elective	3
<b>Hours</b>	
<b>15</b>	
<b>Total Hours</b>	
<b>120</b>	

## Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- General electives must be taken with the consultation of the department academic advisor.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

## Specialization Courses

Code	Title	Hours
<b>Pure Mathematics</b>		
MATH 311	ABSTRACT ALGEBRA I	3
MATH 431	REAL ANALYSIS I	3
MATH 441	COMPLEX ANALYSIS I	3
MATH 321	MODERN GEOMETRY I	3
MATH 451	GENERAL TOPOLOGY I	3
<b>Applied Mathematics</b>		
MATH 415	PARTIAL DIFF EQUATIONS I	3
MATH 466	OPERATIONS RESEARCH	3
<b>Applied Statistics (See Advisor)</b>		

## Student Learning Outcomes

Upon the completion of the BS Degree requirements in mathematics, recipients will be able to:

- Solve real world problems using calculus methods.
- Combine mathematical methods to solve real world complex problems.
- Identify and utilize appropriate techniques to prove mathematical statements.
- Use appropriate algorithms, numerical methods, and computational technology to perform calculations and solve mathematical problems, and
- Effectively use mathematical notations and vocabulary to communicate mathematics in written form, oral presentations, and visual representations.

## Mathematics Education (B.S.Ed.)

The Bachelor of Science in Mathematics Education program is a Council for the Accreditation for Educators Preparation (CAEP) nationally recognized program that grants initial certification as a secondary mathematics teacher. Students who earn the BSED degree are also prepared to enter graduate programs in mathematics-based programs having completed upper-level mathematics courses equivalent to a Bachelor of Science degree in mathematics. To receive the BSED degree, a student must be admitted to the Teacher Education Program which is sought through the College of Education and Human Development.

## Major Requirements

Code	Title	Hours
MATH 241	CALCULUS I WITH LABORATORY	3
MATH 242	CALCULUS II WITH LABORATORY	3
MATH 243	CALCULUS III WITH LABORATORY	3
MATH 244	CALCULUS IV WITH LABORATORY	3
MATH 303	INT TO SET THEO & LOGC I	3
MATH 311	ABSTRACT ALGEBRA I	3
MATH 321	MODERN GEOMETRY I	3
MATH 331	LINEAR ALGEBRA & MATRIX THEORY	3
MATH 355	PROBABILITY&STATISTICS I	3
MATH 368	DIFFERENTIAL EQUATIONS	3
MATH 402	MTHDS OF TCHNG MATH IN SECD SC	3
MATH 403	SEMINAR IN MATHEMATICS	3
MATH 493	HIST IN MATH CLASSROOM I	3
EDCI 100	INTRODUCTION TO EDUCATION	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
SS 203	HISTORICAL&CULTURAL FOUNDATNS	3
COUN 315	Human Growth and Development	3
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
RE 310	TCHNG READING IN CONTENT AREAS	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
SS 301	INQRY-BASED INSTRN N GEOG & CE	3
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
<b>Total Hours</b>		<b>78</b>

**Note:** Students must complete MATH 399 PROBLM SLVG FOR PRE S MATH TEA before enrolling in MATH 402 MTHDS OF TCHNG MATH IN SECD SC.

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 241	CALCULUS I WITH LABORATORY	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
Natural Science Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 242	CALCULUS II WITH LABORATORY	3
Humanities & Fine Arts Option		3
Pathway Option		3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
EDCI 100	INTRODUCTION TO EDUCATION	3

MATH 243	CALCULUS III WITH LABORATORY	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MATH 244	CALCULUS IV WITH LABORATORY	3
MATH 303	INT TO SET THEO & LOGC I (W)	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
General Elective		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
MATH 311	ABSTRACT ALGEBRA I (W)	3
MATH 368	DIFFERENTIAL EQUATIONS	3
MATH 399	PROBLM SLVG FOR PRE S MATH TEA	0
PHY 201 & PHYL 201 or PHY 211 <i>and</i> PHYL 211	BASIC PHYSICS I or General Physics I <i>and</i> GENERAL PHYSICS LAB I	4
Mathematics Elective		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
MATH 331	LINEAR ALGEBRA & MATRIX THEORY	3
MATH 321	MODERN GEOMETRY I (W)	3
MATH 355	PROBABILITY&STATISTICS I	3
MATH 493	HIST IN MATH CLASSROOM I (W)	3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
MATH 402	MTHDS OF TCHNG MATH IN SECD SC (W)	3
MATH 403	SEMINAR IN MATHEMATICS	3
RE 310	TCHNG READING IN CONTENT AREAS	3
Mathematics Elective		3
Mathematics Elective		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>124</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

### Specialization Courses

Code	Title	Hours
<b>Pure Mathematics</b>		
MATH 311	ABSTRACT ALGEBRA I	3
MATH 431	REAL ANALYSIS I	3

MATH 441	COMPLEX ANALYSIS I	3
MATH 321	MODERN GEOMETRY I	3
MATH 451	GENERAL TOPOLOGY I	3

**Applied Mathematics**

MATH 415	PARTIAL DIFF EQUATIONS I	3
MATH 466	OPERATIONS RESEARCH	3

**Applied Statistics (See Advisor)**

## Student Learning Outcomes

Upon Completing the BSED Degree requirements in the secondary mathematics teaching curriculum, recipients will be able to:

- Use content knowledge to explain mathematical concepts and procedures.
- Design lesson plans that effectively utilize research-based pedagogical strategies, and
- Design instruction that supports current state and national standards for teaching and learning.

## Mathematics Education (B.S.Ed.) Algebra and Geometry Track

Code	Title	Hours
MATH 112	PLANE TRIGONOMETRY <small>Students may take either MATH 111 and MATH 112 or MATH 118</small>	3
MATH 217	INTRODUCTORY FINITE MATH	3
MATH 241	CALCULUS I WITH LABORATORY	3
EDCI 100	INTRODUCTION TO EDUCATION	3
MATH 251	FINITE MATHEMATICS I	3
MATH 242	CALCULUS II WITH LABORATORY	3
MATH 303	INT TO SET THEO & LOGC I	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
MATH 271	ELEMENTARY STATISTICS I	3
MATH 243	CALCULUS III WITH LABORATORY	3
ETEC 336	ADV MULTIMEDIA IN CLASSROOM	3
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
MATH 331	LINEAR ALGEBRA & MATRIX THEORY	3
MATH 399	PROBLM SLVG FOR PRE S MATH TEA	0
MATH 311	ABSTRACT ALGEBRA I	3
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
MATH 493	HIST IN MATH CLASSROOM I	3
MATH 321	MODERN GEOMETRY I	3
MATH 402	MTHDS OF TCHNG MATH IN SECD SC	3
MATH 403	SEMINAR IN MATHEMATICS	3
RE 310	TCHNG READING IN CONTENT AREAS	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
<b>Total Hours</b>		<b>75</b>

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
MATH 111	COLLEGE ALGEBRA	3

or MATH 118		
ENG 104	COMPOSITION I	3
UNIV 100	UNIVERSITY SUCCESS	2
Natural Science Option		3
Humanities and Fine Arts Option		3
Social and Behavioral Science Option		3
<b>Hours</b>		<b>17</b>

<b>Spring</b>		
MATH 112	PLANE TRIGONOMETRY	3
ENG 105	COMPOSITION II	3
MATH 217	INTRODUCTORY FINITE MATH	3
Humanities and Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>

<b>Sophomore</b>		
<b>Fall</b>		
MATH 241	CALCULUS I WITH LABORATORY	3
EDCI 100	INTRODUCTION TO EDUCATION	3
MATH 251	FINITE MATHEMATICS I	3
Social and Behavioral Science Option		3
Humanities and Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>18</b>

<b>Spring</b>		
MATH 242	CALCULUS II WITH LABORATORY	3
MATH 303	INT TO SET THEO & LOGC I	3
MATH 271	ELEMENTARY STATISTICS I	3
SPED 311	EXCEP CHILD & YOUTH IN THE SCHO	3
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>

<b>Junior</b>		
<b>Fall</b>		
MATH 243	CALCULUS III WITH LABORATORY	3
ETEC 336	ADV MULTIMEDIA IN CLASSROOM	3
PHY 201	BASIC PHYSICS I	3
or PHY 211		
PHYL 201	BASIC PHYSICS LAB I	1
or PHYL 211		
EDCI 301	CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS	3
MATH 331	LINEAR ALGEBRA & MATRIX THEORY	3
<b>Hours</b>		<b>16</b>

<b>Spring</b>		
MATH 399	PROBLM SLVG FOR PRE S MATH TEA	0
MATH 321	MODERN GEOMETRY I	3
MATH 311	ABSTRACT ALGEBRA I	3
MATH 493	HIST IN MATH CLASSROOM I	3
ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
<b>Hours</b>		<b>12</b>

<b>Senior</b>		
<b>Fall</b>		
MATH 402	MTHDS OF TCHNG MATH IN SECD SC	3
MATH 403	SEMINAR IN MATHEMATICS	3
RE 310	TCHNG READING IN CONTENT AREAS	3
EDCI 401	Unit Planning, Assessment, and Classroom Management	3
General Elective		3
<b>Hours</b>		<b>15</b>



Spring		
EDCI 402	CLINICAL INTERNSHIP IN STD TCH	12
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>121</b>

## Statistics (B.S.)

The Bachelor of Science degree program in Statistics provides students with a strong foundation in statistical methodology, experience in its applications, a solid background in the use of statistical computing packages, and the skills to communicate the results of statistical analysis. The BS in Statistics program provides courses that prepare students for careers in business, government, and private industry as statisticians and for graduate training in statistics and related fields.

Statistics is the science involving the collection, analysis and interpretation of data. Employment of statisticians is projected to grow 33 percent from 2022 to 2030. Government agencies will employ more statisticians to improve the quality of the data available for policy analysis. Statisticians are needed in the pharmaceutical industry as pharmaceutical companies develop new treatments and medical technologies. Businesses need statisticians to organize, analyze, and sort through the data for commercial reasons. The field will also see growth in research and development in the physical, engineering, and life sciences, where statisticians' skills in designing tests and assessing results prove highly useful.

## Major Requirements

Code	Title	Hours
MATH 241	CALCULUS I WITH LABORATORY	3
MATH 242	CALCULUS II WITH LABORATORY	3
MATH 243	CALCULUS III WITH LABORATORY	3
MATH 244	CALCULUS IV WITH LABORATORY	3
MATH 271	ELEMENTARY STATISTICS I	3
MATH 331	LINEAR ALGEBRA & MATRIX THEORY	3
MATH 351	ADVANCED CALCULUS I	3
MATH 355	PROBABILITY&STATISTICS I	3
MATH 356	PROBABILITY & STATS II	3
MATH 368	DIFFERENTIAL EQUATIONS	3
STAT 272	DATA ANALYSIS	3
STAT 300	REGRESSION ANALYSIS	3
STAT 323	NONPARAMETRIC STATISTICS	3
STAT 350	COMPTNL STATS AND DATA MNGT	3
STAT 357	ACTUARIAL SCI EXAM:PROB/EXAM I	3
STAT 408	TIME SERIES ANALYSIS	3
STAT 414	MULTIVARIATE DATA ANALYSIS	3
STAT 418	SEMINAR IN STATISTICS	3
STAT 455	EXPERIMENTAL DESIGN	3
<b>Total Hours</b>		<b>57</b>

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3

MATH 241	CALCULUS I WITH LABORATORY	3
MATH 271	ELEMENTARY STATISTICS I	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>17</b>

<b>Spring</b>		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 242	CALCULUS II WITH LABORATORY	3
STAT 272	DATA ANALYSIS	3
Humanities & Fine Arts Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>18</b>

<b>Sophomore</b>		
<b>Fall</b>		
MATH 243	CALCULUS III WITH LABORATORY	3
STAT 350	COMPTNL STATS AND DATA MNGT	3
Social & Behavioral Science Option		3
Natural Science Option		3
Pathway Option		3
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
MATH 244	CALCULUS IV WITH LABORATORY	3
MATH 331	LINEAR ALGEBRA & MATRIX THEORY	3
STAT 300	REGRESSION ANALYSIS	3
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>16</b>

<b>Junior</b>		
<b>Fall</b>		
MATH 351	ADVANCED CALCULUS I	3
MATH 355	PROBABILITY&STATISTICS I	3
Science Elective with Lab		4
General Elective		3
<b>Hours</b>		<b>13</b>

<b>Spring</b>		
MATH 356	PROBABILITY & STATS II	3
MATH 368	DIFFERENTIAL EQUATIONS	3
STAT 357	ACTUARIAL SCI EXAM:PROB/EXAM I	3
STAT 455	EXPERIMENTAL DESIGN	3
General Elective		3
<b>Hours</b>		<b>15</b>

<b>Senior</b>		
<b>Fall</b>		
STAT 323	NONPARAMETRIC STATISTICS	3
STAT 414	MULTIVARIATE DATA ANALYSIS	3
General Elective		3
Science Elective and Lab		4
<b>Hours</b>		<b>13</b>

<b>Spring</b>		
STAT 408	TIME SERIES ANALYSIS	3
STAT 418	SEMINAR IN STATISTICS	3
General Elective		3
Science Elective with Lab		4
<b>Hours</b>		<b>13</b>
<b>Total Hours</b>		<b>120</b>

Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- General electives must be taken with the consultation of the department academic advisor.
- Online Graduation Clearance (**to be completed during the graduating semester only**)

## Specialization Courses

Code	Title	Hours
<b>Pure Mathematics</b>		
MATH 311	ABSTRACT ALGEBRA I	3
MATH 431	REAL ANALYSIS I	3
MATH 441	COMPLEX ANALYSIS I	3
MATH 321	MODERN GEOMETRY I	3
MATH 451	GENERAL TOPOLOGY I	3
<b>Applied Mathematics</b>		
MATH 415	PARTIAL DIFF EQUATIONS I	3
MATH 466	OPERATIONS RESEARCH	3
<b>Applied Statistics (See Advisor)</b>		

## Student Learning Outcomes

Upon completing the BS degree requirements in statistics, recipients will be able to:

- Apply statistical content knowledge to solve problems and use appropriate technology to gain insights into statistical principles and data analysis.
- Demonstrate an understanding of statistical modeling and ability to carry out analysis using R/ Python software and interpret the results, and
- Communicate statistical ideas and methods effectively through oral presentation, written reports, visualization, and usage of popular statistical packages and graphical methods to display and interpret results independently and cooperatively.
- Students will be able to demonstrate the design of experiments and basic applied statistics, and their capabilities with a major software package.

## Other Academic Programs

Degree programs in the academic colleges are enhanced by other programs at the University such as JSU Global, Military Science Program (ROTC), Aerospace Studies (AFROTC), W.E.B. Du Bois-M.L.A. Harvey Honors College, and the Ronald E. McNair Post-Baccalaureate Achievement Program.

- Aerospace Studies (p. 202)
- JSU Global (p. 202)
- Military Science Program (ROTC) (p. 202)
- Ronald E. McNair Post-Baccalaureate Achievement Program (p. 203)
- The W.E.B. Du Bois - M.L.A. Harvey Honors College (p. 203)

## Aerospace Studies

The Aerospace Studies Program provides an opportunity for students to earn a commission in the United States Air Force/ United States Space Force while working toward an academic degree simultaneously. Skills that are the cornerstone of leadership excellence such as confidence, self-esteem, motivation, leadership and fellowship, creative thinking, self-discipline, team building, and decision-making are taught in the Air Force Reserve Officers Training Corps (AFROTC) Program.

Upon completing the AFROTC Program and all requirements for an academic degree, students can achieve their goal of a degree in their chosen academic field and a presidential commission as an Air Force/ Space Force Second Lieutenant. The objectives of the program are:

- To produce the future officer leadership of the U.S. Air Force.
- To provide an introduction to the Air Force Reserve Officers Training Corps and the Air Force (how they're organized, how they work).
- To provide first-year cadets an informative and motivational program designed to recruit, retain, and familiarize them with the Air Force way of life and foster leadership, followership, teamwork, and esprit de corps.
- To provide cadets returning from field training sufficient opportunities to demonstrate and develop the leadership and management skills needed to successfully function as an active duty officer.
- To provide cadets to be commissioned additional opportunities to demonstrate and develop the leadership and management skills needed to successfully function as an active duty officer and to adequately prepare them to transition from the ROTC environment to active duty.

The topics covered include the history and structure of the US Air Force, the Air Force's capabilities, career opportunities, benefits, Air Force installations, core values, leadership, managing diversity, team-building, communications skills, general aspects of air and space power through a historical perspective, the National Security process, regional studies, advanced leadership ethics, and Air Force doctrine. A separate Leadership Laboratory is a mandatory requirement for all cadets.

The Air Force ROTC Program is divided into the General Military Course (GMC) during the freshman and sophomore years and the Professional Officer Course (POC) for the remaining two years of college. Four-year cadets participate in a 12-day training period during the summer between their sophomore and junior years.

## JSU Global

JSU Global (formerly known as International Studies) is located on the first floor of the College of Education and Human Development.. Since September 1993, JSU Global has been leading Jackson State University's efforts to promote international education by providing resources in support of a global curriculum, facilitating individual and faculty-led study abroad experiences, and organizing a wide variety of educational and cultural programming events. The office also serves as an advising center, guiding international students throughout their educational careers and informing them of career-enhancing employment and internship opportunities. JSUGlobal also serves as the headquarters for the English as a Second Language Institute (ESLI), welcomes international political leaders, educators and businesspersons through the International Visitors Center of Jackson, hosts Fulbright Language Teaching Assistants, and advises Jackson State University's International Student Association (ISA). Students from all over the world have chosen to pursue their educational goals at Jackson State University, and they are encouraged to share the history and culture of their home countries throughout the year. These cultural exchanges culminate in Jackson State University's annual International Week, celebrated each spring semester. International and domestic students and faculty are encouraged to explore the exciting educational opportunities JSUGlobal has to offer. For more information, please contact JSUGlobal at (601) 979-1611.

## Military Science Program (ROTC)

The mission of the Department of Military Science is to train college men and women to become commissioned officers in the United States Army, Army National Guard, and United States Army Reserve.

The U.S. Army Reserve Officer Training Corps (ROTC) program consists of a voluntary two-year basic course (Freshman and Sophomore- **no military obligation**) and a two-year advanced course (Junior and Senior), which includes a five-week summer camp prior to the final year. Service veterans are eligible for academic credit (8 hours) and placement in to the advanced course if they are classified as academic juniors.

The objectives of the Army ROTC program are as follows:

1. To produce the future officer leadership of the U.S. Army
2. To provide an understanding of how the U.S. Army Reserve and the Army National Guard fit into the national defense structure.
3. To develop the leadership and managerial potential of students to facilitate their future performance as officers.
4. To develop the students' abilities to think critically and to speak and write effectively.
5. To encourage the development of mental and moral standards that are essential to military service

Students do not "join" ROTC, they simply enroll in the ROTC courses like any other college courses. The Program is a four-year program taken in conjunction with courses that are required in a major field of study.

The ROTC Program of Instructions is divided into the Basic Course (freshmen and sophomore classes) and the Advanced Course (junior and senior classes). In addition to the lecture classes, students are also required to attend a Leadership Laboratory once a week. ROTC courses count as electives in all academic majors and may be substituted

for physical education electives for non-physical education majors. Additionally, ROTC classes will not interfere with other college courses.

## The Basic Course

The Basic Course includes Military Science I classes and Military Science II classes which are taught during the freshman and sophomore years. Freshmen students attend a one-hour lecture class and sophomore students attend two hours of lecture class each week. Both freshmen and sophomores attend a one-hour Leadership Laboratory one day per week. The Basic Course instruction introduces students to basic military subjects; ROTC organization and mission, military history, military rank structure, customs and courtesies of the service, organization, and functions of the military, principles, and techniques of leadership and command, and first aid. There is no military obligation for students enrolled in the Basic Course Program.

Students who complete the Basic Course are eligible to enroll in the Advanced Course which will lead to a commission as a Second Lieutenant.

## The Advanced Course

The Advanced Course consists of Military Science III and Military Science IV classes and is composed of selected students who qualify for enrollment and demonstrate a definite potential for becoming effective leaders. Students classified as juniors and seniors are eligible to enroll in the Advanced Course. Both the juniors and seniors attend three hours of lecture classes each week and a one-hour Leadership Laboratory one day per week. Swimming classes, physical fitness training, and field training are also taught in the Advanced Course. Students who successfully complete the junior class attend a five-week summer internship at Fort Knox, Kentucky.

## General Eligibility Requirements

All students enrolled at Jackson State University or at one of the cross-enrolled colleges, are eligible to enroll in the Army ROTC Program on the campus of Jackson State University. Cross-enrolled colleges to Jackson State University for the purpose of ROTC enrollment are: Tougaloo College, Mississippi Valley State University, Mississippi College, Millsaps College and UMC School of Nursing. Cross-enrolled students at each school except Mississippi Valley State University, must register for the class at Jackson State University under regular admission policies at their respective colleges, and they must take the ROTC classes on the campus of Jackson State University. ROTC courses are taught on the campus of Mississippi Valley State University.

There are no prerequisites to participate in the Army ROTC program. Any student who is enrolled full-time at our host school or one of our cross enrolled campuses can enroll in ROTC with **no commitment** to the US Army. A scholarship cadet must sign a contract and will serve their military service obligation upon graduation.

A **contracted** Army ROTC Cadet must:

- Be a U.S. citizen.
- Be between the ages of 17 and 26.
- Have a high school GPA of at least 2.50 or College cumulative GPA of a 2.0 (minimum)
- Have a high school diploma or equivalent.
- Meet physical standards (Pass the Army Physical Fitness Test).
- Have no medical issues preventing you from serving.

- Agree to accept a commission and serve in the Army on active duty or in a Reserve Component (Army Reserve or Army National Guard).

## Ronald E. McNair Post-Baccalaureate Achievement Program

The Ronald E. McNair Post-Baccalaureate Achievement Program (McNair Scholars Program) is designed to prepare participants for doctoral studies through involvement in research and other scholarly activities. McNair Scholars are from disadvantaged backgrounds and have demonstrated strong academic potential. The goal of the McNair Scholars Program is to increase the attainment of Ph.D. degrees by students from underrepresented segments of society.

### Eligibility

Applicants must be undergraduates who are U.S. citizens or permanent residents and who attend Jackson State University. The program is designed to assist low-income, first generation college students and students from groups typically underrepresented in graduate schools (Native American, African American, Hispanic, or Asian Pacific Islander).

Additionally, candidates must:

- Be a member of Du Bois–Harvey Honors College
- Be enrolled in a degree-seeking program of study;
- Have completed at least 60 credit hours with a 2.75 overall GPA;
- Be dedicated to entering a Ph.D. doctoral program;
- Be committed to completing the McNair Summer Research Internship.

For more information, call 601-979- 4275, email [mcnairscholarsprogram@jsums.edu](mailto:mcnairscholarsprogram@jsums.edu) or visit <http://www.jsums.edu/mcnairscholarsprogram/>.

## The W.E.B. Du Bois - M.L.A. Harvey Honors College

The mission of the W.E.B. Du Bois Honors College at Jackson State University is to foster creativity, encourage intellectual curiosity and enhance critical and analytical thinking among selected high achieving students through exchanging ideas, conducting research, increasing leadership skills, achieving academically, and providing enrichment services; resulting in graduates who are technologically savvy contributing global citizens, scholars, and professionals.

### Membership Admit

- Completion of College Preparatory Curriculum,
- 26 higher ACT score or SAT equivalent,
- minimum of 3.0 or higher high school GPA and
- admitted to JSU.

### Invite

Completion of College Preparatory Curriculum, 23-25 ACT score or SAT equivalent, minimum of 3.2 High School GPA or higher and evidence of community services and/or leadership experience.

## First-Year Students

Student who within their first year earn at least 30 hours with a GPA of 3.5 or higher will be invited.

### Transfer Students

Admittance is by Honors College invitation only and students are required to be members of Phi Theta Kappa, 3.5 G.P.A. with an attained associate's degree.

Honors Courses are offered in the following disciplines and areas:

Biology, Chemistry, Civic Engagement, College Algebra, English, Experiential Learning, Health, History, Honors Colloquia, Music, Psychology, Social Science, Speech, and University Success.

## The Du Bois-Harvey Honors College Graduate

The distinction as an Honors College Graduate recognizes that students have completed the leadership development requirements and are prepared to become renowned, technologically savvy, civically engaged, contributing global leaders, laureates, scholars, and professionals.

- Completion of 30 hours of Honors courses/15 hours for Transfer Members
- Honors Colloquium
- Participation in one Honors College community service project per semester
- Participation in at least one Honors College monthly meeting and enrichment session per semester
- Study Abroad/Internships/Co-Op
- Maintain a 3.0 cumulative G.P.A.

For more information, call 601-979- 2107, email: [honorscollege@jsums.edu](mailto:honorscollege@jsums.edu) or visit <http://www.jsums.edu/honorscollege> (<http://www.jsums.edu/honorscollege/>).

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## Course Descriptions

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## Accounting (ACC)

### ACC 202 FOUNDNTS OF ACCOUNTNG (NON MAJ (3 Hours)

The course is open only to non-business students. A nontechnical introduction to the principles of financial and managerial accounting with emphasis on the use and interpretation of financial reports, managerial planning and control. The course is for the individual who seeks a basic knowledge of accounting and its uses. It is designed for the user of accounting information rather than the preparer.

### ACC 211 PRINCIPLES OF FINANCIAL ACCTNG (3 Hours)

Prerequisite: Sophomore classification recommended.

Accounting principles and concepts relative to general use of accounting information, double entry bookkeeping, and financial reporting. (F, S)

### ACC 212 PRINCIPLES OF MANGERIAL ACCTNG (3 Hours)

Prerequisite: ACC 211.

Accounting principles and concepts as applied to managerial accounting. (F, S)

### ACC 314 INTERMEDIATE ACCOUNTNG I (3 Hours)

Prerequisite: ACC 212.

A study of the functions of financial accounting, basic theory, asset and liability recognition and measurement. (F, S)

### ACC 315 INTERMED ACCOUNTING II (3 Hours)

Prerequisite: ACC 314.

A study of accounting theory and practice as applied to stockholders; equity, dilutive securities, investments, income measurement issues, and preparation and analysis of financial statements. (F, S)

### ACC 321 COST ACCOUNTING I (3 Hours)

Prerequisite: ACC 212.

An introduction to the development and use of accounting information for internal decision making. Topics include: cost terminology and classifications, cost accumulation and analysis, CVP analysis, budgets and standard costs, inventory costing, and relevant costs for decision making. (F, S)

### ACC 381 GOVERNMENTAL & NFP ACCOUNTING (3 Hours)

Prerequisite: ACC 212.

A study of accounting practice and theory as it related to state and local governments, and other non-for-profit entities. (F, S)

### ACC 423 INCOME TAX ACCOUNTING (3 Hours)

Prerequisite: ACC 212.

An in-depth study of federal and state income tax laws, tax research methods, effects on the distribution of individual income. (F, S)

### ACC 436 ADV & INTERNATIONAL ACCOUNTING (3 Hours)

Prerequisite: ACC 315.

Special accounting problems related to partnerships, consolidations, international operations, and International Financial Reporting Standards. (F, S)

**ACC 455 AUDITING (3 Hours)**

Prerequisite: ACC 315.

Analysis of the problems encountered by practicing public accountants as related to financial statements audits; preparation of working papers and reports; and professional ethics. This course has been designated as a  $\zeta$ Writing Across the Curriculum $\zeta$  course. (F, S)

**ACC 473 ADV INCOME TAX ACCOUNTNG (3 Hours)**

Prerequisite: ACC 423.

A study of federal and state income tax laws for fiduciaries, partnerships, and corporations integrating recent technologies and research applications. (F, S)

**ACC 492 ACCOUNTING INFORM SYSTEM (3 Hours)**

Prerequisite: ACC 314.

A study of theory and practice as applied to accounting information systems. The course examines the process of purchasing or designing accounting systems and a variety of topics dealing with the role of technology in building, implementing, controlling, and auditing accounting information system. A secondary goal of the course is to help students become more comfortable using computer based tools including e-mail, accounting software and the World Wide Web. (F, S)

**ACC 495 SPEC TOPICS IN ACCOUNTNG (3 Hours)**

Prerequisite: ACC 212 and consent of department chair.

Independent study of accounting topics. Credit granted for formalized research studies and/or accounting practicum (co-op). (F, S, Sum)

## Aerospace Studies (AS)

**AS 101 HERITAGE AND VALUES I (1 Hour)**

Corequisite: AS 101L.

A survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems, and an introduction to communication skills. Leadership Laboratory is mandatory for Air Force ROTC cadets, and complements this course by providing cadets with followership experiences.

**AS 102 HERITAGE AND VALUES II (1 Hour)**

Corequisite: AS 102L.

Continuation of AF 101. A weekly Leadership Laboratory is mandatory.

**AS 201 TEAM & LDRSP FUNDAMENTALS I (1 Hour)**

The AS 201 course is designed to examine the general aspects of air and space power through a historical perspective. Utilizing this perspective, the course covers a time period from the first balloons and dirigibles to the space age global positioning systems of the Persian Gulf War. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies), and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. Furthermore, the course examines several fundamental truths associated with war in the third dimension: e.g. Principles of War and Tenets of Air and Space Power. As a whole, this course provides the cadets with a knowledge level understanding for the general element and employment of air and space power, from an institutional, doctrinal and historical perspective. In addition, the students will continue to discuss the importance of the Air Force Core Values, through the use of operational examples and historical Air Force leaders, and will continue to develop their communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

**AS 202 TEAM & LDRSP FUNDAMENTALS II (1 Hour)**

Corequisite: ASL 202.

Continuation of AS 201. A weekly Leadership Laboratory is mandatory.

**AS 301 AIR FORCE LEADERSHIP STUDIES (3 Hours)**

A study of leadership, management fundamentals, professional knowledge, Air Force personnel evaluation systems, leadership ethics, and the communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical applications of the concepts being studied. A mandatory Leadership Laboratory complements this course by providing advanced leadership experience in officer-type activities, giving students the opportunity to apply the leadership and management principles of this course.

**AS 302 AIR FORCE LEADERSHIP STUDIES (3 Hours)**

Corequisite: AS 302L Continuation of AS 301.

A weekly Leadership Laboratory is mandatory.

**AS 401 NATIONAL SECURITY AFFAIRS (3 Hours)**

Corequisite: ASL 401.

Examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to the refinement of communication skills. An additional Leadership Laboratory complements this course by providing advanced leadership management principles.

**AS 402 NH SECURI AFF & PREP FOR AC DU (3 Hours)**

Corequisite: ASL 402.

Continuation of AF 401. A weekly Leadership Laboratory is mandatory.

## Aerospace Studies Lab (ASL)

**ASL 101 LEADERSHIP LABORATORY I (1 Hour)**

Consists of Air Force customs, courtesies, health, mandatory physical fitness, field training orientation, drill and ceremonies. These courses are graded Pass/Fail.

**ASL 102 LEADERSHIP LABORATORY II (1 Hour)**

Consists of Air Force customs, courtesies, health, mandatory physical fitness, field training orientation, drill and ceremonies. These courses are graded Pass/Fail.

**ASL 201 LEADERSHIP LABORATORY I (1 Hour)**

Consists of Air Force customs, courtesies, health, mandatory physical fitness, drill, ceremonies, and field training orientation. These courses are graded Pass/Fail.

**ASL 202 LEADERSHIP LABORATORY II (1 Hour)****ASL 301 LEADERSHIP LABORATORY I (1 Hour)**

Prerequisite: Completion of the General Military Course or Two-Year Program selection and/or approval of the Professor of Aerospace Studies.

Provides advanced leadership experience in officer type activities, giving students the opportunity to apply leadership and management principles. Includes a mandatory physical fitness program. These courses are graded Pass/Fail.

**ASL 302 LEADERSHIP LABORATORY II (1 Hour)**

**ASL 401 LEADERSHIP LABORATORY I (1 Hour)**

Prerequisite: Completion of the General Military Course or Two-Year Program selection and/or approval of the Professor of Aerospace Studies.

Provides advanced leadership experiences in officer type activities, giving students the opportunity to apply leadership and management principles. Includes a mandatory physical fitness program. These courses are graded Pass/Fail.

**ASL 402 LEADERSHIP LABORATORY II (1 Hour)**

Prerequisite: Completion of the POC.

Provides advanced leadership experiences in officer-type activities. These courses are graded Pass/Fail.

## Biology (BIO)

**BIO 101 INTRO TO BIOLOGICAL SCIENCE (2 Hours)**

Designed to acquaint the student with fundamental principles of biological science and their functional applications. This course is primarily for the general education program. (F, S, Sum)

**BIO 103 ENVIRONMENTAL SCIENCE (2 Hours)**

An introduction to the fundamental principles of ecology, biology, and chemistry for a better understanding of the interrelationships between man and his environment. (F, S, Sum)

**BIO 111 GENERAL BIOLOGY (3 Hours)**

An introduction to the major unifying concepts among the biological sciences: metabolism, physiology, organization, genetics, evolution, and ecology. (F, S, Sum)

**BIO 112 GENERAL BIOLOGY (3 Hours)**

Prerequisite: BIO 111.

An introduction to the major unifying concepts among the biological sciences: metabolism, physiology, organization, genetics, evolution, and ecology. (F, S, Sum)

**BIO 114 Introduction to Marine & Environmental Sciences (3 Hours)**

Prerequisite: None.

An introduction to the fundamental principles of marine and environmental sciences. Emphasis will be placed on broad treatment of aquatic and terrestrial ecology, chemistry pollution, and biodiversity for a better understanding of the interrelationships between man and his environment.

**BIO 115 GENERAL ZOOLOGY (3 Hours)**

Study of the phyla protozoa through chordata. (F, S, Sum)

**BIO 119 GENERAL BOTANY (3 Hours)**

Prerequisite: BIO 111 and 112.

Fundamentals of plant morphology, plant taxonomy and plant physiology are discussed in addition to the survey of lower and higher plants. (F, S, Sum)

**BIO 135 PROFESSIONAL DEVELOPMENT IN PRE-VETERINARY MEDICINE (1 Hour)**

This course is focused on the professional preparation of pre-veterinary medicine students and helps to prepare them for the Veterinary Medical College Application Service application process and provides them with an understanding of the academic and professional "profile" of a successful applicant for a Doctor of Veterinary Medicine Program.

**BIO 200 Introduction to Cell Biology (3 Hours)**

Emphasis on the structure and function of cellular organelles. Introduction to bioenergetics and enzymes. Laboratory instruction for developing molecular biological techniques. (Sum)

**BIO 201 INTRO TO ENVIRONMENTAL SCIENCE (3 Hours)**

Basic environmental principles involved in natural environments will be addressed. Their relationships to human environmental functioning will be stressed. (S)

**BIO 202 ELEMENTARY BIostatISTICS (3 Hours)**

This course is designed as an applied introductory course for biology students. The students will be exposed to the basic concepts of biostatistics that will form the foundation for future admission to other schools that include biostatistics in their requirements. The Statistical Analysis System (SAS) computer software will be used to analyze and explain the various concepts. The course serves as a prerequisite for BIO 511. (F, S)

**BIO 209 Principles of Genetics (3 Hours)**

Prerequisite: BIO 112, C or better.

An introductory study of the principles of heredity to include mechanisms of gene action and gene diversity.

**BIO 213 PRIN OF MICROBIOLOGY (3 Hours)**

Prerequisite: BIO 112.

Cultural and immunological properties of medically important bacteria and viruses and their epidemiology. Concepts of pathogenicity, antibiotic action, and drug resistance. (F, S, Sum)

**BIO 234 HUMAN ANATOMY & PHYSIOLOGY I (3 Hours)**

Prerequisite: BIO 111 and 112.

A study of introductory biological principles and some of the structure, physiology, and disorders of the human body with emphasis on the various organs and systems. (F, S, Sum)

**BIO 235 HUMAN ANATOMY & PHYSIOLOGY II (3 Hours)**

Prerequisite: BIO 234.

A study of the structure, physiology and disorders of the human body with emphasis on the various organs and systems. (F, S, Sum)

**BIO 236 CONCPPTS OF PUBLIC HEALTH (3 Hours)**

This course provides an introduction to the concepts and practice of public health at the community, state, and national levels. It addresses the philosophy, purpose, history, organization, function, tools, activities, and result of public health practice. (F, S)

**BIO 302 BIOINFORMATICS AND COMPUTATIONAL BIOLOGY (3 Hours)**

Prerequisite: BIO 101 or BIO 111 and CSC 115

This course aims to introduce basic concepts of bioinformatics analyses such as (multiple) sequence alignment, distance matrix for clustering, molecular phylogeny, RCSB & NCBI database searching, and NGS data analyses. Also, introduction of the important probability and statistics concept for bioinformatics is covered in this course.

**BIO 304 MARINE SCIENCE (2 Hours)**

Introduction to subject matter and scope of the various marine studies specialties with view to stimulating undergraduate interest in participating in marine sciences program. No formal laboratory. (F, S)

**BIO 313 INTRODUCTION TO MICROBIOLOGY (3 Hours)**

Prerequisite: BIO 112, 115, CHEM 141, 142, 241, and 242.

The study of bacteria, molds, yeasts, and viruses. Structure, growth, and the significance of these organisms in medicine, industry, and environment. (F, S, Sum)

**BIO 318 INTRODUCTORY GENETICS (3 Hours)**

Prerequisite: BIO 112, 115 and 119; open for juniors and seniors only.

An introductory study of the principles of heredity to include mechanisms of gene action and gene diversity. (F, S, Sum)

**BIO 332 PARASITOLOGY (3 Hours)**

Prerequisite: BIO 110, 114, and 115.

The basic principles of parasitology. Emphasis will be placed on classification, morphology, life-histories, host-parasite relationships, and ecology of the important parasites of man and other animals. (F, S)

**BIO 335 INTRODUCTION TO ANIMAL SCIENCE (3 Hours)**

Prerequisite: BIO 112 and CHEM 142

This course provides a survey of animal agriculture and companion animal husbandry. Aspects of inheritance, breeding, development, feeding and nutrition, and animal management will be introduced. An overview of animal products and the animal industry will be covered.

**BIO 390 SEMINAR IN BIOLOGY (1 Hour)**

Prerequisite: Junior or senior standing.

Student is provided with an opportunity to present an oral and written report on current scientific topics in an attempt to acquire the fundamentals of biological statistics and to evaluate critically scientific papers. (F, S, Sum)

**BIO 391 INTRODUCTION TO RESEARCH (2 Hours)**

Basic research methodology in the biological sciences will be demonstrated. Faculty advisors will be assigned on the basis of the nature of the project. (F, S, Sum)

**BIO 392 INDEPENDENT STUDY (2 Hours)**

Prerequisite: Junior or senior standing.

Students will elect a specific topic that is not covered in other biology courses. The student, working independently will be required to submit a paper that includes an exhaustive review of literature. (F, S, Sum)

**BIO 393 INTRO TO MEDICAL TERMINOLOGY (3 Hours)**

Prerequisite: Junior standing or consent of instructor.

The etymology of Greek and Latin terms as it relates to the medical sciences. (F, S, Sum)

**BIO 395 Principles of Biochemistry (3 Hours)**

Prerequisite: BIO/BIO 112 (C or better grade required) and CHEM/CHML 242 (C or better grade required).

This course is a study of the chemical composition of living matter and the chemical mechanics of life processes. (F, S, SUM).

**BIO 404 ENVIRONMENTAL SCIENCE (3 Hours)**

Prerequisite: BIO 115 and CHEM 142.

An introduction to the fundamental principles of ecology, biology, and chemistry which are necessary for a better understanding of the interrelationships between man and his environment. (F, S)

**BIO 406 HUMAN ENVIRONMENT & NATURL SYS (3 Hours)**

Emphasis will be placed on the fundamental problems that confront man from day to day. Topics for discussion are: population, energy, food, transportation, land pollution, drugs, etc.

**BIO 409 Genetics (3 Hours)**

Prerequisite: BIO 209 (C or better grade).

This course provides an in-depth course of study of the principles of heredity to include the mechanisms of gene action and gene diversity.

**BIO 412 NATURAL RES & CONS (3 Hours)**

Prerequisite: BIO 115 and CHEM 142.

A study of our natural resources with emphasis on their origin, properties, use and misuse and good conservation practices. (S)

**BIO 413 HUMAN NUTRITION (3 Hours)**

Prerequisite: BIO 218 or 234, CHEM 235 or 241.

A course designed to study the sources, requirements and chemical composition of food constituents; a survey of human diseases resulting from malnutrition. (F, S)

**BIO 423 ECOLOGY (3 Hours)**

Prerequisite: Senior standing and consent of instructor.

A study of the trophic relationships and energy transfer in the ecosystem. (F, S)

**BIO 425 INTRODUCTION TO MARINE BIOLOGY (3 Hours)**

Prerequisite: BIO 114, 115, CHEM 142 and CHML 142.

Life in the sea: an introduction to marine organisms, their position and function in the marine environment. Lecture and lab to be taken in the same semester. (F, S)

**BIO 431 INVERTEBRATE ZOOLOGY (3 Hours)**

Prerequisite: BIO 115, and CHEM 142.

An extensive review of the principal types of invertebrates not studied in the introductory zoology course. (F, S, Sum)

**BIO 433 BIOLOGY OF WATER POLLUTION (3 Hours)**

Prerequisite: BIO 313.

Biological approaches to water pollution problems are discussed. The effect of pollution on life in aquatic environments is emphasized. (S)

**BIO 435 ANIMAL NUTRITION (3 Hours)**

Prerequisite: BIO 335 and CHEM 241

This course examines the science of animal feeding and the nutrition of common animal foodstuffs with a focus on major domesticated animal species. Topics include: anatomy and physiology of animal digestive systems; classification and functions of feedstuffs (carbohydrates, proteins, lipids, minerals, and nutrients); nutritional requirements for maintenance, growth, reproduction, and lactation; common nutritional and metabolic diseases.

**BIO 440 CELL BIOLOGY (3 Hours)**

Prerequisite: BIO 111 and CHEM 242.

Emphasis on the structure and function of cellular organelles; introduction to biochemical properties of proteins, carbohydrates, lipids, and nucleic acids; the genetic code and protein synthesis. (S)

**BIO 441 HISTOLOGY (3 Hours)**

Prerequisite: BIO 115 and 218.

Development and characteristics of cellular organization of tissues and organ systems. (F, Sum)

**BIO 447 Introduction to Oceanography (3 Hours)**

Prerequisite: BIO 112 (C or better) or SCI 201 (C or better) or CHEM 142 (C or better) or consent of the instructor.

This course provides a broad overview of the marine world. Students will learn about the geological, geographical, chemical, physical and biological factors that shape the marine environment. Lecture or laboratory to be taken during the same semester.

**BIO 450 MARINE INVERTEBRATE ZOOLOGY (3 Hours)**

An introductory course in entomology that covers diverse topics including insect structure and function, benefits and harm as related to humans. Emphasis is given to insects of medical and agricultural importance. Use of insecticides to control harmful insects and the impacts of insecticides on the environment is also addressed. (F, S)

**BIO 451 INTRODUCTION TO IMMUNOLOGY (3 Hours)****BIO 461 INTRODUCTION TO VIROLOGY (3 Hours)**

An introduction to the types of viruses that infect humans, animals, and plants and bacteria, their mode of replication, mode of swiping cellular functions, human viral diseases and viral vaccines, and drug development, and the medical and economic significance of viral diseases in public health.

**BIO 470 HUMAN PHYSIOLOGY (3 Hours)**

Study of normal physiological processes in mammals with reference to abnormal conditions. (F)

**BIO 475 ENDOCRINOLOGY (3 Hours)**

Prerequisite: BIO 114, 115, CHEM 141 and 142.

An introduction to endocrine organs in animals, with major emphasis on roles of endocrine glands and their hormonal secretions in integration, control systems and metabolism. (S)

**BIO 496 Cancer Biology (3 Hours)**

Prerequisite: BIO 200/BIOL 200 (C or better grade), BIO 209/BIO 318 and BIOL 209/BIOL318 (C or better grade).

An introductory study to the principles of cancer to explore the cellular and molecule mechanisms that underlie cancer development.

## Biology Lab (BIOL)

**BIOL 101 INTRO TO BIO SCI LAB (1 Hour)**

Laboratory experience designed to re-enforce lecture materials in BIO 101. Primarily, the activities will involve the study of the basic principles in Biology including cell structures, metabolism, photosynthesis, genetics, etc. (F, S, Sum)

**BIOL 103 ENVIRONMENTAL SCIENCE LAB (1 Hour)**

Laboratories will consist of demonstrations of lecture materials as well as films and outside speakers relative to each week's topic. Field trips will be planned when appropriate. (F, S, Sum)

**BIOL 111 GENERAL BIOLOGY LAB (1 Hour)**

Prerequisite: Concurrent enrollment in BIO 111.

Laboratory experiments designed to study the principles of metabolism, photosynthesis, genetics and other principles basic to biology. (F, S, Sum)

**BIOL 112 GENERAL BIOLOGY LAB (1 Hour)**

Continuation of laboratory experiments begun in BIOL 111. Exercises will complement those topics covered in BIO 112. (F, S, Sum)

**BIOL 115 GENERAL ZOOLOGY LAB (1 Hour)**

Laboratory exercise involving the basic structure of protozoans through chordates. Laboratory must be taken with lecture (BIO 115). (F, S, Sum)

**BIOL 119 GENERAL BOTANY LAB (1 Hour)**

Laboratory exercises pertaining to plant morphology, plant taxonomy, plant physiology, and lower and higher plants are conducted. Laboratory must be taken with the lecture. (F, S, Sum)

**BIOL 200 INTRO TO CELL BIOLOGY LAB (1 Hour)**

Prerequisite: BIO112, C or better.

Designed to illustrate genetic principles through laboratory experiences. Studies on Drosophila and plant genetics are utilized. Must be taken with lecture.

**BIOL 209 Principles of Genetics Lab (1 Hour)**

Prerequisite: BIOL 111, 112.

Designed to illustrate genetic principles through laboratory experiences. Studies on Drosophila and plant genetics are utilized. Must be taken with lecture.

**BIOL 213 PRINCIPLES OF MICROBIOLOGY LAB (1 Hour)**

Methods for isolating pathogenic bacteria and determining their significant properties. Laboratory must be taken with lecture. (F, S, Sum)

**BIOL 234 HUMAN ANATOMY & PHYSIOLOGY LAB (1 Hour)****BIOL 235 HUMAN ANATOMY & PHYSIOLOGY LAB (1 Hour)****BIOL 313 INTRODUCTION TO MICROBIOLOGY L (1 Hour)**

Laboratory designed to acquaint students with techniques for culturing and identifying bacteria and fungi. Must be taken with lecture. (F, S, Sum)

**BIOL 318 INTRODUCTORY GENETICS LAB (1 Hour)**

Prerequisite: BIO 111, 112, 115, and 119.

Designed to illustrate genetic principles through laboratory experiences. Studies on Drosophila and plant genetics are utilized. Must be taken with lecture. (F, S, Sum)

**BIOL 395 Principles of Biochemistry Lab (1 Hour)**

This course will cover the theory and practice of biochemical techniques commonly used in biochemical research. Basic techniques for the purification and/or analysis of biomolecules will include chromatographic, spectrophotometric, and electrophoretic methods of analysis as well as enzyme kinetics. (F, S, SUM)

**BIOL 406 HUMAN ENVIRNMNT & NAT SYSM LAB (1 Hour)**

Laboratory associated with pollution, energy, transportation, drugs, etc.

**BIOL 413 PRINCIPLES OF HUMAN NUTRIT LAB (1 Hour)**

Laboratory activities to develop techniques for diet evaluation, qualitative and quantitative analyses of food for protein, carbohydrates, fat and mineral content. (F, S)

**BIOL 423 ECOLOGY LABORATORY (1 Hour)**

Laboratory exercises on relationships among ecosystems. Must be taken with lecture. (F, S)

**BIOL 425 INTRODUCTN TO MARINE BIOLOGY L (1 Hour)**

Field trips, collection, preservation techniques, classification and identification of marine organisms with emphasis on structure of the marine environment. Must be taken with lecture. (F, S)

**BIOL 440 CELL BIOLOGY LAB (1 Hour)**

Prerequisite: BIOL 111 and CHML 242.

Experimentation to develop techniques for cell fractionation; introduction to spectrophotometry, electrophoresis and chromatography. (S)

**BIOL 441 HISTOLOGY LAB (1 Hour)**

Exercises studying the microanatomy of tissues and organ systems. Must be taken with BIO 441. (F, S, Sum)

**BIOL 447 Introduction to Oceanography Lab (1 Hour)**

Prerequisite: Must be taken with BIOL 447.

This course provides an introduction to oceanographic gear, its application methodology and sampling techniques; field work in practical applications.

**BIOL 470 HUMAN PHYSIOLOGY LAB (1 Hour)**

Use of instrumentation for diagnostic studies of normal physiological processes with reference to certain abnormal conditions. (F)

## Business & Prof. Development (BIZ)

**BIZ 101 UNIVERSITY SUCCESS FOR BUS MAJ (1 Hour)**

This course is designed to assist first year students in their adjustment to college life and it exploring career options. Students are introduced to professional development requirements including portfolio development. In addition, library and computer orientation sessions are scheduled and conducted by library personnel. Students are requir3d to attend special clinics, and Freshman Development workshops. Professional dress is required. (Fall, Spring)

**BIZ 102 UNIVERSITY SUCCESS FOR BUS MAJ (1 Hour)**

This course is designed to assist first year students in their adjustment to college life and in exploring career options. Students are introduced to professional development requirements including portfolio development. In addition, library and computer orientation sessions are scheduled and conducted by library personnel. Students are required to attend special clinics, and Freshman Development workshops. Professional dress is required. (Fall, Spring)

**BIZ 201 INTRODUCTION TO BUSINESS (3 Hours)**

This course introduces the student to the terminology and concepts used in the world of business through a comprehensive approach designed around the functional areas of business administration. The course will focus on how the business entity interacts with its employees (management), customers (economics and marketing), and lenders and creditors (accounting and finance). Emphasis will be placed on understanding the global business environment (international business). Topics include the components and actions needed to start a business (entrepreneurship), the skills needed to manage the firm, how products and services of the business are effectively priced and marketed, sources of funds to start and grow the company, and the accounting tools that are used to track income and expenses. Business ethics and social responsibility will be emphasized as well as the use of technology within each of the functional areas mentioned above, and effective business communication skills. (Fall, Spring)

**BIZ 350 BUSINESS COMMUNICATIONS (3 Hours)**

This is an applied business communications course. Students will engage in a variety of business writing exercises to allow students to practice with simulated real-world materials and situations. Each exercise in this course aims toward developing students' skills in the rational process of business communication. It is designed to merge written, oral and nonverbal communication theory and applications in business communication. It provides the opportunity to cultivate skills and dispositions of critical thinking and collaborative inquiry dialogue, and decision-making to foster personal integrity as a foundation for ethical leadership and business communication. The course explores contemporary ethical issues in business communication, such as the impacts of globalization. Strong emphasis will be given to leadership theory and development context, conducting business research, organization, presentation competencies, developments in business communication technology, reports, proposals, networking, analytical reasoning, global inquiry, research, problem-solving and decision-making skills. Students are provided opportunities to participate in mentoring activities. Critical reading and thinking about oral and written communication is encouraged. (Fall, Spring)

## Chemistry (CHEM)

**CHEM 131 INTRODUCTION TO CHEMISTRY (3 Hours)**

Co-Requisite Mathematics 004 or higher. A study of scientific measurements, mathematic concepts, and basic principles of chemistry to prepare students for General Chemistry (CHEM 141) classes. (F, S, Sum)

**CHEM 141 GENERAL CHEMISTRY I (3 Hours)**

Prerequisite: A score of 16 or above on the Chemistry Placement Test: MATH 111 or a higher level mathematics course.  
A study of the types and properties of matter, measurement, qualitative and quantitative descriptions of chemical reactions, atomic structure, bonding and thermochemistry. (F, S, Sum)

**CHEM 142 GENERAL CHEMISTRY II (3 Hours)**

Prerequisite: A passing grade in CHEM 141 and CHML 141.  
A study of solutions, chemical equilibria, kinetics, thermodynamics, descriptive chemistry. (F, S, Sum)

**CHEM 231 INTRO TO ORGANIC CHEMISTRY (3 Hours)**

General Chemistry II. A study of scientific measurements, mathematic concepts, nomenclature, chemical bonding, structure and properties of compounds to prepare students for Organic Chemistry.

**CHEM 241 ORGANIC CHEMISTRY I (3 Hours)**

Prerequisite: CHEM 142 and CHML 142.  
Chemistry of carbon compounds, with emphasis on structure, stereochemistry, spectroscopy, and an introduction to synthesis. (F, S, Sum)

**CHEM 242 ORGANIC CHEMISTRY II (3 Hours)**

Prerequisite: CHEM 241, CHML 241.  
Chemistry of carbon compounds, with emphasis on synthesis, and an introduction to biochemistry. (F, S, Sum)

**CHEM 310 INTRO TO SCIENTIFIC RESEARCH (2 Hours)**

Prerequisite: Consent by advisors.  
The course serves as an introduction to scientific research for chemistry students and it is especially important for students entering graduate studies. The course covers scientific literature, scientific writing, scientific presentation, research ethics, and introduction to federal agencies (NSF, NIH, DoD, etc.) and their research focuses, trends, and funding opportunities.

**CHEM 320 ANALYTICAL CHEMISTRY (3 Hours)**

Prerequisite: CHEM 142, CHML 142, and CHEM 242.  
A quantitative study of the equilibrium in aqueous and non-aqueous systems and the application to analytical methods. The application of modern instrumentals techniques is emphasized. (F)

**CHEM 340 INORGANIC CHEMISTRY I (3 Hours)**

Prerequisite: CHEM 142 and CHML 142.  
This course is the first part of a series of two courses. Basic principles, such as chemical equilibrium and reaction kinetics, of inorganic reactions are emphasized in this course. The construction and application of the periodic table of the elements will be discussed. A descriptive discussion of the chemistry of elements will also be included in this course. (S)

**CHEM 341 PHYSICAL CHEMISTRY I (3 Hours)**

Prerequisite: MATH 231, 232; corequisite prerequisite: PHY 201 or 211.  
A study of fundamental concepts; includes structure, properties of gases and thermodynamics. (F)

**CHEM 342 PHYSICAL CHEMISTRY II (3 Hours)**

Prerequisite: CHEM 341, and CHML 341.  
A study of physical chemistry, theory and practice; includes structure of matter, quantum mechanics, electrochemistry and kinetics., (S)

**CHEM 371 FORENSIC CHEMISTRY (3 Hours)**

This course covers the major forensic sub-disciplines such as firearms and tool mark examination, forensic biology, arson and explosives, questioned documents, and trace evidence. Evidence categories include glass, soil, hairs, fibers, paint (surface coating), and impressions resulting from friction ridge skin, tools, foot wear, etc. (S)

**CHEM 380 INDEPENDENT STUDY (1-3 Hours)**

Prerequisite: Permission of instructor.  
Laboratory investigation on literature research of a topic selected by the student in consultation with the staff. (F, S, Sum)

**CHEM 381 CHEMISTRY SEMINAR (0.5 Hours)**

Prerequisite: Permission of instructor.  
Presentation and discussion of current chemical topics and research by students, faculty and visiting speakers. (F, S)

**CHEM 382 CHEMISTRY SEMINAR (0.5 Hours)**

Prerequisite: Permission of instructor.  
Presentation and discussion of current chemical topics and research by students, faculty and visiting speakers. (F, S)

**CHEM 410 ENVIRONMENTAL CHEMISTRY (3 Hours)**

Prerequisite: CHEM 320.

Environmental Chemistry is to study of the sources, reactions, transport, effects, and fates of chemical species in water, soil, air, and living environments, and the effects of technology thereon. This course will cover three major areas of environmental chemistry: aquatic chemistry, atmospheric chemistry, and geochemistry. Each one includes organic, inorganic, analytical chemistry and biochemistry for pollutants in the environment, their fates, and analysis. The objectives in the course are to understand how environmental system will behave for the chemical species and to learn how to analyze the pollutants in the system. (F)

**CHEM 421 CHEMICAL INSTRUMENTATION (3 Hours)**

Prerequisite: CHEM 320, CHML 320 or permission of the instructor.

A lecture course covering the theory and applications of spectroscopic chromatographic and electroanalytical methods. (S)

**CHEM 429 Organic Structure Determination by Spectroscopy (3 Hours)**

Prerequisite: A passing grade of "C" or higher in Organic Chemistry (CHEM 242)

Using of modern spectroscopic methods, mainly Nuclear Magnetic Resonance, Mass Spectrometry, X-Ray Crystallography, and Infrared Spectroscopy, for elucidation of simple to complex structures of organic compounds. Topics on new developments in modern NMR, X-Ray, MS, and IR will be updated and included.

**CHEM 431 BIOCHEMISTRY I (3 Hours)**

Prerequisite: CHEM 242.

A study of the chemical composition of living matter and the chemical mechanics of life processes. (S)

**CHEM 432 BIOCHEMISTRY II (3 Hours)**

Prerequisite: CHEM 431.

A study of the chemical composition of living matter and the chemical mechanics of life processes. (F)

**CHEM 436 PHYSICAL ORGANIC CHEMISTRY (3 Hours)**

Prerequisite: CHEM 342.

Structure, bonding, and properties of organic compounds.

**CHEM 437 ORGANIC SYNTHESIS (2 Hours)**

Prerequisite: CHEM 242.

The use of practical organic research techniques in the preparation of organic compounds. (S)

**CHEM 439 Introduction to Polymer Chemistry (3 Hours)**

Prerequisite: A passing grade of "C" or higher in Organic Chemistry (CHEM 242)

Polymer chemistry is for studying the macromolecules, natural or synthetic polymers, which can be found in everywhere in our life. Understanding the structure and the properties of these polymers with its chemical preparation is imperative for students majoring chemical science. The course will cover the types, properties, how-to synthesize, and application of polymers.

**CHEM 441 INORGANIC CHEMISTRY II (3 Hours)**

Prerequisite: CHEM 341.

This course is a continuation of the first part of the series. With the knowledge introduced in CHEM 341, a thorough discussion of the atomic properties, the nature of chemical bonds and the symmetry properties of compounds will be included in this course. The chemistry and application of transition metals will be the main theme of this course. The mechanisms of catalysis processes will also be covered. In addition, the function of inorganic elements in living systems will be briefly introduced to keep students updated to the current trends in inorganic research. (F)

**CHEM 452 ATOMIC & MOLECULAR STRUCTURE (3 Hours)**

Prerequisite: CHEM 342.

An introduction to the concepts and methods of modern molecular spectroscopy. (S)

**CHEM 458 QUANTUM MECHANICS (3 Hours)**

Prerequisite: CHEM 342.

Principles and applications of quantum theory. (F)

**CHEM 471 FORENSIC TOXICOLOGY (3 Hours)**

Pre-Requisites: CHEM 320 and CHEM 371. This course covers the major concepts of toxicology that include drug or toxin absorption, distribution, and excretion as well as binding to receptors. The processes and reactions, which transform a drug or toxin into a water soluble substance, also will be discussed. (S)

**CHEM 475 FORENSIC PRACTICUM (3 Hours)**

Prerequisite: Departmental approval and CHEM 371 and CHML 371.

Students will have an internship at a local or regional crime laboratory to satisfy the practice component of the program and spend a minimum of 8 hours per week at the laboratory for 14 weeks. (S)

**CHEM 481 CHEMISTRY SEMINAR (0.5 Hours)**

Prerequisite: Permission of instructor.

Presentation and discussion of current chemical topics and research by students, faculty and visiting speakers. (F, S)

**CHEM 482 CHEMISTRY SEMINAR (0.5 Hours)**

Prerequisite: Permission of instructor.

Presentation and discussion of current chemical topics and research by students, faculty and visiting speakers. (F, S)

## Chemistry Lab (CHML)

**CHML 131 INTRODUCTION TO CHEMISTRY LAB (0 Hours)****CHML 141 GENERAL CHEMISTRY LAB (1 Hour)**

Prerequisite: or co-requisite: CHEM 141.

Experiments in the areas covered in CHEM 141. (F, S, Sum)

**CHML 142 GENERAL CHEMISTRY II LAB (1 Hour)**

Prerequisite: CHML 141, co-requisite: CHEM 142.

Laboratory experiments in the areas covered in CHEM 142. (F, S, Sum)

**CHML 241 ORGANIC CHEMISTRY I LAB (1 Hour)**

Prerequisite: CHEM 142, CHML 142.

Co-requisite: CHEM 241. Laboratory experiments in the areas covered by CHEM 241. (F, S, Sum)

**CHML 242 ORGANIC CHEMISTRY II LAB (1 Hour)**

Prerequisite: CHEM 241, CHML 241.

Co-requisite: CHEM 242. Laboratory experiments in the areas covered by CHEM 242. (F, S, Sum)

**CHML 243 QUALITATIVE ORGANIC ANALYSIS L (1 Hour)**

Prerequisite: CHEM 241, CHML 241; Co-requisites: CHEM 242, 243, UV/Vis and mass Spectroscopy for the elucidation of structure of organic compounds by CHEM 243.

(S)

**CHML 320 ANALYTICAL CHEMISTRY LAB (1 Hour)**

Co-requisite: CHEM 320. Laboratory experiments in the areas covered by CHEM 320.

**CHML 340 INORGANIC CHEMISTRY LAB (1 Hour)**

Co-requisite CHEM 340. Laboratory experiments on inorganic chemistry principles.

**CHML 341 PHYSICAL CHEMISTRY I LAB (1 Hour)**

Co-requisite: CHEM 341. Laboratory experiments on physical chemistry phenomena. (F)

**CHML 342 PHYSICAL CHEMISTRY II LAB (1 Hour)**

Prerequisite: CHEM 341; Co-requisite: CHEM 342.  
Laboratory experiments on Physical Chemistry phenomena. (S)

**CHML 371 FORENSIC CHEMISTRY LAB (1 Hour)**

This course covers the theory and practice of techniques commonly used in forensic science including examination of biological evidence (DNA fingerprinting, bloodstains, etc.), fingerprinting, and impressions resulting from friction ridge skin, tools, foot wear, etc. (S)

**CHML 421 CHEMICAL INSTRUMENTATION LAB (1 Hour)**

Prerequisite: CHEM 320, CHML 320; co-requisite: CHEM 421.  
A laboratory course covering the use of spectroscopic, chromatographic and electrochemical instrumentation for the analysis of materials.

**CHML 431 BIOCHEMISTRY I LAB (1 Hour)**

Co-requisite: CHEM 431. Basic purification and characterization techniques in biochemistry. (S)

**CHML 432 BIOCHEMISTRY II LABORATORY (3 Hours)**

Co-requisite: CHEM 432. Basic purification and characterization techniques in biochemistry. (F)

## Civil Engineering (CIV)

**CIV 201 ENGINEERING GRAPHICS (2 Hours)**

This course is designed to equip students with skills to visualize and represent three-dimensional objects graphically. The course covers principles of computer-aided drafting and design (CADD) and includes substantial use of the AutoCAD software or equivalent. Students learn orthographic projection, two and three-dimensional drafting and pictorial drawings, graphics and charts as well as applications in various engineering approaches.

**CIV 222 ENGINEERING MECHANICS I (3 Hours)**

This course covers the calculus-based statics of particles and rigid bodies, equilibrium, distributed forces, centroids, structures, trusses, frames, machines, forces in beams and cables, friction, moments of inertia, as well as real life examples for engineering applications and systems approach.

**CIV 223 ENGINEERING MECHANICS II (3 Hours)**

This course covers calculus-based kinematics and kinetics of particles, planar kinetics of a rigid body including force and acceleration, work and energy, impulse and momentum, and vibrations with real life examples.

**CIV 240 STRENGTH OF MATERIALS (3 Hours)**

The course covers topics including forces and stresses, axial loading, torsion, pure bending, transverse loading, shear force and bending moment diagrams, transformation of stress and strain, design of beams and shafts, deflection of beams, statically indeterminate problems, and real-life examples.

**CIV 310 ENGINEERING SURVEYING (2 Hours)**

Prerequisite: PHY 211; Co-requisite: CIV 311.  
Plane surveying, measurement of distances and angles, differential leveling, traverse adjustment and area computations, topographic surveying and contours, horizontal and vertical curves, surveying computations, elements of site plan, professional ethics in surveying.

**CIV 320 STRUCTURAL ANALYSIS (3 Hours)**

Prerequisite: EN 240.  
Analysis of statically determinate and indeterminate structures for fixed and moving loads. Equations of equilibrium and compatibility. Influence lines, and shear and moment envelopes. Analysis of forces and deflections in structures by methods of moment distribution, consistent deformation, and virtual work, computer analysis of structures, real life examples.

**CIV 330 FLUID MECHANICS LECTURE (3 Hours)**

Prerequisite: EN 223, 240, and MATH 368; Co-requisite: CIVL 330.  
Fluid properties and definition; fluid statics; fluid dynamics; Bernoulli equation and linear momentum; viscous flow; drag forces and boundary layer concepts; ideal flow; velocity potential and stream functions; dimensional analysis and dynamic similitude, real life problems.

**CIV 340 INTRO TO ENVIRONMENTAL ENGINEER (3 Hours)****CIV 355 ENGINEERING ECONOMY (3 Hours)**

This course covers the economic principles of multidisciplinary engineering problems and applications of the principles in real-world projects. The course acquaint students with calculations of capitalized costs, present worth, prospective rates of return, and annual costs, and economy of equipment replacement, market forces, and firm analysis.

**CIV 360 DESIGN OF STEEL STRUCTURES (3 Hours)**

Prerequisite: CIV 320.  
Engineering properties of steel, behavior and design of members subjected to fatigue, and combined loading and compression, plate girders composite beams, open-web joists and connections. Methods of allowable design stress, and load resistance factor design. Elements of plastic analysis and design. Framing systems and loads for industrial buildings and bridges, design constraints.

**CIV 370 WATER RESOURCES ENGINEERING (3 Hours)**

Prerequisite: CIV 330 and CIVL 330.  
This course is designed to review the fundamentals and practices of water resources engineering. Students will explore water resources engineering processes in the theoretical and applied realm in the fields of closed conduit (pipe) flow, open channel flow, surface water hydrology, and groundwater flow. Application of probability and statistical concepts along with the legal, economic and environmental considerations to the analysis and design of complex hydraulic and hydrologic systems will prepare interested student for future careers in water supply, wastewater, flood plain, storm water, and groundwater management.

**CIV 380 INTRO TO GEOTECHNICAL ENGINEER (3 Hours)**

Prerequisite: EN 240, and CIV 330.  
Co-requisite: CIVL 380. Engineering soil classification, flow of water in soils, soil permeability and seepage, concepts of effective stress, stress and compressibility of soils, primary and secondary consolidation settlement, time rate of settlement, soil compaction, soil shear strength, introduction to slope stability, critical thinking and engineering judgment.

**CIV 390 INTRO TO TRNSPRTN ENGINEERING (3 Hours)**

Co-requisite: CIV 380. Introduction to planning practice and procedure, design, operation, management, and maintenance of transportation systems, with emphasis on urban issues. General characteristics of transportation engineering systems including streets, highways, transit, airways. Capacity considerations including time-space diagrams. Elementary dynamics of traffic and functional consideration of routes and terminals. Components of transportation engineering facility design including geometric design, earthwork, and pavements.



**CIV 410 CAPSTONE DESIGN I (3 Hours)**

Prerequisite: CIV 340, 360, 390, and senior standing in civil engineering. Group projects are introduced for senior students to work in teams to analyze and design civil engineering systems, and to consider various factors for design. These projects are aimed at understanding multi-disciplinary systems, interaction between design and construction professionals, realistic design constraints, economical issues, professional practice issues including importance of professional licensure and continuing education, contemporary issues, procurement of work, bidding vs. quality based selection processes. Oral presentation and written report are required.

**CIV 411 CAPSTONE DESIGN II (3 Hours)**

Prerequisite: or co-requisite: CIV 410.

Continuation of Capstone Design I. Group projects for senior students to work in teams to design civil engineering systems. Understanding of multi-disciplinary systems, interaction between design and construction professionals, realistic design constraints, professional practice issues including importance of professional licensure and continuing education, procurement of work, bidding vs. quality based selection processes, engineering professionalism and ethics. Oral presentation and written report are required.

**CIV 420 DESIGN OF CONCRETE STRUCTURES (3 Hours)**

Prerequisite: CIV 320.

Engineering properties of concrete for design, analysis and design of reinforced concrete beams, columns, one-way and two-way slabs, footings, retaining walls, and frames, design of multi-story buildings, design constraints, major design project, introduction to prestressed concrete.

**CIV 430 FOUNDATION ENGINEERING (3 Hours)**

Prerequisite: CIV 380.

Shallow foundation analysis and factors to consider for design, subsurface investigations for design, bearing capacity and settlement, mat foundations, piles, caissons, lateral earth pressures and retaining walls, site improvement techniques, design of sheet pile walls and support systems, critical thinking and engineering judgment, ethical considerations.

**CIV 431 TRAFFIC ENGINEERING (3 Hours)****CIV 432 BRIDGE DESIGN (3 Hours)**

Prerequisite: CIV 360

This course covers design of new bridges and evaluation of existing bridges in accordance with current American Association of State Highway and Transportation Officials (AASHTO) specifications. The procedures and requirements of bridge design and evaluation will be discussed, and the corresponding AASHTO code provisions will be explained through examples. Main topics include overview and history of bridge engineering, bridge design and evaluation methods and procedures, bridge superstructure design, bridge substructure design, fatigue and fracture of steel bridges, bridge load rating, advanced methods and technologies for bridge condition assessment, and case studies.

**CIV 441 WATER AND WASTEWATER TREATMENT (3 Hours)**

Prerequisite: CHEM 141, CHML 141, CIV 340, and CIVL 340.

Theories, engineering principles, and design of modern water supply and wastewater treatment processes. Physical-chemical process, including screening, sedimentation, aeration, coagulation, flocculation, filtration, adsorption, softening, and disinfection. Biological processes including activated sludge process and anaerobic processes for wastewater and sludge digestion, with emphasis on urban issues. Completion of a design project.

**CIV 451 COMPTR METHODS IN CIV ENGINEER (3 Hours)**

This course is designed to acquaint Civil Engineering students with the uses of computer programs including Microsoft Excel, MATLAB, MathCAD, ArcGIS-based HEC-RAS and HEC-HMS, and MicroStation in solving civil engineering problems and designing civil engineering systems.

**CIV 452 Construction Project Management (3 Hours)**

Prerequisite: CIV 201, CIV 240, and CIV 355

The course covers fundamental knowledge of Construction Management functions including Project Management, Cost Management, Time Management, Quality Management, Contract Management, and Safety Management. Emphasis is put on the application of each function throughout the project phases in developing problem solving skills for real world engineering applications.

**CIV 453 CONSTRUCTION ESTIMATING (3 Hours)**

Prerequisite: CIV 201, CIV 240, and CIV 355

The course covers the fundamental knowledge of quantity take-off and cost estimating of construction resources including materials, labor, and equipment. Topics include types of cost estimates, budget estimates, preconstruction services estimates, quantity take-off, self performed work estimates, subcontractor work estimates, and bid preparation in developing problem solving skills for real world engineering applications.

**CIV 454 CONSTRUCTION SCHEDULING (3 Hours)**

Prerequisite: CIV 355

This course aims to increase and improve the working knowledge of students in project scheduling and to train them as professional construction managers as stated in the program mission. Students will be provided an understanding of planning, scheduling, and monitoring of construction projects including development of critical path networks, Gantt bar charts and construction cost control and reporting practices. The students will also learn how to use the software tools to accurately prepare and analyze the project schedule and to effectively communicate the schedule to the management team.

**CIV 455 BUILDING INFORMATION MODELING AND INTEGRATED PROJECT DELIVERY (3 Hours)**

Prerequisite: CIV 355

This course covers the Building Information Modeling (BIM) and Integrated Project Delivery (IPD) approaches that address and resolve the perceived inefficiencies in the construction industry. BIM covers geometry, spatial relationships, geographic information, quantities, and properties of building components and can be used to demonstrate the entire building lifecycle including the processes of construction and facility operation. IPD deals with the integration of people, systems, business structures and practices into a single process and collaboratively harness the talents and insights of all participants on a particular construction project in order to optimize project results, increase value to the owner, reduce waste, and maximize efficiency through all phases of design, fabrication, and construction.

**CIV 461 PROF & ETHCL IS IN CIVIL ENGIN (1 Hour)**

Prerequisite: senior standing in civil engineering.

The task of this course is to reflect on the professional and ethical responsibilities of engineers, which can sometimes conflict with technical responsibilities. This course will articulate an ethical framework for engineers by critically reflecting on engineering practice and examining the ethical challenges that confront engineers working within teams and organizations. The course covers issues such as the social responsibility of engineers, attitudes, truth-telling and disclosure, whistle-blowing, professionalism, contemporary issues, and risk-assessment.

**CIV 466 ADVD DESIGN OF HYDRAULIC STRUC (3 Hours)**

Prerequisite: CIV 370.

Analysis and characteristics of flow in open channels (natural and artificial); channel design considerations including uniform flow (rivers, sewers), flow measuring devices (weirs, flumes), gradually varied flow (backwater and other flow profiles, flood routing), rapidly varied flow (hydraulic jump, spillways), and channel design problems (geometric considerations, scour, channel stabilization, sediment transport); analysis and design of hydraulic structures such as dams, spillways, etc., based on economic, environmental, ethical, political, societal, health, urban issues, and safety considerations.

**CIV 468 HAZARDOUS WASTE ENGINEERING (3 Hours)**

Prerequisite: CHEM 241, CHML 241, CIV 340, and CIVL 340.

Comprehensive study of the complex, interdisciplinary engineering principles involved in hazardous waste handling, collection, transportation, treatment, and disposal. Also covered are waste minimization, site re-mediation, and regulations important for engineering applications. Design constraints, engineering judgment, and ethical responsibility are covered. Contemporary hazardous waste issues and urban issues are also addressed.

**CIV 475 PAVEMENT DESIGN (3 Hours)**

Prerequisite: CIV 380 and 390.

Aggregate, binder systems. Theory and design of pavement structures, rigid and flexible pavement design, subgrade materials, pavement management, nondestructive testing, pavement maintenance, design constraints, infrastructure maintenance, major design project.

**CIV 476 ADVD DESIGN OF STEEL STRUCTURE (3 Hours)**

Prerequisite: CIV 360.

Behavior and design of members subjected to fatigue, dynamic, combined loading. Methods of allowable design stress, and load resistance factor design. Design of continuous beams, plate girders, composite beams, open-web joists, connections, torsion and plastic analysis and design. Framing systems and loads for industrial buildings and bridges, design constraints and a major design project.

**CIV 477 ADVD DESIGN OF CONCRETE STRUCT (3 Hours)**

Prerequisite: CIV 420.

Theory and design of reinforced concrete continuous beams, slender columns, two-way slabs, footings, retaining walls, shear walls and multi-story buildings. Design for torsion and design constraints. Framing systems and loads for buildings and bridges, design constraints and a major design project.

**CIV 481 SPCL PROBLEMS IN CIV ENGR (3 Hours)**

Prerequisite: departmental approval.

Individual investigation in a recognized major area of civil engineering of particular interest to the students that are not normally covered in regular courses. May include a co-op project.

**CIV 491 INTRNSHPS IN CIV ENGINEERING I (1-3 Hours)****CIV 492 INTRNSHPS N CIV ENGINEERING II (1-3 Hours)**

## Civil Engineering Lab (CIVL)

**CIVL 310 ENGINEERING SURVEYING LAB (1 Hour)**

Prerequisite: PHY 211; Co-requisite: CIV 310.

Field experience to measure surveying parameters including distances, angles, and elevations. Field notes, surveying equipment; critically analyze and interpret data, report writing.

**CIVL 330 FLUID MECHANICS LAB (1 Hour)**

Co-requisite: CIV 330. Laboratory experience to measure fluid properties and apply principles for application in engineering design. The experiments will include pressure and velocity measurement, application of mass, energy, and momentum principles, energy losses, forces on immersed bodies, and flow measurement devices; critically analyze and interpret data, report writing.

**CIVL 340 ENVIRONMENTAL ENGINEERING LAB (1 Hour)**

Prerequisite: CHEM 141; Co-requisites: CIV 330, 340, CIVL 330.

Experiments for the analysis of water, wastewater and certain solid wastes. Selected experiments may include determinations of water's or wastewater's pH, alkalinity, turbidity, hardness, and electric conductivity, solids, nitrogen species, dissolved oxygen, biochemical oxygen demand (BOD), chemical oxygen demand (COD), total organic carbon, and chlorinated compounds. Also included will be contaminant leaching test of some solid or hazardous wastes and absorption of contaminants by solid media. Critical analysis of experimental and interpretation of data and scientific presentation (reporting) of results are emphasized.

**CIVL 380 GEOTECHNICAL ENGINEERING LAB (1 Hour)**

Co-requisite: CIV 380. Laboratory experiments to be performed by students to obtain soil parameters for designed problems. Engineering classification of soils, grain size distribution, Atterberg limits, specific gravity, unconfined compression, compaction, in-situ field tests, consolidation, and shear strength determination, application to design problems, critically analyze and interpret data, report writing.

**CIVL 421 STRUCTURES & MATERIALS LAB (1 Hour)**

## Communicative Disorders (CMD)

**CMD 211 INTRO TO COMMUNICATIVE DISORDR (3 Hours)**

Describes normal speech, language, and cognitive development. The nature, symptoms, and etiology relating to articulation, voice, fluency, motor disorders, impaired hearing, delayed language, and acquired neurological language disorders are discussed. Open to Juniors and Seniors in other departments.

**CMD 219 PHONETICS (3 Hours)**

Provide general knowledge about the nature of speech sounds, how they are formulated, vocalized, and visually symbolized. Auditory recognition and discrimination between phonemes are stressed. The dynamics of speech sounds are considered in relation to pronunciation, phonetic change, and dialectal variation. Open to Juniors and Seniors in other departments.

**CMD 310 INTRO TO CLINICAL PRACTICUM (1 Hour)**

Prerequisite: CMD 211, 219, 312, 316, and 321.

An introduction to clinical methods and procedures. The student will earn twenty-five (25) clock hours in observation that are needed for ASHA's Certificate of Clinical Competence. The student must have earned a GPA of at least 2.5 (on a 4-point scale). Restricted to majors only.

**CMD 312 ANATOMY & PHYSIOLOGY OF SPEECH (3 Hours)**

Basic course designed for an in-depth study of the anatomical structures of the head, neck, and trunk. The physiology of these structures will be related to the process of normal breathing and verbal speech production.

**CMD 316 SPEECH AND HEARING SCIENCE (3 Hours)**

An introductory course in psychological measures of speech production, speech perception, and speech acoustics. Students will be introduced to basic elements of the physics of sound and acoustic cues relevant to the perception of speech and non-speech auditory stimuli. Open to Juniors and Seniors in other departments.

**CMD 321 LANGUAGE DEVELOPMENT (3 Hours)**

Study of acquisition and development of child language. Emphasis is placed on structural aspects of language and language-learning. Open to Juniors and Seniors in other departments.

**CMD 322 SPEECH SOUND DISORDERS (3 Hours)**

Prerequisite: CMD 211, 312, 316, and 321.

Study of the etiology, assessment, and management of disorders of articulation and phonology.

**CMD 325 LANG & COGNITIVE DISORDERS IN CHILD (3 Hours)**

Prerequisite: CMD 211, 219, 312, 316, and 321.

Study of the assessment and management of children with developmental and acquired language and cognitive disorders.

**CMD 344 ASSESSMENT OF CHILDREN (3 Hours)**

Prerequisite: 21 semester hours in basic and advanced speech pathology courses.

A study of the methods and procedures employed in testing and evaluating speech and language disorders in children.

**CMD 387 INDEPENDENT STUDY (3 Hours)**

This course allows for the exploration of topics and/or issues based upon assessed needs, interest and goals of the individual student under the guidance of a faculty member. Typically such a study will concentrate on an area not covered in other courses, or an area in which the individual student has developed particular interest and wishes to explore beyond what is covered in other/another course(s).

**CMD 410 CLINICAL OBSERVATIONS (1 Hour)**

An introduction to clinical methods and procedures. The student will earn twenty-five (25) clock hours in observation that are needed for ASHA's Certificate of Clinical Competence. The student must have earned a GPA of at least 2.5 (on a 4-point scale). Restricted to majors only.

**CMD 423 INTRODUCTION TO AUDIOLOGY (3 Hours)**

Prerequisite: CMD 312, 316, 321, 322, and 325.

Study of the physics of sound, the anatomy and physiology of the ear, hearing loss, and basic audiological assessment.

**CMD 441 INTRO TO AURAL REHABILITATION (3 Hours)**

The course will include principles of habilitation /rehabilitation for communication disorders related to hearing impairment.

**CMD 446 SEMINAR IN COMMUNICATIVE DISORDERS IN CHILDREN FROM DIVERSE BACKGROUNDS (3 Hours)**

The course serves as the capstone class for seniors in the undergraduate communicative disorders major. The class provides opportunities for bridging knowledge of communication disorders in children with evidence-based interventions.

**CMD 450 SPCH-LANG PATHOLGY SERS IN SCHL (3 Hours)**

Prerequisite: CMD 322, 324, and 325.

Study ethics, case load selection, disability criteria, behavior management, as well as the administration and organization of speech-language programs in schools.

**CMD 480 CLINICAL PRACTICUM (3 Hours)**

Prerequisite: CMD 310, 322, 324, 325, and 344.

Supervised clinical experiences in speech, language, and hearing disorders.

**CMD 486 CLINICAL PRACTICUM IN SLP II (3 Hours)**

Prerequisite: CMD 310, 322, 324, 325, 344, and 480.

Supervised clinical experience in speech, language, and hearing disorders.

**CMD 488 SEMINAR IN CAREER AND PROFESSIONAL DEVELOPMENT (2 Hours)**

Students will explore and demonstrate knowledge related to educational and occupational options for persons who have a BS degree in communicative disorders.

## Computer Engineering (CPE)

**CPE 431 DIGSYSTEM TESTING AND DESIGN (3 Hours)**

Prerequisite: CPE 330 and EN 212.

This course introduces fundamental techniques for detecting defects in VLSI circuits. Topics include fault models, fault detection, and schemes for designing systems to be easily testable and with self-test capability.

**CPE 471 BIOMEDICAL SIGNAL PROCESSING (3 Hours)**

This course introduces two fundamental concepts of signal processing: linear systems and stochastic processes. Various estimation, detection and filtering methods are developed and demonstrated on biomedical signals. The methods include harmonic analysis, autoregressive model, Wiener and Matched filters, linear discriminants, and independent components.

**CPE 472 BIOMEDICAL MATERIALS (3 Hours)**

An overview of biomaterials in three basic classes: metals, ceramics, and polymers. Topics include biomaterials used in special medical applications such as tissue replacement, absorbable and non-absorbable sutures, soft tissue replacements. Tissue, body and blood response to implants will be investigated.

## Computer Science (CSC)

**CSC 115 DIGITAL COMPUTER PRINCIPLES (3 Hours)**

An introduction to the study of computer science. Subject matter consists of word processing, spreadsheet, database, graphics, computing, data processing, the organization of a computer, input and output devices, number systems, internal data representation and an introduction to a high-level programming language. (F, S, Sum)

**CSC 118 COMPUTER SCIENCE I (3 Hours)**

Prerequisite: MATH 118 or equivalent, CSC 115 or equivalent.

This is the first course in the computer science programming sequence and is required of all computer science majors. Course objectives include: introduction to problem-solving methods and algorithm development; definition of language syntax and semantics of a high-level programming language; and developing the ability to design, code, debug, document, and successfully execute programs. Topics include objects and classes, data types, applets and graphics, decision statements, iteration, methods, testing and debugging, arrays, sorting and searching, inheritance, interfaces, and polymorphism.

**CSC 119 COMPUTER SCIENCE II (3 Hours)**

Prerequisite: CSC 118.

This course is the follow-up of CSC 118. Additional topics in Object Oriented Programming covered in this course. Then the emphasis shifts to object oriented analysis and design. This course covers I/O streams, exception handling, threads, reflection, UML, object-oriented analysis and design, object-oriented graphical interfaces, design patterns, and refactoring. The course consists of two lecture hours and one laboratory hour. The course consists of two lecture hours and one laboratory hour. (F,S).

**CSC 214 PROGRAMMING FOR THE WEB (3 Hours)**

Prerequisite: CSC 119, CSCL 119.

This course is designed for students who have computer programming experience and who want to write Web applications. Students will learn the basic programming skills and languages that are needed to implement distributed Web applications. Topics include client-side programming techniques including HTML, Dynamic HTML and JavaScript; server-side programming techniques including CGI programming using Perl; and Web architectures and servers. (S)

**CSC 215 DATA ANALYTICS (3 Hours)**

This course introduces students to data analytics – the science of examining raw data and deriving conclusions from it. Data analytics is used in business and industry to make better business decisions and in science to verify existing theories. It involves extracting useful properties of data using concepts from statistics, mathematics and computer science. Students will use statistical methods, machine learning algorithms and software tools for analyzing data from science, business and industry. The course is designed for students in a variety of fields including statistics, artificial intelligence, engineering, marketing, finance, etc. The course consists of two lecture hours and one laboratory hour. (F, S)

**CSC 216 COMPUTER ARCHITECTURE & ORGNZA (3 Hours)**

Prerequisite: CSC 119, 225, CSCL 119, EN 212, ENL 212; co-requisite: CSCL 216.

Students will learn functional behaviors and structural organizations of a computer. Topics include machine level representations of data, computer arithmetic, instruction set architecture and assembly language, datapath and control, memory system and bus architectures and I/O devices. Also, the compilation and the assembly processes, and linking and loading are covered. (F, S)

**CSC 225 DISCRETE STRUCTURES (3 Hours)**

Prerequisite: CSC 118, CSCL 118, MATH 118 or Higher.

Introduces the foundations of discrete mathematics as they apply to computer science, focusing on providing a solid theoretical foundation for further work. Topics include basic logic, proof techniques, sets, bags, ordered structures, graphs, trees, facts and properties of functions, and construction techniques. (F, S)

**CSC 228 DATA STRUCTURES & ALGORITHMS (3 Hours)**

Prerequisites: CSC 119. The main objective this course is to study data structures (e.g. arrays, lists, binary tree, heaps, etc.), their properties and purposes, and algorithms (e.g. graph and tree algorithms, minimal paths, greedy algorithms, divide and conquer, dynamics programming) to manipulate these structures. A participate emphasis will be placed on understanding the theoretical foundations of data structures and associated algorithms, but also on their practical development from a software engineering perspective, and their associated algorithmic analysis. The course consists of two lecture hours and one laboratory hour. (F,S).

**CSC 235 SECURITY AWARENESS (3 Hours)**

Prerequisite: CSC 115 or equivalent.

This course will increase students' understanding of cyber security issues and practices. It will teach them need-to-know information about staying secure and how to avoid security attacks through hands-on-projects.

Topics covered will include: personal security, mobile security, Internet security, computer security, and workplace security. The course consists of two lecture hours and one laboratory hours. (F,S)

**CSC 245 INTRODUCTION TO BIOINFORMATICS (3 Hours)**

Introduces the foundations of Bioinformatics as they apply to computer science, focusing on providing a solid theoretical foundation in Biology for further work. Topics include sequence Alignments, Evolutionary processed, Genome characteristics, secondary structures & tertiary structures of proteins, Cells and organisms. The course consists of two lectures hours and one laboratory hours. (F,S).

**CSC 323 ALGORITHM DESIGN AND ANALYSIS (3 Hours)**

Prerequisite: CSC 228, CSCL 228.

Introduces students to various techniques to design and analyze algorithms. Topics include examples of computational problems, basic issues related to algorithms, efficiency comparison, and the design and analysis of brute force, divide-and-conquer, decrease-and-conquer, and transform-and-conquer algorithm design strategies. (F, S)

**CSC 325 OPERATING SYSTEMS (3 Hours)**

This course introduces the major concepts of process communication and synchronization, protection, performance measurement, and causes and evaluations of the problems associated with mutual exclusions and process synchronization among the concurrent processes. This course introduces and analyzes various operating systems in terms of professor management, memory management, device management, information management, and distributed systems management. The course consists of two lecture hours and one laboratory hour. (F,S)

**CSC 330 DATABASE SYSTEMS (3 Hours)**

Prerequisite: CSC 228.

This course is designed to introduce students to the concepts and theories of database systems. Topics include: information models and systems; the database environment; data modeling; conceptual modeling using the entity-relationship approach and mapping to relational tables; the relational model including the relational data structure, integrity rules, relational algebra and relational calculus; normalization; data definition and data manipulation in SQL; conceptual, logical, and physical database design; security; transaction management; query processing; and advanced topics in database systems. The course consists of two lecture hours and one laboratory hour. (F, S)

**CSC 335 COMPUTER FORENSICS (3 Hours)**

Prerequisite: CSC 325.

This course introduces students to topics in computer crimes and computer forensics. Students are required to learn ways to uncover, protect, and exploit digital evidence. Topics covered will include: e-mail investigation, data hiding, live acquisitions, processing a crime scene, data acquisition, analysis and validation, computer crimes, and cell phone and mobile device forensics. The course consists of two lecture hours and one laboratory hour. (F,S)

**CSC 350 ORGANIZATION OF PROGRAM LANGUA (3 Hours)**

Prerequisite: CSC 216, 228, CSCL 216, 228.

Study of the organization and specification of programming languages. Topics include an overview of programming languages; issues in language design, including typing regimens, data structure models, control structure models, and abstraction; virtual machines; language translation; interpreters; compiler design; lexical analysis; parsing; symbol tables; declaration and storage management; code generation; and optimization techniques. (F, S)

**CSC 390 COMPUTER SCIENCE SEMINAR (1-3 Hours)**

Discussion on trends in computer science. Students are required to prepare a paper and present it to their peers. Students who have participated in a Co-op Program will conduct a seminar discussing their work assignments.

**CSC 435 COMPUTER NETWORKS (3 Hours)**

Prerequisite: CSC 323,325.

The CSC 435 course will primarily focus on the following five layers of the TCP/IP protocol stack: Physical, Link, Network, Transport and Application layers. Topics to be covered include: Physical Layer – encoding and decoding data for short-distance and long-distance communications; Link Layer – local area network technologies and their extension using interconnection devices; Network Layer – routing protocols, IP addressing, subnets, datagram forwarding, fragmentation and other auxiliary network-level communication protocols; Transport Layer – UDP and TCP and Application Layer – Socket programming. The course will also cover appropriate security aspects for each of the above layers. The course consists of two lecture hours and one laboratory hour. (F,S)

**CSC 437 COMPUTER SECURITY (3 Hours)**

Prerequisite: CSC 325.

This course will examine the risks of security in computing, consider available countermeasures, controls, and examine some of the uncovered vulnerabilities. Topics covered will include: Cryptography, Program Security, Operating System Security, and Network Security. The course consists of two lecture hours and one laboratory hour. (F,S)

**CSC 441 COMPUTERS AND SOCIETY (3 Hours)**

Prerequisite: CSC 325 and 330.

This course presents concepts of computer moral and legal issues, describes the impact of computers on society and presents techniques which are applicable in addressing problems posed by the social impact of computers. As a Service Learning Course, students will be able to help agencies and businesses in educating them on the most recent Anti-virus software available, viruses, e-mail scams, privacy issues, intellectual property rights, and computer crimes. (F, S)

**CSC 450 SENIOR PROJECT (3 Hours)**

Prerequisite: CSC 325 and CSC 475.

Students will design, code, test, implement and document a large and complex application program. (F, S)

**CSC 456 AUTOMATA, COMPUTABILITY & FORMAL LA (3 Hours)**

Prerequisite: CSC 350 and a knowledge of discrete structures.

An introduction to formal models of computation. Assignments will develop students skills in understanding rigorous definitions in computing environments and in determining their logical consequences.

**CSC 460 ARTIFICIAL INTELLIGENCE (3 Hours)**

Prerequisite: CSC 323.

An introduction to the theory, research paradigms, implementation techniques, and philosophies of artificial intelligence. Introduction to Prolog, Lisp and expert system-shell programming.

**CSC 475 SOFTWARE ENGINEERING (3 Hours)**

Prerequisite: CSC 330.

Introduction to software engineering, software design, APIs, software tools and environments, software development processes, software requirements and specifications, software verification and validation, software implementation, software evolution, and software project management. (F)

**CSC 499 SPECIAL TOPICS - WEB PROGRAMMI (3 Hours)**

Prerequisite: Approval of instructor.

Advanced, specialized topics selected on the basis of mutual interest of the student and the instructor.

## Counseling (COUN)

**COUN 315 Human Growth and Development (3 Hours)**

This course is designed to provide a broad overview of processes, patterns, and influence on human development and learning from birth through adolescence. Special emphasis will be placed on cognitive, social-emotional and physical development during the early childhood, middle childhood, and adolescent years; cultural and ecological influences on the developing child such as the family, the school, and the peer group. Particular emphasis will be placed on the role of learning throughout the developmental process.

## Criminal Justice (CJ)

**CJ 100 INTRODUCTI TO CRIMINAL JUSTICE (3 Hours)**

The student of the major components or sub-systems of criminal justice systems in America. Special consideration will be devoted to analyzing Law Enforcement, Law Adjudication and Correction from a functional as well as an administrative perspectives. (F, S, Sum)

**CJ 200 INTRO TO LAW ENFORCEMENT (3 Hours)****CJ 210 INTRO CORRECT SERVICES (3 Hours)**

Principles of formal control devices, with emphasis on legal systems, philosophical background of criminal justice systems and Anglo-Afro experience. Introduction to criminal jurisprudence and a descriptive overview of present criminal justice components.

**CJ 212 CRIMINAL LAW (3 Hours)**

Prerequisite: CJ 210 or consent of instructor.

Examination of precedent setting cases of procedural criminal law in the United States and their application to American governance in producing a formal social control mechanism. Cases which develop the rights of the individual in a changing legal order.

**CJ 215 ETHICS IN CRIMINAL JUSTICE (3 Hours)**

The history of prison reform in the United States; the facade of reform, anatomy of reform efforts; elements of real reform, discussion of research concerning prison reform.

**CJ 220 CORRECTIONS AND REHABILITATION (3 Hours)**

Prerequisite: CJ 210 or 212, or consent of the instructor.

The American Correctional System. This course provides an overview of the rights of the convicted in the United States. Topics covered include: Conviction, adjudication and their consequences, attacks upon validity of a conviction, past conviction, legal rights of probationers, prisoners, and parolees; an overview; and state and federal remedies for enforcement of prisoners' rights.

**CJ 304 JUVENILE JUSTICE (3 Hours)**

An overview of the Juvenile Justice System in the United States and a case law approach to the topics of jurisdiction, adjudication, arrest search and seizure, preliminary procedures, initiation of proceedings, and the judicial process. (F, S)

**CJ 310 WOMEN & CRIMINAL JUSTICE SYSM (3 Hours)**

A critical analysis of women and crime. Includes theories about crime causation, the women's liberation movement and crime and women in prison.,

**CJ 326 ISS & PROC OF CRM JUS RS (3 Hours)**

Acquaints the student with the procedures and techniques employed in criminal justice research. Emphasis is on the scientific processes of social research, problem development, the role of theory in research, research design, sampling, data collection, statistical analysis, table construction and interpretation.

**CJ 328 OFFENDER'S RIGHTS (3 Hours)**

Legal problems from conviction to release; presentence investigations, sentencing, probation and parole; incarceration, loss and restoration of civil rights. (Emphasis on practical SOC 102 legal problems confronting the probation and parole officer and the correctional administrator.)

**CJ 330 COMMUNITY CORRECTIONS (3 Hours)**

Techniques and procedures utilized in the supervision of adult and juvenile probationers and parolees. Preparation of social history, pre-hearing; and pre-sentence investigation reports. Emphasis on practical problems confronting the probation and parole officer.

**CJ 333 CRIMINOLOGY (3 Hours)**

Prerequisite: CJ 100.

Theories of the genesis of criminal behavior in terms of the person and the group; theories of crime and punishment.

**CJ 399 CORPORATE SECURITY MNGT (3 Hours)**

This is a special workshop which informs students, practitioners, and citizens of the historical developments of security and the role of technology in recent developments. Focuses on loss prevention, risk management and safety for personnel in security.

**CJ 426 CRIMINAL JUST ORGANZTN & MNGT (3 Hours)**

An overview of management and leadership principles as applied to criminal justice organizations (law enforcement, courts, and corrections).

**CJ 440 COMP STDY OF CRIMINAL JUSTICE (3 Hours)**

Prerequisite: Seven hours of senior standing.

Comparison of American Criminal Justice System with that of other federated nations.

**CJ 443 FOUND OF CRIMINAL INVEST (3 Hours)**

Prerequisite: Six hours of senior standing and consent of instructor. Physical evidence, people, and documents; their pertinence to criminal investigation. Ethical problems; impact of legal systems on investigative process; elements of effective testimony. Lectures and case materials.

**CJ 445 INTRO TO CRIMINALISTICS (3 Hours)**

Prerequisite: Six hours of senior standing.

Role of criminalistic as a forensic science. Investigative and probative values of clue materials such as fingerprints, blood, firearms, shoe impressions, tool imprints, and glass. Advantages and limitations of instrumental analysis; nature of expert testimony.

**CJ 447 FINANCIAL INVESTIGATIONS (3 Hours)**

Prerequisite: ACC 314 and CJ 443.

Methods of tracing funds, recordkeeping, interviewing for detecting and resolving crimes, theoretical principles and applications of techniques.

**CJ 451 SOCIAL STATISTICS (3 Hours)**

Prerequisite: Senior standing.

Basic methods of presenting, analyzing and interpreting social data through statistical methods with concentration on statistical series frequency distributions, normal curve measures of central tendency, dispersion, variability, correlations, and such analysis of variance as chi-square.

**CJ 460 LAW ENFORCMNT SOCIETL RE (3 Hours)**

Prerequisite: Seven hours senior standing.

Consideration of realistic approaches to selected law enforcement problems. Emphasis on establishment of beneficial relationship between law enforcement agencies and subculture group,

**CJ 464 SEM:COURT PROC FAMLY LAW (3 Hours)**

Philosophy and procedures of the juvenile court, dependency and delinquency; evaluations of juvenile court practices. Family law.

**CJ 470 DIRECTED STUDY CRIM JUSTICE (3 Hours)**

Designed for academic flexibility. Take the semester prior to graduation.

**CJ 471 CORRECTIONAL COUNSELING (3 Hours)**

Counseling psychology with emphasis on principles and procedures; the theoretical foundations of counseling; casework techniques; therapeutic techniques and processes.

**CJ 482 INTERNSHIP THEORY (3 Hours)**

In-service students will have to do a minimum of eighteen weeks (one semester). Non-inservice students will be placed in agencies dealing with some aspects of Law Enforcement and Corrections to fulfill the three-hour requirement.

**CJ 483 SEMINAR IN CRIMINAL JUST (3 Hours)**

Seminar in current legal problems in Law Enforcement to be taken concurrently with field work. The course deals with issues arising from legal nature of the Criminal Justice System. Primary consideration of recent or currently pending U.S. Supreme Court cases.

**CJ 484 INTERNSHIP AGENCY PLACEMENT I (3 Hours)**

This course is designed to be place students in various agencies related to criminal justice and social services. Students will complete a minimum of 240 hours during the semester.

**CJ 485 INTERNSHIP AGENCY PLACEMENT II (3 Hours)**

This course is designed to place students in various agencies related to criminal justice and social services. Students will complete a minimum of 240 hours during the semester.

**CJ 487 CRIME MAPPING & ANALYS U GIS (3 Hours)**

Data analysis and permission of the instructor. This course will introduce students to the basic techniques of crime mapping and analysis. Students will acquire skills for collecting, entering, and interpreting crime data using ArcGIS for crime mapping.

## Curriculum and Instruction (EDCI)

**EDCI 100 INTRODUCTION TO EDUCATION (3 Hours)**

Prerequisite: to all other education courses for prospective teachers and is to be taken during the Freshman year by students seeking careers in Teacher Education.

It is a multipurpose foundation course designed to give an overview of teaching and learning. Requires 10 clock hours of field-based activity.

**EDCI 101 PRAXIS CORE MATH PREP (3 Hours)**

This 3 hr. course is designed to prepare potential teachers for the PRAXIS CORE Mathematics Exam that is necessary to be admitted into Teacher Education. Emphasis is placed on content specifications of the PRAXIS CORE Mathematics Exam, study skills and simulated examinations. Upon completion, candidates should be able to demonstrate an understanding of the content necessary for successful completion of the PRAXIS CORE Mathematics Exam.

**EDCI 102 PRAXIS CORE READING PREP (3 Hours)**

This course is designed to prepare potential teachers for the PRAXIS CORE Reading Exam that is necessary to be admitted into Teacher Education. Emphasis is placed on content specifications of the PRAXIS CORE Reading Exam, study skills and simulated examinations. Upon completion, candidates should be able to demonstrate an understanding of the content necessary for successful completion of the PRAXIS CORE Reading Exam.

**EDCI 103 PRAXIS CORE WRITING PREP (3 Hours)**

This course is designed to prepare potential teachers for the PRAXIS CORE Writing Exam that is necessary to be admitted into Teacher Education. Emphasis is placed on content specifications of the PRAXIS CORE Writing Exam, study skills and simulated examinations. Upon completion, candidates should be able to demonstrate an underwriting of the content necessary for successful completion of the PRAXIS CORE Writing Exam.

**EDCI 120 PRACTICAL CHILDCARE EXPERIENCE (3 Hours)**

Designed to introduce the students to a variety of personnel certification programs and to assist in the preparation for assessment when appropriate (i.e., Child Development Associate [CDA] and National Association of Education for Young Children's Validation [NAEYC]). Includes an in-depth review of the functional areas providing the basis for competency goals as designated by validating agencies. (D)

**EDCI 121 INVTNS,PROB&ISS IN CHDCR (3 Hours)**

A comprehensive study of the growth and development of the infant and toddler; including physical environment, care and handling, immunizations and health care, toilet training, developmentally appropriate activities, and the special needs of infants and toddlers. (D)

**EDCI 122 FMLY DYNAM&INTRPRNL SKILLS (3 Hours)**

Discuss the development of family structures and the various types and functions of families. Emphasizes basic communication skills and their application within the family; family values; and the caregiver's role in the family. (D)

**EDCI 200 Elementary Mathematics Methods (3 Hours)**

The foundations for this course are the Professional Standards for Teaching Mathematics set forth by the National Council of Teachers of Mathematics and the Career and College Readiness Standards for Mathematics. This course centers on children's thinking in mathematics and classroom practices that support and develop children's thinking.

**EDCI 208 MTHDS & MTRLS OF ERLY CH (3 Hours)**

This course is designed to investigate curricula methods and materials for teaching nursery, kindergarten and primary children. This includes preparation, executive, and evaluation of materials and methods within the subject matter areas of mathematics, science, social science, music, art, and language arts. (F, S)

**EDCI 220 TCHG&LRNG STYLES YOUNG CHILDRE (3 Hours)**

Prerequisite: EDCI 120, 121, 122, or special permission by the department Chair prior to enrollment.

Instructional strategies of content and materials, and evaluation of child care procedures in programs designed for infants, toddlers, and pre-school children. (D)

**EDCI 221 ADMIN OF CHILDCARE SERVICES (3 Hours)**

Leadership styles, director-staff relationships, staff training, and goal setting are explored within the framework of developing lessons with appropriate developmental activities for young children. Construction of lesson plans, integration of yearly curriculum goals with weekly plans and evaluation of curriculum should be included. (D)

**EDCI 301 CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS (3 Hours)**

This course explores theories and various models of discipline that enhance student motivation, classroom management, and learning. Its focus is to develop an understanding of the needs of diverse student populations and creating an atmosphere for learning in the classroom. Emphasis will be placed on the development of a personal discipline system, learning environment creation and management, and parental involvement.

**EDCI 303 PARENTS,CHILD &TEACHRS INTRACT (3 Hours)**

This course examines the importance of developing good relationships between parent, children and teachers during the early childhood and elementary years. The goal is to assist students to delineate nonblaming environments where dialogue and mutual planning can take place between families and school personnel.

**EDCI 305 CHILD GUIDANCE & CLASSROOM MA (3 Hours)**

This course is designed to provide comprehensive information on the nature and need of infants, toddlers, and pre-school children. Emphasis is placed on psychological, sociological, and physiological development and growth.

**EDCI 306 EDUCATIONAL PSYCHOLOGY (3 Hours)**

Application of psychological principles of student learning and achievement, teaching methods, and performance assessment.

**EDCI 320 FIELD EXPERIENCE IN CHILDCARE (3 Hours)**

Prerequisite: EDCI 120, 121, 122, 220, or special permission by the department Chair prior to enrollment.

This course is of the practical learning experiences engaged in a more intensified and concrete manner. These experiences occur in off-campus, school, and community situations where opportunity is given to the student to test theories of teaching and learning, to initiate and test ideas with children. With guidance and supervision, the student is also given the opportunity to develop the ability, initiative, and responsibility for planning, guiding, and evaluating the total child care program. (D)

**EDCI 399 PRAXIS CIA AND PLT PREPARATION (3 Hours)**

This course is designed to prepare potential teachers for the PRAXIS Curriculum, Instruction and Assessment the Principles of Learning and Teaching exams that are required for teacher certification. Emphasis is placed on content specifications of the PRAXIS CIA & PLT Exams, study skills and simulated examinations. Upon completion, candidates should be able to demonstrate an understanding of the content necessary for successful completion of the PRAXIS CIA & PLT Exams.

**EDCI 400 THEORY&PRIN IN EARLY CHD (3 Hours)**

This course is concerned with the basic history, philosophy, theories, and principles underlying early childhood education. (D)

**EDCI 401 Unit Planning, Assessment, and Classroom Management (3 Hours)**

This course is designed to integrate research on effective teaching and learning with theory and practice. Candidates will develop an understanding of unit planning, traditional and authentic assessment, and how they are used to guide instructional practice. Additionally, candidates will be introduced to classroom management strategies and teaching routines through video analysis and rehearsal. Candidates will apply skills in unit planning, assessment, data analysis, and classroom management during a clinical experience parallel to each candidate's respective discipline.

**EDCI 402 CLINICAL INTERNSHIP IN STD TCH (12 Hours)**

(A;Elementary Education, B;Secondary Education). This course is a continuation of the practical learning experiences engaged in during the 401C course, but in a more intensified and concrete manner. These experiences occur in an off-campus school and community situations for twelve weeks where opportunity is given to the student teacher to test theories of teaching and learning, to initiate and test ideas with children. With guidance and supervision, the student teacher is also given the opportunity to develop the ability, initiative and responsibility for planning, guiding and evaluating the total program of the children with whom he/she is working.

## Curriculum and Instruction Lab (EDCL)

### EDCL 100 INTRO TO EDUCATION LAB (0 Hours)

The lab is a required co-requisite to EDCI 100 and is designed to provide students with preparation, training, and practice with mandated licensure examinations, i.e., Praxis Core (10 hours required).

## Drama (DR)

### DR 101 PRODUCTION LABORATORY (1 Hour)

Practical application in at least one departmental production activity. Required of freshman and sophomore majors. Open to non-majors. Repeatable to a maximum of six

### DR 102 PRODUCTION LABORATORY (1 Hour)

Practical application in at least one departmental production activity. Required of freshman and sophomore majors. Open to non-majors. Repeatable to a maximum of six

### DR 103 PRODUCTION LABORATORY (1-3 Hours)

Practical application in at least one departmental production activity. Required of freshman and sophomore majors. Open to non-majors. Repeatable to a maximum of six

### DR 104 PRODUCTION LABORATORY (1 Hour)

Practical application in at least one departmental production activity. Required of freshman and sophomore majors. Open to non-majors. Repeatable to a maximum of six

### DR 105 PRODUCTION LABORATORY (1 Hour)

Practical application in at least one departmental production activity. Required of freshman and sophomore majors. Open to non-majors. Repeatable to a maximum of six

### DR 106 PRODUCTION LABORATORY (1 Hour)

Practical application in at least one departmental production activity. Required of freshman and sophomore majors. Open to non-majors. Repeatable to a maximum of six

### DR 201 INTRODUCTION TO THEATRE (3 Hours)

A survey of drama and theater history examining historical practices used in the modern theater. Attendance at theater performances and the reading of the representative plays are required open to all students.

### DR 202 FUNDAMENTALS OF ACTING I (3 Hours)

Basic training in voice, movement, and improvisation to enhance the beginning actor's understanding and artistic growth. Open to all students.

### DR 204 INTRO TO TECHNCL PRODUCTION (3 Hours)

Prerequisite: DR 201, co-requisite: DRL 204.

. An overview of the theory and practices in implementation of set construction and related aspects of technical theatrical production.

### DR 205 ADVANCED ACTING (3 Hours)

Prerequisite: DR 201, 202 and 204.

Study and practice of the art and craft of acting. Selected readings, discussion, laboratory exercises.

### DR 306 INTRO TO SCENIC DESIGN (3 Hours)

Prerequisite: DR 201 and 204.

This course acquaints the student with artistic elements and practical techniques of scene design. Laboratory work consists of several scene designs in different styles. Each design includes ground plans, perspective drawings and frontal evaluations.

### DR 310 DEVLMT OF DRAMATIC ART I (3 Hours)

Prerequisite: DR 201.

The history of the physical theater, drama, and the participants from Egyptian origin of theater ritual through the Greek classical theater to Elizabethan England.

### DR 311 DEV OF DRAMATIC ART II (3 Hours)

Prerequisite: DR 201.

The history of the physical theater, drama, and the participants from Elizabethan England to the development of the modern theater.

### DR 313 SUR OF BLK DRAMA&THEATRE (3 Hours)

Prerequisite: DR 201.

A study of Black drama and theater in America, treating the contributions and involvement of Black artists in the drama and theater in this country from 1553 to the present.

### DR 314 FUNDAMENTALS OF PLAYWRITING (3 Hours)

A lecture-laboratory course in the fundamentals of playwriting.

Laboratory work consists of exercise in exposition, traditional scenes, builds, crisis, resolution, etc. Lectures include script analysis, discussion of certain avant-garde plays and the works of the individual playwright. A scenario will be written.

### DR 356 READERS THEATRE (3 Hours)

A course designed for the oral study of dramatic literature through analysis and group performance.

### DR 410 TECHNIQUES IN DIRECTING (3 Hours)

Prerequisite: DR 201, 310 and 311.

The director's initial approach to the play, research, research, textual study, and formal analysis. Demonstrations and directorial skills in composition, movement, and business.

### DR 414 STAGE LIGHTING DESIGN (3 Hours)

Prerequisite: DR 204.

Work in lighting design plots for different modes of staging. The study of lighting control principles, color theory, and design theory in practical application.

### DR 415 ADVANCED PLAYWRITING (3 Hours)

Prerequisite: DR 314.

A course designed to give the student further experience in concepts and techniques of playwriting. Each student is required to write a one-act play or scenario.

### DR 416 INT TO STAGE MKUP & CSTU (3 Hours)

Discussion of basic elements of design for costumes and make-up. Overview of historical dress and accessories. Practical experience in make-up application. Open to all students.

### DR 419 DRAMATIC CRITICISM (3 Hours)

Prerequisite: DR 310 and 311.

An in-depth study of the principles of dramatic criticism from Aristotle to modern period. Particular reference is given to the influence of the theory of the church, state and press in evaluating drama.

### DR 421 CREATIVE DRAMATICS (3 Hours)

Prerequisite: a lecture-laboratory course acquainting the student with the acting and directing techniques of children's theater.

Emphasis is on improvisational acting. Some attention is devoted to production techniques.

### DR 422 CHILDREN'S THEATRE (3 Hours)

Prerequisite: DR 421.

Study the principles and techniques of acting, and staging for children's theatre. Practical application through laboratory, assignments, and participation in production projects.



**DR 425 PLAY PRODUCTION (6 Hours)**

Prerequisite: Reserved for senior Drama majors only.  
Full directing responsibility for the production of a one-act play or approved activity.

**DR 426 INDEPENDENT STUDY (3 Hours)**

Prerequisite: Drama majors only; requires Coordinator approval and Departmental approval necessary.  
Directed research or project work for the superior student of drama.

## Drama Lab (DRL)

**DRL 204 INTRO TO TECHNICAL PRODUCTION LAB (1 Hour)**

A laboratory course for practical application of theory in DR 204. Technical participation in departmental rehearsals and productions is required.

## Driver's Education (SE)

**SE 311 FIRST AID PREVENTION & C (3 Hours)**

**SE 340 INTRODUCTION TO DRIVER EDUCATION (3 Hours)**  
This course emphasizes techniques and materials that are used in teaching the basic driving skills needed to use the highway systems. (F, Sum)

**SE 410 SAFETY EDUCATION (3 Hours)**

This course involves the study of objectives, policies, procedures, supervisory techniques, and accident prevention techniques. Laboratory assignments are given. (S)

**SE 411 METHODS IN DRIVER EDUCATION (3 Hours)**

Prerequisite: SE 340.  
This course is principally designed for organization, teaching, administration, and supervision of traffic safety programs. The place of simulators is discussed. (F)

## Economics (ECO)

**ECO 202 FOUNDATIONS OF ECONOMIC ISSUES (NON MAJ) (3 Hours)**

Foundations of Economic Issues (for non-business majors) is a survey of various practical economic issues of society. It offers the analysis of contemporary economic problems that arise and exist. The course analyzes everyday practical economic issues such as setting economic priorities in human life, the problems of poverty and inequality, economic functions of the government, the minimum wage debate, problems of universal healthcare, etc. It is designed to offer students the ability to understand and analyze contemporary economic problems that arise and exist, and to be able to apply basic economic thinking for addressing them.

**ECO 204 BLACK ECONOMIC & SOCIAL ISSUES (3 Hours)**

Economic thinking applied to persistent economic problems and issues in a market economy faced through the lens of African-American in the United States. The purpose of this course is to explore different economic perspectives on black-white inequality in the U.S. This course discusses the use of traditional economic tools to understand the effect of historical events and policy on African-American society within the U.S. past, present and future.

**ECO 206 FOUNDATIONS OF GLOBAL ECONOMICS (3 Hours)**

This is an introductory course in Foundations of Global Economics that gives historical perspectives on why nations trade. It focuses on comparative advantage that nations have over each other. The specializations and gains from trade are discussed. The importance of international organizations and the roles they play in both trade and finance are emphasized in the course.

**ECO 211 PRINCIPLES OF MACROECONOMICS (3 Hours)**

This course will provide an overview of macroeconomic issues: the determination of output, employment, unemployment, interest rates, and inflation. Monetary and fiscal policies are discussed, as are the public debt and international economic issues. We introduce basic models of macroeconomics. (F, S, Sum)

**ECO 212 PRINCIPLES OF MICROECONOMICS (3 Hours)**

This course will provide an overview of microeconomic issues: price determination, supply, and demand. Of primary importance are the behavior of individuals/households and firms, and their impact on prices, and the supply and demand for goods and services. We introduce basic models of microeconomics. (F, S, Sum)

**ECO 256 BUSINESS STATISTICS I (3 Hours)**

This course covers basic concepts of statistics, collection and presentation of data, frequency distribution, measures of central tendency and dispersion, elements of probability. (F, S, Sum)

**ECO 311 INTERMEDIATE MACROECONOMICS (3 Hours)**

Prerequisite: ECO 211 and 212.  
This course develops a general equilibrium theory of the economy at the intermediate level. Topics include the aggregate demand and supply model, the IS-LM model, unemployment, international trade, economic growth, and monetary and fiscal policies. We further build upon models introduced in ECO 211. (F)

**ECO 312 INTERMEDIATE MICROECONOMIC THEORY (3 Hours)**

Prerequisite: ECO 211 and 212.  
This class presents microeconomic theory and applications of consumer and producer behavior at an intermediate level. This course focuses on the following topics: basic theory of consumer behavior; production and costs; partial equilibrium analysis of pricing in competitive and monopolistic markets; general equilibrium; welfare economics; and externalities. We further build upon models introduced in ECO 212. (S)

**ECO 325 ECONOMIC DEVELOPMENT (3 Hours)**

Prerequisite: ECO 211 and 212.  
This class introduces both theoretical and empirical approaches to analyzing economic growth and development. Accordingly, the role of labor, capital, and technological progress are investigated. Additionally, cultural/social institutions, income demographics, social/class conflicts, political/economic factors, macro/trade policies, financial sector development, etc., may be covered. In this class, basic growth models will be introduced. (F)

**ECO 356 BUSINESS STATISTICS II (3 Hours)**

Review of methods of estimations and hypothesis testing. Correlation and regression analysis, chi-square tests, analysis of variance, non-parametric concepts, index number, time series analysis, computer statistical packages applied. (F,S,Sum)

**ECO 359 BUSINESS STATISTICS (3 Hours)**

Prerequisite: MATH 111, ECO 211 and 212.

This course covers basic concepts of statistics: methods of describing numerical data; probability in business decisions; random variables; sampling distributions, estimation, and hypothesis testing; and correlation and regression. Use of statistical software is required. (F, S, Sum)

**ECO 360 MATH FOR ECONOMICS AND FINANCE (3 Hours)**

Prerequisite: MATH 221.

This course introduces students to a sample of the mathematical techniques that are used in economics and finance. Additionally, the course is designed to help students acquire the mathematical skills needed to understand the less technical economic and finance literature. In general, it should foster a solid mathematical intuition. (S)

**ECO 416 HIST OF ECONOMIC THOUGHT (3 Hours)**

Prerequisite: ECO 211 and 212.

This course focuses on an historical examination of the development of economic analysis and reasoning. Several schools of thought are examined. These include but are not limited to the following schools of thought: mercantilist, physiocratic, classical, institutionalist, Keynesian, and neo-classical. (F)

**ECO 442 MONEY AND BANKING (3 Hours)**

Prerequisite: ECO 211 and 212.

This course analyzes banking and currency in the United States. Also, the impact of policies regulating banks and non-bank financial institutions are covered. Central to this coverage is a review of the role of the central bank, money supply and demand, monetary policy, and interest rates. Particular attention is paid to the effects these items have on the economy. (F, S)

**ECO 444 PUBLIC ECONOMICS (3 Hours)**

Prerequisite: ECO 211 and 212.

This course examines the role of the public sector in the economy. The aim of the course is to provide an understanding of the reasons for government intervention in the economy, the extent of that intervention, and the response of private agents to the government's actions. (F)

**ECO 446 INTERNATIONAL TRADE (3 Hours)**

Prerequisite: ECO 211 and 212.

This course focuses on determinates of the flow of goods and services across international boundaries or territories. The subject is one of the oldest fields in economics; however, its economic, social, and political importance has been on the rise. With the ongoing debate on globalization, free trade agreements, and the call for a new global financial architecture, interest in the subject should continue to rise. In this course, both basic theories and some current topics will be covered. (S)

**ECO 456 URBAN ECONOMICS (3 Hours)**

Prerequisite: ECO 211 and 212.

This course exposes students to the branch of microeconomics concerned with spatial relationships underlying the formation, the functioning, and development of cities. Cities are currently facing severe challenges, and in this course, urban problems contributing to these problems will be analyzed from an economic perspective. This will lay the foundation for discussions about policy alternatives aimed at addressing these problems. Emphasis is placed on the spatial characteristics of the urban economy as well as on market failures arising from the presence of externalities. (S)

**ECO 460 INTRODUCTION TO ECONOMETRICS (3 Hours)**

Prerequisite: ECO 359.

This course covers the statistical tools needed to understand empirical economic research and to plan and execute independent research projects. Strong emphasis is placed on applications. Mathematical models of economic behavior are tested using various inferential statistical methods. In general, this course should foster a solid mathematical intuition and a fundamental understanding of economic analysis. (S)

## Education Technology (ETEC)

**ETEC 336 ADV MULTIMEDIA IN CLASSROOM (3 Hours)****ETEC 367 INTRO TO ASSMNT MSRMT & EVALTN (3 Hours)****ETEC 434 COMPUTERS IN EDUCATION (3 Hours)****ETEC 439 TOPICS IN EDUCATIONAL TECHNOLO (3 Hours)**

Selected problems in Educational Technology.

**ETEC 496 SPECIAL TOPICS N/EDUC TECHNOLO (3 Hours)**

This course is designed to meet the special needs and interests of students in selected areas of educational technology.

## Electrical Engineering (ECE)

**ECE 101 Introduction to Electrical and Computer Engineering (2 Hours)**

This course gives first year students a survey of the field of the electrical and computer engineering. It describes the different subareas within the electrical and computer engineering field and the analytical tools that will be utilized throughout the curriculum. The course discusses the curriculum, the available technical electives, and professional careers for ECE students.

**ECE 212 DIGITAL LOGIC (3 Hours)**

Prerequisite: MATH 111 or equivalent.

This is an introductory course to digital design. Topics include Digital Systems and Binary numbers. Boolean Algebra and Logic Gates, Gate-Level Minimization, Combinational Logic circuits and Synchronous Sequential Logic circuits.

**ECE 220 CIRCUIT THEORY (3 Hours)**

Prerequisite: PHY 211, Co-requisite: MATH 242.

This course introduces introduction to theory, analysis and design of electric circuits. Voltage, current, power, energy, resistance, capacitance, inductance. Ohm's law, Kirchhoff's laws, nodal and mesh analysis. The venin's and Northon's theorem, Superposition, operational amplifier, steady state in RCL circuits and transient analysis in RL and RC circuits.

**ECE 252 ENGINEERING ANALYSIS (3 Hours)**

Prerequisite: MATH 241.

This course introduces the principles and applications of engineering mathematics, differentiation of functions with multiple variables, coordinate systems, vectors and linear algebra, matrix inversion, complex variable theory, differential equations.

**ECE 312 COMPUTER ORGANIZATION & DESIGN (3 Hours)**

Prerequisite: ECE 212, ECEL 212 and CSC 118.

This course provides an overview of digital logic design. It covers modeling and simulation of basic digital systems using a hardware descriptive language. Topics include behavioral, data flow, and structural modeling.

**ECE 315 SYNTHESIS WITH HARDWARE DL (3 Hours)**

Prerequisite: ECE 212, ECEL 212, CSC 119 and CSCL 119.

This course provides an overview of digital logic design. It covers modeling and stimulation of basic digital systems using a hardware descriptive language. Topics include behavioral behavioral, data flow, and structural modeling.

**ECE 320 CIRCUIT THEORY II (3 Hours)**

Prerequisite: ECE 220, ECE 252 and MATH 368.

This course is a continuation of ECE 220 Circuit Theory I, covering phasor analysis, steady state power, complex network functionsk frequency response, and transformers.

**ECE 330 ELECTRONICS (3 Hours)**

Prerequisite: ECE 220 and ECE 252.

This course introduces fundamental concepts to electronics. Topics include diode, BJT, and FET circuits. It covers frequency response, biasing, current sources and mirrors, small-signal analysis, and design of operational amplifiers.

**ECE 331 ELECTRONICS II (3 Hours)**

Prerequisite: ECE, 330, ECEL 330 and ECE 320.

This course is a continuation of ECE 330 whihc focusing on characteristics and applications of both linear and digital integrated circuits; amplifiers, feedback analysis, frequency response, oscillators, amplifier stabilization, microprocessors, memory systems, and emphasis is on design.

**ECE 335 SEMICONDUCTOR DEVICES (3 Hours)**

Pre-requisites: PHY 212, PHYL 212 and MATH 368. This course applies the fundamentals of semiconductor physics to the understanding of electronic devices. Energy band models, electron and hole concentrations and transplat, p-n junctions, bipolar junction transistors, field effect devices, technology, scaling, and nanotechnology.

**ECE 345 ELECTROMAGNETIC FIELDS (3 Hours)**

Pre-requisites: ECE 220, PHY 212, MATH 368 and MATH 244. This course introduces fundamental cconcepts to electromagnetics. Concepts include Waves and phasors, Transmission lines, vector analysis, electrostatics and magnetostatics. Topics cover gradient, divergence, curl, laplacian, field intensity, charge and current distribution, Coulomb's law, Guess's law, electric and magnetic potential, conductors, dielectrics, capacitors, magnetic force and torques, Biot Savart law, and electric and magnetic boundary conditions.

**ECE 351 SIGNALS AND SYSTEMS (3 Hours)**

Pre-requisites: ECE 220, ECE 252 and MATH 368. This course introduces theoretical analysis of continuous-time signals and systems. Topics include time domain analysis using convolution integral, S-domain analysis using Laplace transform, real frequency domain analysis using Fourier series and Fourier transform, and relationship between time domain and frequency domain description. Topics also include brief introduction of the application of signals and systems in filter design, communications and control systems.

**ECE 355 CONTROL SYSTEMS (3 Hours)**

Pre-requisite: ECE 351. This course introduces fundamental principles of classical feedback control. Topics include using Laplace transform and partial fraction to solve linear ordinary differential equations, impulse response, transfer function, block diagram, signal flow graph and gain formula, state diagram and state variable analysis of linear systems, modeling of physical systems, analysis of stability of linear control systems, time-domain analysis of control systems and root-locus technique.

**ECE 360 EMBEDDED MICROPROCESSOR SYSTEM (3 Hours)**

Prerequisite: ECE 312.

This course covers the architecture, operation, and applications of microprocessors. Topics include microprocessor programming, address decoding, interface to memory, interfacing to parallel and serial input/output, interrupts, and direct memory access. Course project is to design, build, and program a simple microprocessor-based system.

**ECE 412 COMPUTER ARCHITECTURE (3 Hours)**

Prerequisite: ECE 312.

This course covers computer architecture design issues. Topics include organization of CPU, processor systems design, computer arithmetic, memory system organization and architecture, interfacing and communication, performance, and multiprocessing.

**ECE 430 DIGITAL VLSI DESIGN (3 Hours)**

Prerequisite: . ECE 212, ECEL 212, ECE 330 and ECEL 330. This course introduces principles of the design and layout of Very Large Scale Integrated (VLSI) circuits with concentrations on the Complementary Metal-Oxide-Semiconductor (CMOS) technology. Topics include MOS transistor theory and CMOS technology, characterization and performance estimation of CMOS gates. Course projects involve layout designs and simulations using computer-aided design tools.

**ECE 431 Digital System Testing and Design for Testability (3 Hours)**

Prerequisite: ECE 330 and ECE 212

This course introduces fundamental techniques for detecting defects in VLSI circuits. Topics include fault models, fault detection, and schemes for designing systems to be easily testable and with self-test capability.

**ECE 435 POWER ELECTRONICS (3 Hours)**

Prerequisite: ECE 331.

This course introduces students to Switch-mode power electronics. Topics include Switch-mode DC power supplies and Switch-mode converters for DC and AC motor drives, wind/photovoltaic inverters, and interfacing power electronics equipment with utility system, power semiconductor devices, magnetic design, and electro-magnetic interference.

**ECE 440 COMMUNICATION SYSTEMS (3 Hours)**

Prerequisite: MATH 243 and MATH 307.

This course introduces students to analog and digital modulation techniques. Topics include random processes, power spectral density, effects of nosie on, and bandwidth requirements of, different modulation schemes.

**ECE 441 COMPUTER NETWORKS (3 Hours)**

Prerequisite: ECE 312 and ECE 351.

This course introduces students to network protocols and network architectures. Topics include characteristics and principles related to Wide Area Network(WAN), and network devices and their relationship with network protocols and architectures. It also provides methods for characterizing and analyzing communications systems performance.

**ECE 451 DIGITAL SIGNAL PROCESSING (3 Hours)**

Pre-requisite: ECE 351. This course introduces theoretical analysis of discrete-time signals and systems. Topics include sampling continuous-time signals and reconstructions of continuous-time signals from samples: z-transforms; signal flow graphs; spectral analysis of signals and systems using Fourier series and Fourier transform: the discrete Fourier transform; the fast Fourier transform algorithm; finite and infinite impulse response (FIR/IIR) filter design techniques, and applications in digital control systems and digital communications.

**ECE 480 POWER SYSTEM ANALYSIS (3 Hours)**

Pre-requisite: ECE 320. This course introduces students to AC power systems. Topics include large power system networks, mathematics and techniques of power flow analysis, transient stability analysis, and use of power system simulation program.

**ECE 481 ELECTRIC MACHINES (3 Hours)**

Pre-requisites: ECE 320. This course introduces students to the principles and applications of electric machines. Topics include integrated discussion of DC motors, transformers, and AC machines. Application include electric transportation, process control, and energy conservation.

**ECE 490 SENIOR DESIGN PROJECTS I (3 Hours)**

Prerequisites: ECE 330 and ECE 360. This course is based on group design projects. Students work in teams to develop proposals for their selected projects. Topics include engineering professionalism, ethics, design methodology, project management, development of specifications, and evaluation of alternatives. Students make oral presentation and submit written reports on their proposed projects.

**ECE 491 SENIOR DESIGN PROJECTS II (3 Hours)**

Prerequisite: ECE 490.

In this course students complete the design projects proposed in ECE 490-Senior Design Projects I. Students perform the design synthesis, analysis, construction, testing, and evaluation of their team projects. Topics include engineering professionalism, ethics, and safety. Students make oral presentation and submit final reports documenting their results.

**ECE 492 SPCL STDS N ELEC & COMPU ENGIN (1-4 Hours)**

Prerequisite: Junior/Senior standing in Electrical and Computer Engineering and consent of Chair.

Special Studies in Electrical and Computer Engineering. This course is based on individual projects and problems selected by instructors and individual students. It is open to junior/seniors in Electrical and Computer Engineering only. No more than four credit hours of ECE 492 can be applied toward the degree.

**ECE 493 SPCL TPCS N ELECTRL & COMPU EN (1-4 Hours)**

Prerequisite: Junior/Senior standing in Electrical and Computer Engineering and consent of Chair.

Special Topics in Electrical and Computer Engineering. This course includes lectures on recent topics of special interests to students in various areas of Electrical and Computer Engineering. It is designed to test new experimental courses in Electrical and Computer Engineering. No more than four credits of ECE 439 can be applied toward the degree.

## Electrical Engineering Lab (ECEL)

**ECEL 212 DIGITAL LOGIC LABORATORY (1 Hour)**

Co-requisite: ECE 212. This laboratory course enables students to validate the major concepts covered in ECE 212, digital Logic.

**ECEL 220 CIRCUITS LABORATORY (1 Hour)**

Co-requisite: ECE 220. This laboratory enables students to validate the major concepts covered in ECE 220, Circuit Theory. Experiments include OHM's law, node voltage analysis, RC circuits, and RL circuits.

**ECEL 330 ELECTRONICS LABORATORY (1 Hour)**

Co-requisite: ECE 330. This laboratory course includes experiments that validate the concepts covered in ECE 330--Electronics.

**ECEL 331 ELECTRONICS II LABORATORY (1 Hour)**

Co-requisite: ECE 331. This laboratory course includes experiments that validate the concepts covered in ECE 331, Electronics II. Experiments include amplifiers, feedback analysis, and oscillators.

**ECEL 360 MICROPROCESSOR LABORATORY (1 Hour)**

Co-requisite: ECE 360. This laboratory courses enables students to validate the major concepts covered in ECE 360-Embedded Microprocessor Systems. Experiments include building and/or interfacing a microprocessor system.

## Emergency Management Tech (ITEM)

**ITEM 301 PRINCIPLES OF EMERGENCY MNGT (3 Hours)**

The course introduces basic theory of emergency management. It identifies the roles of federal, state, local government, and community in case of emergency. The course also discusses disaster prevention, mitigation, recovery, technology support, and litigation issues.

**ITEM 302 INTRO TO INCIDENT COMMAND SYS (3 Hours)**

This course covers the emergency management practices used by responders during an emergency. The structure and responsibilities of the Incident Command System, the management of facilities, and typing of resources are covered in this class. The National Incident Management System (NIMS) principles are also included in this course.

**ITEM 303 COMMUNITY EMERGENCY RESPN TEAM (3 Hours)**

This course provides students with the skills required by Federal Emergency Management Agency (FEMA) to serve as a Community (Citizen) Emergency Response Team (CERT) member within their society. Students will also be required to complete Community Emergency Response Team training, which will provide them with basic skills needed for immediate response in the aftermath of disasters. By working 391 together, CERT members can assist in saving lives and protecting property by using the basic techniques learned from this course.

**ITEM 304 INTERNSHIPS (3 Hours)**

Prerequisite: ITEM 301, 302, or approval by instructor.

The internship is designed primarily for students who have had little exposure to the field of emergency management. Students will file their placement (with the assistance and approval of the instructor) at national laboratories or DHS's funded COE laboratories to gain hands-on practical experience with a public, private, or nonprofit organization that has significant emergency management responsibilities.

**ITEM 311 INTRODUCTION TO NUCLEAR TECH (3 Hours)**

This course introduces the students to the fundamental principles of nuclear technology. The topics include nuclear radiology, nuclear power, nuclear safety, radiation protection, radiation detection, nuclear health, and nuclear waste management.

**ITEM 401 APP OF EMRGNCY MNGT CMPTR TEC (3 Hours)**

The purpose of this course is to develop an in-depth understanding and practical knowledge of the most frequently used software such as WISER, HAZUS, and CAMEO, which were designed by Federal Government agencies. This course will enable students to effectively use a computer in an emergency. The students can apply this skill to analyze, predict, and prevent an emergency incident.

**ITEM 402 BASIC GEOG INFO SYS REMOTE SEN (3 Hours)**

This course introduces the theory and techniques of Geographic Information System (GIS) and remote sensing and their application to environmental analysis. Topics include the concepts of remote sensing, characteristics of spectromagnetic waves, types of remotely sensed data, sensor types, the theory of photogram metric techniques, and digital image analysis for acquisition of geographical information. Several lab activities involve the following learning the basics of ERDAS imagine, data acquisition through internet search for satellite images, importing datasets, band characteristics, and visual presentation.

**ITEM 403 DISASTER MANAGEMENT (3 Hours)**

The course explores important functions to be performed before, during, and after disaster strikes. It also identifies the strategies, tools, challenges, and concerns relevant to the emergency manager and others involved in disaster management. The theoretical basis of emergency management will be the central focus of the course, but practical knowledge, skills and abilities relating to planning will also be addressed throughout the semester. Students are expected to think critically about controversial issues and policies pertaining to the emergency and disaster arenas.

**ITEM 404 SPECIAL PROJECT (3 Hours)**

This course includes the following emergency management concepts: program planning and management, financial planning, and management, managing information, managing people and time, personality types, leadership styles, followership styles, decision-making skills, team-building skills and group dynamics, community-building skills, intergovernmental relationships, negotiating skills, communication skills, emergency management ethics, and professionalism.

**ITEM 407 TECHNOLOGY IN EMERGENCY RESPONSE AND MANAGEMENT (3 Hours)**

Prerequisite: Junior or Senior Standing

This course aims to increase and improve the knowledge of students in emerging technology. This course focuses on the rapidly advancing technology in data analytics, Internet of Things (IoT), artificial intelligence and machine learning, drones, and its applications, Hazus-Multi-Hazards, and virtual reality. This course includes six modules and laboratory exercises.

## English (ENG)

**ENG 001 DEVELOPMENTAL ENGLISH (3 Hours)**

This course is designed to give intensive practice in the fundamental of grammar usage, sentence structure, mechanics and diction.

**ENG 003 INTEGRATED INTERMEDIATE ENGLISH (3 Hours)****ENG 100 Intermediate English (3 Hours)**

Intermediate English is designed to engage the student with intensive practice in the fundamentals of grammar usage, sentence structure, mechanics and diction, along with the essentials of English writing and grammar. Emphasis will be placed on the various writing styles and techniques, focusing on paragraph structure and advancing to the fundamentals of essay structure. Focus is mainly placed on paragraph writing/mastery that will collectively infuse interdisciplinary, collaborative learning, provide exposure to basic research development, and practice standard forms of writing to encourage an intelligent expression of ideas through prewriting (including brainstorming, outlining, and gathering information).

**ENG 103 English Composition I with Co-requisite Support (3 Hours)**

Prerequisite: Students who earned less than 17 on the ACT or the corresponding score on the SAT in English.

English Composition I with Co-requisite Support is an accelerated course designed to engage the student in the essentials of English writing and grammar through the Intermediate English refresher followed by the credit-bearing college-level Freshman Composition I course. Emphasis will be placed on the various writing styles and techniques, beginning with paragraph structure and writing to the fundamentals of essay structure. English Composition I with Co-requisite Support will progress with the writing-intensive Freshman Composition I, which will strive to collectively infuse interdisciplinary, collaborative learning, and provide exposure to research development, practice standard forms of essay development to encourage an intelligent expression of ideas through prewriting (including, brainstorming, outlining, and gathering information). Emphasis will be placed on drafting, revision, peer review, editing, and the final draft. Ultimately, English Composition I with Co-requisite Support will help students improve writing skills, prepare for oral discussions and develop well-written papers. The course will also enhance the students' appreciation of the variety of writing styles and themes available to hone the student's ability to write clearly and effectively.

**ENG 104 COMPOSITION I (3 Hours)**

This course is the first part of the two-semester freshman composition program and is designed to give intensive study and practice in writing themes. Emphasis is placed on grammar and mechanics, the sentence, the paragraph, and the essay.

**ENG 105 COMPOSITION II (3 Hours)**

Prerequisite: ENG 104.

ENG 105 is a continuation of ENG 104 with emphasis on critical thinking and writing essays; writing the research paper, business letters, and resumes.

**ENG 111 COMPOSITION & LITERATURE FOR L (3 Hours)**

An intensive course in the principles of rhetoric and composition with emphasis on the structure, organization and style of the various types of discourse: exposition, description, narration, and argumentation.

**ENG 112 COMPOSITION (3 Hours)**

Prerequisite: ENG 111.

A continuation of ENG 111, with emphasis on the styles and types of writing reflected in literary genres.

**ENG 120 Social and Environmental Activism in Film (3 Hours)**

ENG 120 is a 3-hour credit course. Students taking this course will analyze, compare, and contrast matters of global concern in the areas of social and environmental justice. These films represent the biases and technologies of various eras in filmmaking, from the Silent Era through the "Talkies," the Golden Age of Hollywood and modern filmmaking. Film genres could include action-adventure, silent, Western, documentary, science fiction, comedy, adventure, drama, musical, war, film noir, historic, Black cinema, romance, dystopia, blaxploitation, suspense, horror and international cinemas. All of these films will be selected for social and environmental content. Seven to nine films will be covered each semester. These films will be watched by students on their own through available media. The class will foster group discussions and debate. Papers and presentations will be required.

**ENG 201 Expressions in Blackness-Humanities and the African Diaspora (3 Hours)**

The purpose of this course is to explore the humanities (philosophy, history, politics, education, and various forms of artistic expression such as paintings, sculpture, music, literature, etc.) from the Black perspective and the influence of the African Diaspora. While exploring these modes of human expression through the Black experience, this course will also examine the influence of popular culture and social media on the Humanities, Black culture, and Black identity.

**ENG 202 Expressions in Blackness-Humanities and the African Diaspora II (3 Hours)**

Prerequisite: ENG 103/104/111 and ENG 105/112.

This course is the second part of Humanities and will continue to explore the ways and means of human expression through the twentieth century and into the twenty-first century and will begin with a summary of key information from English 201/211 before it picks up chronologically where English 201/211 ended. The purpose of this course is to explore the humanities (philosophy, history, politics, education, and various forms of artistic expression such as paintings, sculpture, music, literature, etc.) from the Black perspective and the influence of the African Diaspora. While exploring these modes of human expression through the Black experience, this course will also examine the influence of popular culture and social media on the Humanities, Black culture, and Black identity.

**ENG 205 WORLD LITERATURE I (3 Hours)**

Prerequisite: ENG 104, 105, or ENG 111, 112.

A one-semester survey of classical literary masterpieces representative of the Ancient, Medieval, and Renaissance and Modern Periods. The course will assist the student in reading literary works with increased perceptiveness and understanding of the complex resources available to the imaginative writer for the representation of human experience and reality.

**ENG 206 LITERATURE OF SCIENCE I (3 Hours)**

A one-semester survey of literature by scientists or about science which conveys scientific and literary values.

**ENG 207 LITERATURE OF SCIENCE II (3 Hours)**

A continuation of Literature of Science I, which surveys additional works by scientists or about science having both literary and scientific value. A unit on the relationships between mathematics and the arts will be included.

**ENG 211 Expressions in Blackness-Humanities and the African Diaspora (3 Hours)**

The purpose of this course is to explore the humanities (philosophy, history, politics, education, and various forms of artistic expression such as paintings, sculpture, music, literature, etc.) from the Black perspective and the influence of the African Diaspora. While exploring these modes of human expression through the Black experience, this course will also examine the influence of popular culture and social media on the Humanities, Black culture, and Black identity.

**ENG 212 Expressions in Blackness-Humanities and the African Diaspora II (3 Hours)**

Prerequisite: ENG 103/104/111 and ENG 105/112.

This course is the second part of Humanities and will continue to explore the ways and means of human expression through the twentieth century and into the twenty-first century and will begin with a summary of key information from English 201/211 before it picks up chronologically where English 201/211 ended. The purpose of this course is to explore the humanities (philosophy, history, politics, education, and various forms of artistic expression such as paintings, sculpture, music, literature, etc.) from the Black perspective and the influence of the African Diaspora. While exploring these modes of human expression through the Black experience, this course will also examine the influence of popular culture and social media on the Humanities, Black culture, and Black identity.

**ENG 213 PROFESSIONAL WRITING (3 Hours)**

A course designed for those students of varied academic backgrounds and occupational interests whose jobs or careers will, or already do, require specific writing skills. Since many of the types of writing are not taught in basic composition courses, this course offers students opportunities to enhance these particular skills, thereby providing them with on the job experience that would not ordinarily be gained in regular composition courses offered at Jackson State University.

**ENG 216 SUR OF THE ELMT OF FICTN (3 Hours)**

A one semester course dealing with the elements of fiction with specific emphasis on the analysis of the elements.

**ENG 217 Global Language and Social Justice (3 Hours)**

This course underscores how linguistic superiority and assimilationist are rooted in racism. Students will interrogate these practices and critique conversations surrounding language and social justice via articles, podcasts, and videos. Armed with this knowledge, students will learn to become advocates for social justice in social spaces contributing to dismantling language bias.

**ENG 218 ADVANCE COMPOSITION (3 Hours)**

This course is designed to help students master the basic forms of writing appropriate to each level of discourse.

**ENG 219 CLASSICAL MYTHOLOGY (3 Hours)**

A course designed to gain knowledge of Greek and Roman myths and what they symbolize in the contemporary world.

**ENG 222 WORLD LITERATURE II (3 Hours)**

A one-semester survey of literary masterpieces representative of the Enlightenment, Romantic, Realist, and Modernist traditions. The course is designed to serve as a direct although optional continuation of ENG 205.

**ENG 228 WORD POWER (3 Hours)**

Building English vocabulary from a knowledge of Latin and Greek roots.

**ENG 230 Survey of Urban Literature (3 Hours)**

Survey of Urban Literature is a one-semester course that analyzes contemporary literary selections representative of modern life in cities, their suburbs and neighboring communities. This class will highlight the relationships between urban dwellings and the writings produced in and about them.

**ENG 295 Introduction to Literary Studies (3 Hours)**

Introduction to Literary Studies is a required course designed to introduce the beginning major to the characteristics of literary genres, the components of literature, essential critical terms and basic literary theory. The course covers materials, methods, and terminology used in the discipline of literary studies.

**ENG 300 Introduction to Creative Writing (3 Hours)**

A laboratory of imaginative writing emphasizing composition for students interested and talented in creative writing.

**ENG 303 GRAMMAR & COMPOSITION (3 Hours)**

A study of the structural, functional, and rhetorical aspects of composition. Linguistic concepts will be discussed. Articles on applied linguistics will be reviewed, and language will be presented from an objective structural point of view.

**ENG 304 FUNDAMENTALS OF POETRY (3 Hours)**

Prerequisite: ENG 300

This course is designed to provide a thorough introduction to various received forms of poetry, including griot court poetry, epic, lyric, ballad, ghazal, quatrain, tanka, sestina, courtly love poem, sonnet, narrative, haiku, villanelle, and kwansaba. Additionally, this course will consider the emergence and practice of free verse. Students will also learn defining qualities of traditional genres of poetry, such as narrative, lyric, and satirical, and will explore subgenres, such as elegy, ode, palinode, ekphrastic, concrete (visual), acrostic, and occasional poetry. The goal is to provide students with a wealth of resources to enable them to expand and hone their voices with a multitude of tools and with the knowledge of their own moment in the ongoing conversation that we call literature, ending with a portfolio of original poems.

**ENG 306 FUNDAMENTALS OF FICTION (3 Hours)**

This course explores the fundamentals of fiction writing, focusing on aspects of the story such as exposition, characterization, setting, dialogue, and point of view. Students will gain a greater understanding of the process of fiction writing through the study of short stories by writers such as James Baldwin, Flannery O'Connor, and James Joyce. Students will complete short writing exercises and participate in workshop sessions. They will produce complete short works and go through the revision process. Pre-requisite: ENG 300

**ENG 310 PEER TUTORING IN A GLOBAL CONTEXT (1 Hour)**

This course is an experiential-learning colloquium that prepares students to work as peer tutors in a writing center. It will introduce students to the writing process on theoretical and practical levels, and to the theoretical and practical components of writing/speaking center work. Specific topics will include the role of the peer tutor, the rhetorical situation, types of academic writing and speaking, global perspectives, and approaches to talking about the various stages of developing papers and presentations for global audiences.

**ENG 311 ISSUES IN TUTORING WRITING (1 Hour)**

This course examines the theoretical and practical components of writing/speaking center work, paying particular attention to their reflexive nature, that is, to the ways in which theories of collaborative learning challenge and extend practice and the ways in which practice interrogates and shapes theory. The course will also introduce peer tutors to aspects of RWC administration, particularly the task of assessing their individual effectiveness and the effectiveness of RWC on the JSU campus. Areas of focus will change each semester.

**ENG 315 WOMEN IN LITERATURE (3 Hours)**

Women in Literature is a study of various portraits and delineations in literature showing both problems and progress of women. Male and female authors will be studied with particular emphasis given to a study of works by female writers. The course is multi-ethnic and multi-cultural in its approach. It is open to all students as an elective.

**ENG 316 ADOLESCENT & YOUNG ADULT LIT (3 Hours)**

The course is designed to give students an overview of books and related materials suitable for adolescent and young adult readers. This course will investigate various issues in adolescent and young adult literature theory, teaching resources, and effective pedagogy.

**ENG 319 SURVEY OF ENG LITERATURE (3 Hours)**

A two-semester course designed to acquaint the student with the masterpieces of English Literature and with the various intellectual and literary movements (ENG 319; Beowulf to Pope; ENG 320; Johnson to contemporary writers).

**ENG 320 SURVEY OF ENGLISH LITERATURE (3 Hours)**

A two-semester course designed to acquaint the student with the masterpieces of English Literature and with the various intellectual and literary movements (ENG 319; Beowulf to Pope; ENG 320; Johnson to contemporary writers).

**ENG 321 SURVEY OF AMERICAN LITERATURE (3 Hours)**

Prerequisite: ENG 205, English Option.

A general survey of American Literature and the Literary and intellectual movements from Colonial days to the Civil War. Writers from Smith to Whitman are studied.

**ENG 322 SUR OF RECENT AMER LITER (3 Hours)**

A survey of American Literature from the Civil War to the present.

**ENG 325 THE BLACK IMAGE IN THE MEDIA (3 Hours)**

The media is a powerful source in society. It has been a significant conveyor of information for centuries. How we receive and contextualize this information has impacted the ways in which we interact with one another on a micro-level and how we fare in society on a much larger scale. Because of its significance, it is important to study the impact the media has in creating and disseminating images of people. For the purposes of this class, we will consider the image of the African American.

**ENG 331 INTROD TO LINGUISTICS (3 Hours)**

An introduction to major linguistic theories, including the transformational-generative theory. Illustrations will be drawn from modern languages with their phonological, syntactic, and semantic components.

**ENG 332 THE ENGLISH LANGUAGE (3 Hours)**

The origins and development of the English language, with stress on the problem of change. The relationship of English orthography to pronunciation will be discussed.

**ENG 336 CREATIVE WRITING (3 Hours)**

A laboratory of imaginative writing emphasizing composition for students interested and talented in creative writing. Hours and credits to be arranged by instructor.

**ENG 351 ELEMENTS OF NONFICTION (3 Hours)**

Prerequisite: ENG 300.

This course focuses on the history and aesthetics of nonfiction writing. Students will read various sub-genres of nonfiction such as literary criticism and analysis, opinion journalism, and creative nonfiction. Students will produce original pastiches of each form, practicing style, structure, narration, scene, dialogue, and voice. There is also dedicated focus on the analysis of original student nonfiction. Students will participate in peer review and workshop.

**ENG 399 FUNCTIONAL WRITING (3 Hours)**

This course is designed to help the student gain proficiency in thinking logically, writing intelligently and effectively. (For students who are not successful on the English Proficiency Examination.)

**ENG 400 ENGLISH PROFICIENCY EXAMINATION (0 Hours)****ENG 401 LANGUAGE ARTS IN ELEMENTARY SCHOOL (3 Hours)**

All phases of an effective language arts program in the elementary school curriculum are examined.

**ENG 402 LANGUAGE ARTS IN SECONDARY SCHOOLS (3 Hours)**

This course examines exploratory and systematic approaches to teaching the language arts in the high school in order to give prospective teachers alternate approaches to teaching language arts.

**ENG 404 RICHARD WRIGHT: 20TH CENTURY PROSE (3 Hours)**

A study of the major works of Richard Wright, his career as a bridge between the Harlem Renaissance and the Black Arts Movement, and as a major figure in literary criticism and art as protest.

**ENG 405 MARGARET WALKER: FICTION & POET (3 Hours)**

A study of the major works of Margaret Walker, her career as a bridge between the Harlem Renaissance and the Black Arts Movement, and as a major figure in literary criticism, humanism, and feminism.

**ENG 407 FORMS OF POETRY (3 Hours)**

Prerequisite: ENG 300 and 304

This course builds from the objectives learned in ENG 304 Fundamentals of Poetry and provides students the workshops and feedback needed to develop their mastery of form and to develop their unique voices into publishable poems. As such, this course will focus on learning to write for particular audiences and understanding that each audience represents a particular aesthetic ideal whether that is an academic audience, mass popular, slam/spoken word, and grassroots/community. Finally, the goal will be to produce a manuscript of poems that can be submitted individually or collectively to journals, contests, agents, and publishing houses.

**ENG 408 FORMS OF FICTION (3 Hours)**

This course will build on the skills learned in Fundamentals of Fiction Writing. Students will continue to practice the elements of the fiction story, but will expand their knowledge of various types of stories such as fables, epistolary stories, flash fiction, and framed stories, etc. and the decisions involved in determine the best format for their story. Through workshops and assignments, students will work on producing a novella or chapbook of short stories as a final project for the class. This class will also explore the procedures involved in the publication process. Prerequisite: ENG 300 and ENG 306

**ENG 415 THE ENGLISH NOVEL (3 Hours)**

The development of the novel from the works of Richardson to the present.

**ENG 416 THE NOVEL (3 Hours)**

Puritan, Romantic, Naturalistic, and Realistic traditions in the American novel from its origin to the present.

**ENG 418 SURVEY OF BLACK WRITERS (3 Hours)**

A two-semester course that treats selected works by African American authors.

**ENG 419 SURVEY OF BLACK AUTHORS (3 Hours)**

A two-semester course that treats selected works by African American authors.

**ENG 421 CHAUCER (3 Hours)**

This course centers on Chaucer's Literary achievement and merit and on treatment of the Prologue to the Canterbury Tales, selected Tales, and selections from his shorter works.

**ENG 422 SEMINAR REnaissance LITERATURE (3 Hours)**

English Literature from 1500 to 1649, excluding the works of Shakespeare and Milton.

**ENG 423 SHAKESPEARE (COMEDIES) (3 Hours)**

A study of the major comedies, histories, and tragedies. Tragedies and comedies alternate per semester. Comedies—Summer; Tragedies—Fall. Students can earn a total of six

**ENG 424 MILTON (3 Hours)**

The major poetry and selected prose within the context of the historical and literary background of the period.

**ENG 426 ENGLISH ROMANTICS (3 Hours)**

Primarily the works of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats as they express the literary trends of the age.

**ENG 428 VICTORIAN LITERATURE (3 Hours)**

An intensive survey of literature of the period, especially of the poets and essayists.

**ENG 429 TRAGEDIES OF SHAKESPEARE (3 Hours)**

Study of the major tragedies, including historical tragedies of Shakespeare. Tragedies and comedies alternate per session: Comedies—Summer; Tragedies—Fall. Students can earn a total of six (6) hours of credit. (See ENG 423.)

**ENG 431 MODERN AND CONTEMPORARY WORLD LIT (3 Hours)**

The study of worldwide literature and literary trends in relationship to social aspects of today's world.

**ENG 433 AMERICAN DRAMA (3 Hours)**

The development of American theatrical writing since the First World War.

**ENG 434 20TH CENTURY AMERICAN FICTION (3 Hours)**

Major writers of the period.

**ENG 435 TWENTIETH-CENTURY AMERICAN POETRY (3 Hours)**

The study of contemporary American poets.

**ENG 436 LITERARY CRITICISM (3 Hours)**

The study of basic principles of literary evaluation in the light of major critical theories from Plato to Deconstruction.

**ENG 440 INDEPENDENT STUDY (1-6 Hours)**

Intense reading and writing of a long investigative paper in a specific area of American or English Literature under the direction of a specialist in that area, by permission of department head.

**ENG 452 COMPARATIVE LITERATURE (3 Hours)**

Comparative studies of great authors, genres, and periods.

**ENG 495 SENIOR SEMINAR IN ENGLISH (3 Hours)**

A research course designed to have majors think through what they have learned in their discipline, to share their knowledge with one another and the faculty, and to expand their knowledge of the field both in depth and breadth.

**ENG 496 CREATIVE WRITING CAPSTONE (3 Hours)**

Prerequisite: ENG 404 and ENG 405

Students will apply the knowledge gained through the creative writing curriculum to create a culminating project consisting of three major parts: 1) a creative core (fiction, creative nonfiction, poetry, or drama); 2) a researched analysis essay that discusses the student's process of selecting the social justice issue and how it manifests in the creative core. The reflective essay should also discuss the student's future writing goals and aspirations. The student will select an appropriate capstone advisor to work closely with to guide the project.

## English as a second language (ESL)

**ESL 201 READING AND WRITTEN APPLICATION (0 Hours)****ESL 202 READING AND WRITTEN APPLICATION (0 Hours)**



**ESL 203 ENGLISH COMMUNICATIONS (0 Hours)**

**ESL 204 ENGLISH COMMUNICATIONS (0 Hours)**

**ESL 205 ESSENTIAL WRITING (0 Hours)**

**ESL 206 ESSENTIAL WRITING (0 Hours)**

**ESL 207 ENGLISH GRAMMAR (0 Hours)**

**ESL 208 ENGLISH GRAMMAR (0 Hours)**

**ESL 301 READING AND WRITTEN APPLICATIO (0 Hours)**

**ESL 302 READING AND WRITTEN APPLICATIO (0 Hours)**

**ESL 303 ENGLISH COMMUNICATIONS (0 Hours)**

**ESL 304 ENGLISH COMMUNICATIONS (0 Hours)**

**ESL 305 EFFECTIVE WRITING (0 Hours)**

**ESL 306 EFFECTIVE WRITING (0 Hours)**

**ESL 307 ENGLISH GRAMMAR (0 Hours)**

**ESL 308 ENGLISH GRAMMAR (0 Hours)**

**ESL 401 READING AND WRITTEN APPLICATIO (0 Hours)**

**ESL 402 READING AND WRITTEN APPLICATIO (0 Hours)**

**ESL 403 ENGLISH COMMUNICATIONS (0 Hours)**

**ESL 404 ENGLISH COMMUNICATIONS (0 Hours)**

**ESL 405 ACADEMIC WRITING (0 Hours)**

**ESL 407 ENGLISH GRAMMAR (0 Hours)**

**ESL 408 ENGLISH GRAMMAR (0 Hours)**

**ESL 409 iBT-TOEFL READING (0 Hours)**

**ESL 410 iBT-TOEFL LISTENING (0 Hours)**

**ESL 411 iBT-TOEFL SPEAKING (0 Hours)**

**ESL 412 iBT-TOEFL WRITING (0 Hours)**

## Entrepreneurship Studies (ENTR)

**ENTR 285 CREATIVITY, INNOVATION & ENTRE (3 Hours)**

An introductory course designed to familiarize the students with the world of small business and entrepreneurship by exploring the foundational concepts of creativity and innovation. Attention is given to leveraging intellectual capital by enhancing innate creativity and support the generation of creative and innovative ideas while, at the same time including an overview of the other aspects of the entrepreneurial process such as opportunity recognition, entrepreneurial marketing, practical use of financial statements analysis of small business and small business financing.

**ENTR 300 FINANCE SMALL BUS & ENTRE VENT (3 Hours)**

Finance for Small Businesses and Entrepreneurial Ventures takes a three-pronged stage-sensitive approach to introduce financial thinking, tools, and techniques adapted to the realm of entrepreneurship and small business ownership. The course emphasizes the differences between large corporations and Small & Medium Enterprises (SMEs) relative to funding, risk assessment, and management. Topics include introduction to financial tools, financial markets, and instruments, and management of short term assets and liabilities.

**ENTR 382 APPLD INFO SYSMS FOR ENTR & SB (3 Hours)**

Applied Information Systems for Entrepreneurs and Small Businesses (3). Success as an entrepreneur or small business owner depends on the availability of relevant, accurate, and timely information. This course teaches fundamental business planning and accounting concepts while developing skills to implement a cloud-based, technology enabled small business accounting system.

**ENTR 384 INTERSHIP & APPRENTSHIP N ENTR (3 Hours)**

A work experience in an operating business where the student, under academic and firm management supervision, participates in actual managerial functions (40 work hours per semester credit hour) Student must keep executive diary of work experiences and submit frequent reports to academic supervisor. All internships practica, and other external learning experiences are supervised by JSU faculty (?), who also assign grades in the courses. Credit, 3 semester hours. PREREQ: Written proposal and consent of Internship Coordinator, Department Chair, and JSU Faculty member.

**ENTR 385 Marketing for Entrepreneurs and Small Businesses (3 Hours)**

Prerequisite: BIZ 201 and ENTR 285 This course focuses on the application of marketing principles and practices in entrepreneurial and small business contexts.

Using marketing research methods, students will develop a marketing plan for a proposed or existing business concept. Topics include opportunity analysis, strategy and marketing mix development, and business model creation including franchising and acquisition.

**ENTR 460 Managing Technological and Creative Art Innovations (3 Hours)**

Prerequisite: BIZ 201 and ENTR 285 An experiential learning class that focuses on creating streams of new products or services in established and new firms by leveraging science and technology.

This class is well suited for students whose entrepreneurial venture is in science, engineering, mass communication, history, arts, music, etc. This course will address topics and problems related to new ventures in the technology and art industry, with emphasis on distribution, publishing, performance and intellectual property rights, agents, personal managers, and contracts. Students will be required to develop an entrepreneurial initiative for this course.

**ENTR 470 Managing Urban, Social and Non-Profit E Ventures (3 Hours)**

Prerequisite: BIZ 201 and ENTR 285 An experiential learning class that explores entrepreneurship as a mechanism for urban and social change through economic development and community wealth creation. This course examines organizational approaches (for-profit and nonprofit) that emphasizes both urban and social mission and effectiveness. Students learn how to recognize social impact opportunities, how to reconfigure products and services for underserved markets, and how to develop urban or social enterprise models that are sustainable and scalable. Students will be required to develop a urban, social or non-profit entrepreneurial initiative for this course.

**ENTR 485 VENTURE CREATION (3 Hours)**

This course is designed to prepare the entrepreneurship student for the role of practicing entrepreneur by providing meaningful experiences to simulate the process of starting a firm. The course combines theory with practice by giving the student the opportunity to launch the business plan which has been developed in previous course work and within the constraints of a classroom let the student experience the many problems and unexpected outcomes that accompany let the student experience the many problems and unexpected outcomes that accompany successful firm creation. The Lean Launch Pad approach as adopted in the Stanford University Technology Ventures I-corp program will be taught in phase I. The customer discovery process will be used to develop strategies in marketing, finance human resource management and strategic planning.

**ENTR 486 VENTURE CREATION II (3 Hours)**

This course is designed as a continuation of ENTR 485 to prepare the entrepreneurship student for the role of practicing entrepreneur. The development of the enterprise begun in 485 will continue to a more advanced level and ideally lead to early stage launch depending upon the data gathered and analyzed in the previous course. A recommended course of action and implementation plan is expected with data driven justification and resource allocation decisions designed to provide satisfactory investor outcomes.

**ENTR 487 FAMILY BUSINESS MANAGEMENT (3 Hours)**

Prerequisite: ENTR 382 and Junior standing.

This course will explore the unique challenges and opportunities present in managing a family business. Topics will include: the decision to join the family firm, establishing credibility as a son or daughter, the stages of family business growth, strategic planning in the family firm, dealing with non-family managers, and succession. (S)

## Finance (FIN)

**FIN 220 FOUNDTNS OF FINANCE (NON MAJOR) (3 Hours)**

This course provides students with a concise yet comprehensive survey approach to Finance. The course, intended for non-business majors, introduces the three main areas of finance: markets and financing instruments, investments, and financial management. Topics include banks and financial institutions, interest rate and the saving process, time value of money, introduction to bonds and stocks, characterizing risk and return, etc.

**FIN 247 FOUNDTNS OF STOCK MKT INVESTNG (3 Hours)**

A concise yet comprehensive survey approach that provides students with the opportunity to understand what stock market investing is about. The course introduces the three main areas of stock market investing: building a core portfolio, maintaining stocks to watch, using key measurements, and tracking investment performance. Specific topics include how the stock market works, the language of stocks, the best techniques to build and refine your portfolio, easy timing tools to stop losses, how the masters tell us to invest, how history tells us to invest, and fundamental vs. technical analysis.

**FIN 315 PERSONAL FINANCE (3 Hours)**

This course covers personal finance and financial planning from both the individual's and planner's perspectives. The students will be taught how to prepare financial plans and to incorporate the theory and practice of personal finance into everyday life. (F)

**FIN 317 PRINCIPLES OF INSURANCE (3 Hours)**

Prerequisite: Junior classification.

This course covers the theory of insurance and risks shifting, and current insurance practices. We also examine personal and business insurance coverage, and the significance or various insurance related contract clauses. (F, S)

**FIN 320 BUSINESS FINANCE (3 Hours)**

Prerequisite: ACC 212.

This course acquaints students with business organizational forms, financial statement analysis, capital budgeting, time value of money, international finance, and ethics. (F, S, Sum)

**FIN 443 FINANCIAL MANAGEMENT (3 Hours)**

Prerequisite: FIN 320.

This course is a study of capital budgeting, risk analysis and valuation, cost of capital, leasing, reorganization, capital structure, and dividend policy. (F, S)

**FIN 446 COMMERCIAL BANKING (3 Hours)**

Prerequisite: FIN 320.

This course considers the theory of commercial banking's affect on the money supply and national income. Emphasis is placed on the concept of asset management, the relationship of asset management to liquidity and profitability, and commercial banking and the nation's credit structure. (F, S)

**FIN 447 INVESTMENTS (3 Hours)**

Prerequisite: FIN 320.

This course covers alternative investment analysis, securities markets, valuation of securities, capital market theory, and aggregate stock market analysis. (F, S)

**FIN 451 PORTFOLIO THEORY (3 Hours)**

Prerequisite: FIN 447.

This course is a study of the theory underlying the management of portfolios consisting of securities and other assets, the measurement of risk and return, utility analysis, the construction of portfolios, and the evaluation of portfolio performance, international diversification, and the legal and ethical responsibilities of financial planners. (F, S)

**FIN 452 INTERNATIONAL FINANCE (3 Hours)**

Prerequisite: FIN 320.

This course considers financial decision making involving the transfer of funds across national boundaries. A multi-dimensional approach is used in examining terms of trade, the international monetary system, foreign exchange markets, international financial markets and portfolio diversification, import and export financing, theory of comparative advantage, and global issues. (F)

## French (FR)

**FR 101 ELEMENTARY FRENCH (3 Hours)**

An introduction to French. Essentials of the language. Training in the four skills of listening, speaking, reading, and writing in the French language. May not be taken by native speakers.

**FR 102 ELEMENTARY FRENCH (3 Hours)**

An introduction to French. Essentials of the language. Training in the four skills of listening, speaking, reading, and writing in the French language. May not be taken by native speakers.

**FR 201 INTERMEDIATE FRENCH (3 Hours)**

Prerequisite: FR 101, 102 or equivalent.

Review of essentials. Reading of appropriate texts and analysis and discussion emphasizing content and grammar. Conducted mainly in French. May not be taken by native speakers. May be used to satisfy 3rd or 4th semester departmental requirement.

**FR 202 INTERMEDIATE FRENCH (3 Hours)**

Prerequisite: FR 101, 102, 201 or equivalent.

Continuation of FR 201. May not be taken by native speakers. May be used to satisfy the 4th semester departmental requirement.

**FR 231 FRENCH CIVILIZATION STDS (3 Hours)**

Emphasis on French history, philosophy, sociology, politics, cultural and social institutions, and, to a limited degree, literature. Taught in English and open to the general study body.

**FR 321 FRENCH COMPOSITION & CONVERSATI (3 Hours)**

Prerequisite: Any 6 hours of Intermediate options or equivalent.

Exercises in speaking, comprehension, and composition. May not be taken by native speakers.

**FR 322 FRENCH CONV. & COMP. (3 Hours)**

Prerequisite: FR 321.

A continuation of FR 321. May not be taken by native speakers.

**FR 422 ADVANCED TOPICS FOR CONVERSATI (3 Hours)**

Prerequisite: FR 321, 322 or equivalent.

Intensive practice in oral French using topics of culture, civilization, politics, and economics of the French-speaking world. May not be taken by native speakers.

**FR 430 ADV FR CIVILIZATION STDS (3 Hours)**

Prerequisite: FR 230 and 231.

Advanced studies of the political, cultural, social, literary, and philosophical background of French Civilization. Taught in French with emphasis on in-depth study and research. Course countries may be adapted to student needs and interests.

**FR 431 ADV FR CIVILIZATION STDS (3 Hours)**

Prerequisite: FR 230 and 231.

Advanced studies of the political, cultural, social, literary, and philosophical background of French Civilization. Taught in French with emphasis on in-depth study and research. Course countries may be adapted to student needs and interests.

**FR 480 INDEPENDENT STUDY (1-6 Hours)**

Prerequisite: Departmental approval.

Special reading assignments, investigative paper, or research project in a specific area of French literature, philosophy or culture directed by a specialist in that area.

## General Business (GB)

**GB 201 INTRO TO LEGAL ASPECTS OF BUSI (3 Hours)**

This course provides an overview of the legal foundations of American society, and its court system. Emphasis is placed on examining the application of laws to the business community, the legal structure and operation of business organizations, and the affect of government regulations on business activity. Business ethics is also covered. (F, S, Sum)

**GB 302 BUSINESS LAW (3 Hours)**

Prerequisite: GB 201.

This course is an in-depth review of the law of contracts, i.e., formation, operation, discharge, and legal and equitable remedies. It examines Articles 2, 3, 4, and 9 of the Uniform Commercial Code (UCC): Sales Contracts, Negotiable Instruments, Bank/Customer Relations and Electronic Funds Transfers. It also covers a review of individual and business organizations bankruptcy relief. (F, S, Sum)

**GB 455 REAL ESTATE PROPERTY MGT (3 Hours)**

This course involves practical training for real estate salespersons, brokers and others in the management of income-producing real property in organizations, leases, contracts, merchandising, tenant selection, relations with owners and tenants, collections maintenance, accounting ethics, and legal and professional relationships. (D)

**GB 457 REAL ESTATE LAW (3 Hours)**

This course is a study of the principles of laws governing real estate including acquisitions, encumbrances, transfer rights and obligations of parties and state and federal regulations thereof. (D)

**GB 460 CO-OP/INDEPENDENT STUDY (3 Hours)**

Prerequisite: Junior standing and the permission of the department chair.

This course is designed for the student who desires work experience to relate to his conceptual background in business theories or for the student who wishes to research a topic that is not currently being offered in the curriculum. (D)

**GB 461 CO-OP/INDEPENDENT STUDY (3 Hours)**

Prerequisite: GB 460, senior standing, and the permission of the department chair.

This course is a follow-up to GB 460 for the student who desires additional work experience or for the student who wishes to research a second topic that is not currently being offered in the curriculum. (D)

**GB 462 Variable Credit Internship (1-6 Hours)**

Prerequisite: At least Junior standing, permission of instructor, and gpa of 2.50 or higher.

This course is designed to facilitate semester-long-on-campus and off-campus internships for students interested in gaining practical work experience in a company. Internships must be related to one or more core business functional areas. It is designed to be variable credit (a maximum of 6 credits) based on the student's academic needs. The credits earned will be applied to the business elective requirements.

**GB 463 Business Analytics (3 Hours)**

This course will cover theory and application of business analytics applied in supply chain management, marketing, management, and other business disciplines. Emphasis is on descriptive statistics, data visualization, descriptive data mining, linear regression, forecasting, optimization models, spreadsheet models, Monte Carlo simulation, and decision analysis. It serves students who want to develop analytical skills to gain insights and solve real-world business decisions problems.

## General Engineering Technology (ETD)

**ETD 361 STATICS (4 Hours)**

Prerequisite: MATH 112.

Force systems, moments of force, couples, equilibrium, moments of area, load diagrams, graphic and analytical methods.

**ETD 362 MATERIAL MECHANICS (4 Hours)**

Prerequisite: ETD 361, and MATH 232.

Stress, strain, elastic constants, deflection, indeterminate loading, torsion, bending, instability and fatigue.

## General Science (SCI)

**SCI 201 PHYSICAL SCIENCE (3 Hours)**

A study of the universe and natural events in the environment.

**SCI 204 GENERAL SCIENCE FOR TEACHERS (3 Hours)**

Topics in astronomy, biology, chemistry, geology and physics are studied. Laboratory work provides for experiments and projects.

**SCI 205 EARTH & SPACE SCIENCE (3 Hours)**

A geophysical study of the earth with emphasis on the major scientific discoveries about the earth and its relation to the universe.

**SCI 215 GLOBAL CHANGE (3 Hours)****SCI 228 SCIENCE SOCIETY & TECHNOLOGY (3 Hours)**

An overview of contemporary topics in science technology and environment.

**SCI 310 EARTH HISTORY (3 Hours)**

Prerequisite: SCI 205 passed with a C or better.

This course covers major events that have shaped the Earth during the past 4.6 billion years. Physical, chemical, and biological characteristics of Precambrian, Paleozoic, Mesozoic, and Cenozoic intervals are discussed. Important topics include the evolution of continents, the origin of mountain ranges, the evolution of oceans, sea-level fluctuations, variation in seawater chemistry, the evolution of atmospheric gases, and major deformation events. In the laboratory portion of the course, students are familiarized with major fossil groups and geological maps.

**SCI 320 SEDIMENTARY ENVIRONMENTS (3 Hours)**

Prerequisite: SCI 205 and 310 passed with a C or better.

Sedimentary environments are areas where sediments accumulate. These include deserts, lakes, rivers, deltas, marshes, beaches, lagoons, shallow seas, and deep sea. This course discusses sediment types, hydrodynamics, and stratal packages of each of these environments. Fundamental knowledge about physical processes that operate in these areas is conveyed. Special attention is paid to sedimentary rock types and structures. Students are expected to be able to recognize and interpret the record left behind by these environments in the geological record. In the laboratory portion of the course, students are familiarized with grain size analysis, sedimentary structures, stratigraphic analysis, and depositional environments.

**SCI 325 MINERALOGY PETROLOGY (3 Hours)**

Prerequisite: SCI 205 and 310 passed with a C or better.

This course is designed to familiarize students with the characteristics of the Earth's materials. This is accomplished by a detailed analysis of minerals and rocks through microscopic examinations. The course begins with an overview of the nature of light. This is followed by a discussion of the response of minerals to the passage of light. Then, microscopic properties of major mineral groups are presented. After these, mineralogical and petrological characteristics of igneous rocks, sedimentary rocks, and metamorphic rocks are evaluated. In the lab segment of the course, students learn to examine microscopic properties of minerals and learn to identify major rock groups through petrographic examinations.

**SCI 331 INTRO TO GIS & REMOTE SENSING (3 Hours)**

This course is open to any undergraduate student who have an interest in learning the basic theory of Geographic Information System (GIS) and Remote Sensing (RS). The course also demonstrate the application of RS and how to use GIS as an analytic tool. We will also discuss theoretical and methodological issues associated with the integration of remote sensing and geographic information systems. GIS is a specialized computer database program designed for the collection, storage, and manipulation, retrieval, and analysis of spatial data. It is a hands-on course in which students are given beginning-level opportunities to process, analyze, and visualize spatial data and information using commercially-available GIS software. In the process, they are introduced to the principles of GIS and its usefulness as an analytical tool and as an effective communication technique in addressing global, environmental, and social science questions. GIS analysis is used in public and private sectors in areas as wide-ranging as policy making, public health, community/regional/state planning, environmental science, sociology, crime analysis, terrorism, agriculture, engineering, business, and marketing. GIS is an analytic tool that many of our majors should learn how to use. One of the primary purposes of the course is to generate enthusiasm and interest in using GIS to make environmental assessments and to analyze social, political, geographic, and economic issues. In addition, in this course, we will also focus on the basic concepts of remote sensing, airborne and space borne sensors, digital image processing, and the principles and practices of remote sensing. We will survey the basic atmospheric radiation and understand imagery interpretation. The course will cover electronic-magnetic frequencies from visible to microwave, descriptions of important satellite orbits and sensors the retrieval of atmosphere variables from active and passive systems, and basic principles of interpretation.

**SCI 401 SCIENCE FOR CHILDREN (3 Hours)**

Prerequisite: Junior standing.

Designed to familiarize students with materials, techniques and unifying principles of science with laboratory exercises emphasized.

**SCI 403 SEMINAR IN SCIENCE (3 Hours)**

Prerequisite: Senior standing.

Provides an opportunity for the student to discuss the most pertinent trends in the fields of science.

**SCI 410 MET&CUR MAT FOR SCIENCE CR (3 Hours)**

Curriculum materials designed to train the students in the selection, preparation and use of curriculum materials in the teaching of science at the secondary level.

**SCI 415 GEOCHEMISTRY (2 Hours)**

Prerequisite: CHEM 141, 142, and SCI 205 passed with a C or better.

This course discusses basic geochemical principles as applied to Earth Science. First, an overview of thermodynamic principles is presented. Then, geochemical aspects of the most common reactions of the atmosphere, rivers, lakes, estuaries, and oceans are evaluated. Other 372 important issues that are discussed include geochemical reactions which occur during weathering, early diagenesis, burial diagenesis, and the formation of ore deposits. A dedicated geochemical laboratory is also associated with the class where students learn to calculate mineral solubility and perform simple experiments.

**SCI 420 STRUCTURAL GEOLOGY (3 Hours)**

Prerequisite: SCI 205, and 310 passed with a C or better.

This course familiarizes students with changes that occur in Earth's materials collectively referred to as deformation. The course is designed to present the deformation of rocks at a scale ranging from microscopic to continent-wide regions. The course begins with the introduction of stress, strain, force, and factors controlling rock behavior including an analysis of the mechanical behavior of rocks. This is followed by a discussion of folds, normal faults, thrust faults, strike-slip faults, joints, lineation, and foliation. In the laboratory portion of the course, students learn basic elements of structural geology, work with Brunton compasses, prepare structural cross-sections, and apply graphical solutions to solve structural problems.

**SCI 425 ENVIRONMENTAL GEOLOGY (2 Hours)**

Prerequisite: SCI 205, and 310 passed with a C or better.

The aim of this course is to provide basic and fundamental information about processes, which affects the environment. The course begins with elementary background on some important concepts of Earth Science including overviews and rocks and minerals, global tectonics, earthquakes, and volcanoes. This is followed by discussions of environmental issues produced by flooding, hurricanes, groundwater pollution, waste management, fossil fuel, climate change, global warming, and sea-level change. In the lab section of this course, students conduct hands-on projects related to our environmental projects in an urban setting.

**SCI 431 APPLIED GIS AND SPATIAL ANALYSIS (3 Hours)**

This course emphasizes geographic information systems (GIS) applications and spatial data analysis in atmosphere-related sciences. Students learn through hands-on case studies, and in-class thinking exercises. GIS is the computerized system designed for the storage, retrieval, and analysis of geographically referenced data. GIS uses advanced analytical tools to explore spatial relationships, patterns, and processes of cultural, biological demographic, economic, geographic, and physical phenomena. This course covers underlying geographic concepts (world coordinate system and projections, vector map topology, tiled and layered maps, etc.), map design and outputs, geodatabases, attribute data, digitizing, geocoding, spatial data processing, and advanced spatial analysis in atmosphere-related sciences. This course will teach students the core functionality of ArcGIS Desktop software: how to make maps, carry out spatial analysis, and build and edit spatial databases in the context of realistic projects. The technical focus of the course includes computer lab exercises and case studies using the Desktop GIS software, ArcGIS from ESRI. The applications covered in this course include tornado density mapping, tornado siren analysis, hurricane track visualization, social vulnerability mapping for atmospheric disasters, gridded surface temperature (Net CDF) visualization, housing assessment, land use changing, census population and demographic studies, and business applications.

**SCI 432 HYDROLOGY (3 Hours)**

Prerequisite: SCI 205, and 310 passed with a C or better.

This course is designed to provide students with fundamental information about fresh water on Earth. As the human population increases, so does our need for drinking water. The course provides an analysis of surface and groundwater reservoirs. An analysis of drainage basin characteristics is presented. Darcy's Law is presented in detail. Aquifer and aquitard characteristics are covered. Water chemistry, groundwater resource evaluation, and water quality are presented.

**SCI 480 EARTH SCIENCE SEMINAR (1 Hour)**

Prerequisite: SCI 205, 310, and 430 passed with a C or better.

This course is designed to familiarize students with major topics in Earth Science. Students conduct research and prepare presentations. Topics covered include plate tectonics, mountain building, mass extinction, meteoric impact, carbon cycle, ocean circulation, ocean chemistry, climate change, global warming, coastal land loss, groundwater contamination, and major environmental issues.

## General Science Lab (SCIL)

**SCIL 201 PHYSICAL SCIENCE LAB (0 Hours)**

SCIL 201 is a (0) zero credit (NG) Co-requisite laboratory to accompany SCI 201. The labs are designed based upon the learned concepts from the lecture, the experiments are expected to further implement deeper comprehension of the scientific concepts with more direct physical experimentations and visual observations.

**SCIL 205 EARTH & SPACE SCIENCE LAB (1 Hour)****SCIL 310 EARTH HISTORY LAB (1 Hour)**

## General Studies (GNST)

**GNST 100 LEARNING SKILLS (3 Hours)**

This course is designed for students enrolled in the Summer Developmental Program. Emphasis is placed on English, math and reading skills along with study skills and other academic and social activities at the university.

**GNST 101 ACADEMIC SUPPORT I (3 Hours)**

This course is designed to assist conditionally admitted, as well as other volunteer students with their freshman courses. The goal of this course is to provide individualized support for  $\zeta$ marginally $\zeta$  prepared students in regular academic credit courses.

**GNST 102 ACADEMIC SUPPORT II (3 Hours)**

This course is the second part of the year-long academic program which is designed to continue to offer individualized support for  $\zeta$ marginally $\zeta$  prepared students in regular academic credit courses. Emphasis is placed on study skills, learning to learn strategies and lifelong skills.

**GNST 103 INTEGRATED ACADEMIC SUPPORT I (3 Hours)**

This seminar focuses on the academic strategies, resource knowledge, and social networking necessary for freshmen to make a successful transition to college life., this course is taken in conjunction with Intermediate English 002. In this course, students practice processes appropriate for college writing and reading, identifying rhetorical contexts (audiences and purposes) common in academic discourse and writing about personal experiences as well as academic readings. By writing and revising several essays, students refine their pre-writing, drafting and revising strategies to produce focused and detailed papers.

**GNST 200 LEARNING TO LEARN (2 Hours)**

This course is designed to give students a chance to put failure in perspective and take charge of their future. It will assist students in determining what obstacles are interfering with their learning, in overcoming their problems and in gaining self-confidence and self-determination. (For students on probation.)

**GNST 201 ARMS I (1 Hour)**

Academic Readiness and Monitoring Program, is an initiative designed to address the needs of a special population of student athletes who are identified as at risk as a result of their transitional status (Freshman and/or Transfer). This course will cover a variety of topics useful for all incoming students, but will have a special emphasis on the issues that impact the success of JSU student-athletes.

**GNST 202 ARMS II (2 Hours)**

Academic Recovery and Monitoring Program, is an initiative designed to address the needs of a special population of student-athletes who are identified as at-risk as a result of their previous semester term GPA. This course will expand on the acquisition of scholarship skills begun in ARMS I and will cover a variety of topics useful for at-risk students, but will have a special emphasis on the issues that impact the success of JSU student-athletes. Student-athletes will gain a better understanding of the academic rigors and expectations that their individual academic departments have of them as university students/scholars.

**GNST 210 DISTANCE LEARNING ORIENTATION (0 Hours)**

## Geography (GEOG)

**GEOG 105 INTRO TO CULTURAL GEOGRAPHY (3 Hours)**

Knowledge of the basic concepts characterizing each culture with emphasis on past population and global problems; patterns and spatial aspects of fertility and mortality; migration; social customs on the landscape; and urban patterns. Students are required to do two cultural field based projects.

**GEOG 209 WORLD REGIONAL GEOGRAPHY (3 Hours)**

Study of the different geographical regions of the world consisting of early settlement; people and economic development; physical environment; resources; and future. This class is a lecture-lab. Students are required to do lab activities in class, the library, and community field based as well.

## Hazardous Waste Management (ITHM)

**ITHM 300 PRIN OF HAZARDOUS MATERLS MNGT (3 Hours)**

Prerequisite: CHEM 141.

An introductory survey course for the hazardous materials management program. Provides firm foundation on basic hazardous materials management principles. Topics include definitions of hazardous materials, regulatory overview, technology for storage and disposing hazardous materials, air and water quality Issues Industrial hygiene and hazardous waster management. (F)

**ITHM 301 REGULATORY FRAMEWORK (3 Hours)**

Prerequisite: ITHM 300, CHEM 141.

A study of legislation and regulations surrounding hazardous materials and toxic waste. A study of major legislative/regulatory areas which include: RCRA, TSCA, OSHA, HMTA, CERCLA, and EPA. (S)

**ITHM 302 TECH FOR STR TREATMENT DIP HM (3 Hours)**

Prerequisite: ITHM 300, CHEM 141.

A study of basic principles of hazardous waste management. Methods of treatment and disposal. A comprehensive look at the technologies and related issues in hazardous waste management. (S)

**ITHM 402 INDUSTRIAL HYGIENE (3 Hours)**

Prerequisite: ITHM 300, CHEM 141.

An overview of occupational health hazards, their recognition, evaluation, and control. Emphasis on how industries are regulated and how occupational health standards are promulgated. (F, S)

**ITHM 405 RISK ASSESSMENT (3 Hours)**

Prerequisite: ITHM 300, CHEM 141.

Examines the risk assessment process and its application in various situations, ranging from setting hazardous facilities to regulation and control of toxic substances in the environment. Risk analysis methods and their interaction with social economic and political factors. (F, S)

## Health (HE)

**HE 101 CONCEPTS OF HEALTH (3 Hours)**

This course is designed to give students a basic knowledge in the areas of drugs, alcohol, sexually transmitted diseases, ecology, chronic diseases, nutrition and physical fitness enabling them to make wise decisions concerning their life and health. (F, S, Sum)

**HE 102 CONCEPTS OF HEALTH FOR TEACHER (3 Hours)**

This course is designed to give prospective health teachers a comprehensive body of knowledge in the areas of mental and emotional health, alcohol and drugs, nutrition, physical fitness, infectious diseases, chronic diseases, STD's and AIDS.

**HE 113 FIRST AID (3 Hours)**

Designed to acquaint students with the skills needed to provide immediate aid to persons who suffer sudden injury or illness. This course also services as a preparatory course for certification as an instructor. (F, S, Sum)

**HE 122 FOUNDATIONS OF HEALTH (3 Hours)**

This course is designed to provide an understanding of the historical background, principles, philosophy and contemporary problems in the field of health. (S)

**HE 206 ORG & ADMIN OF SCH AND COM HEA (3 Hours)**

This course is designed to provide information on the organizational structures of the various community health and related agencies and the public school system. Emphasis is placed on the functions of each entity and how they coordinate activities with other agencies and the public schools. (F, S)

**HE 208 EPIDEMIOLOGY OF DISEASES (3 Hours)**

This course is a survey of selected communicable and noncommunicable diseases of man. An in-depth study of pathogenic and non-pathogenic disease theories will be examined as well as sign symptoms of these selected conditions. (F, S)

**HE 311 FIRST AID PREVENT&CARE O (3 Hours)**

This course provides for an integrated interpretation of the principles of anatomy, physiology and kinesiology as related to the prevention and care of injuries. (F, S)

**HE 333 METHODS & MATER. IN TEAC (3 Hours)**

This course provides for instruction in the significant aspects related to integration and coordination of health methods, materials and techniques of teaching health. (F, S)

**HE 399 HUMAN SEXUALITY (3 Hours)**

This course provides the student with a basic orientation to the varied dimensions of sexuality. This orientation includes information on historical perspectives on sexual customs and behavior, methods in sex research, anatomy and physiology of the reproductive systems, reproduction, birth control, STDs, and emphasis on sexual responsibility. (F, S)

**HE 401 CONSUMER HEALTH & SAFETY (3 Hours)**

(A<sub>2</sub>Elementary Schools, B<sub>2</sub>Secondary Schools). This course is designed to integrate the research of effective teaching and learning with theory and practice. Students will engage in micro-teaching and will be expected to demonstrate mastery of fourteen competencies measured by the Mississippi Teacher Assessment Instrument. Students will also be introduced to classroom management strategies for effective classroom discipline and teaching routines. The clinical practice will be a field based activity.

**HE 404 FAMILY LIVING EDUCATION (3 Hours)**

This course is designed to provide basic information in the physiological/ sociological- cultural aspects of sex education and family living. Critical issues in sex will be vied including sex as it affects the Black American. (F)

**HE 495 PROBLEMS & ISSUES IN HEA (3 Hours)**

This course is an investigation of special health problems with emphasis on possible prevention of such problems. Directed individual study of selected problems in drug abuse, alcoholism, venereal disease, cancer and heart disease will be conducted. (F)

**HE 498 DRUG EDUCATION (3 Hours)**

This course provides an overview of the world of drugs; drug abuse, drug dependence, drug-using behavior, and examining the use, effects, and potential for abuse of the major psychoactive drugs. (F, Sum)

## Health Care Administration (HCA)

**HCA 301 INTRO TO HEALTH CARE ORGANIZAT (3 Hours)**

An overview of the healthcare delivery systems in the United States. It is designed to familiarize beginning healthcare administration students with social, political, economic, demographic, cultural, financial, and technological forces that shape the organization, structure, and operation of the United States healthcare system.

**HCA 303 MEDICAL AND ADMN. TERMINOLOGY (3 Hours)**

This course is designed to study the basic and administrative medical language skills and essential concepts of management science applied in healthcare organizations.

**HCA 310 HEALTH ECONOMICS & PAYERS SYST (3 Hours)**

This course is designed to acquaint students with the application of micro-economics to the health sector. Topics covered will include concepts and measures of health, markets for medical and hospital care, health insurance, financing of healthcare, demands for healthcare, physician supply, cost efficiency, cost effectiveness, and cost benefit analysis.

**HCA 311 PUBLIC HEALTH AND EPIDEMIOLOGY (3 Hours)**

This course is concerned with the modern organization, philosophy and objectives of public health policies and practices. This course examines methods, information, and determinants of health status involved in applications of epidemiology to control the health problems of community populations.

**HCA 320 HEALTHCARE SERVICES MANAGEMENT (3 Hours)**

This course introduces students to modern management concepts, tools, and techniques in healthcare administration, and to practical applications of management theory in health services organizations. Topics covered will include: (a) the ethical, legal and technological aspects of healthcare administration; (b) motivational theories and leadership and managerial styles; (c) strategic planning and marketing; (d) problem-solving, decision-making, and conflict resolution strategies; (e) organizational communication; (f) human resources management; and (g) labor relations.

**HCA 340 HCA OF AMBULATORY SERVICES (3 Hours)**

This course examines the organizational characteristics and management requirements of the diverse range of ambulatory healthcare setting, including emergency departments, primary care centers, attached and free-standing outpatient service units, physician office practices, and other such non-inpatient diagnostics, surgical, and rehabilitation facilities. Of special interest is the exploration of both general and distinct administrative competencies and practices that are essential for professional managers of these ambulatory-based services.

**HCA 352 HUMAN RESOURCE MNGT IN HEALTHC (3 Hours)**

Human resources are the most valuable elements of any organization, especially in the healthcare industry. It is management's responsibility to implement and coordinate a total human resource system; composed of work force planning, recruitment and selection, placement, and retention; to ensure that the health service organization is properly staffed.

**HCA 365 HOSPITAL ACUTE CARE ADMINISTRA (3 Hours)**

Major teaching hospitals (academic medical centers), short-term general community hospitals, community hospitals, long-term care hospitals, rehabilitation hospitals, military and Veteran Administration hospitals, psychiatric hospitals, and women and children's hospitals, are all licensed as institutions offering acute medical care. Among these various types of facilities are vast differences in their characteristics and the different needs of people served. This course explores these various institutional distinctions of organizational design, service goals, and professional cultures.

**HCA 380 STATISTICS FOR HEALTH SERVICES (3 Hours)**

This course studies basic biomedical public health and administrative statistical measurement techniques to test hypotheses, confirm correlations and interpret health information for management, clinical, and organization decision purposes.

**HCA 381 LONG-TERM AND MENTAL HCA (3 Hours)**

This course is designed to provide students with a basic overview of the long-term care continuum, including nursing homes, mental health systems, and non-instructional alternatives such as home health agencies, adult day care centers, and retirement homes. The long-term care needs of the elderly and the mentally ill concomitantly with the public policy responses to their needs will be examined.

**HCA 384 HEALTH POLICY AND POLITICS (3 Hours)**

This course is an overview of healthcare policy in the United States. It is designed along four major themes:

**HCA 400 HEALTHCARE ADMINISTRATION INTE (3 Hours)**

The second in a two-sequence series of administrative internships for healthcare administration students. The course is designed to allow students to apply learned theories and concepts in a work situation. Placement sites will include, but not be limited to, hospitals, long-term care facilities, ambulatory care centers, managed care organizations, mental health centers, community health centers, medical group practice, health insurance companies, rehabilitation centers, and public health agencies.

**HCA 402 HEALTHCARE PLANNING & MARKETIN (3 Hours)**

This course is designed to provide students with an overview of the strategic planning processes used by healthcare organizations. Methods and practices of determining market demands and resource requirements for health services development are explained.

**HCA 420 ADMIN LAW AND ETHICS IN HEALTH (3 Hours)**

This course is an exploration of the legal issues and professional management ethics related to providers and consumers of health services. Emphasis is placed on application of legal doctrines in the healthcare settings and the administrative implications of health related legislation and programs. Study topics include negligence, liability, medical malpractice, labor law, informed consent, and related patient care protective rights.

**HCA 431 HEALTH PROFESSNL CAREER DEV. S (3 Hours)**

This is a professional development course designed to socialize and familiarize the student with the historical background and trends in the field of healthcare administration. The social, political, economic, and technological factors influencing the development and growth of the healthcare administration profession will be explored. Additionally, students will be introduced to the job search process and the process of applying for admission to professional schools. Students will learn how to: (a) write a cover letter and resume, (b) write a job search plan, (c) apply interviewing techniques, (d) dress professionally, and (e) develop networking skills.

**HCA 440 HEALTH MANAGEMENT INFORMATON S (3 Hours)**

The analysis, design and installation of management of information systems in healthcare organizations are studied, including their application to data processing, inventory control, resource allocations, space utilization, work flow and job design and analysis, quality improvement, reengineering, and change management.

**HCA 450 FINANCIAL MNGT OF HEALTH SERVI (3 Hours)**

This course teaches students the fundamental concepts and principles of financial medical services in health businesses. Topics include financial management systems, breakeven analysis, cost-benefit ratios, rate-setting, working capital, cash flow, and asset-budget planning for financial control.

**HCA 470 HEALTHCARE RESEARCH AND EVALUA (3 Hours)**

This is an introductory examination of the theories, methods and approaches in research and evaluation of healthcare problems. Students are taught how to design scientific investigations of problems affecting personal health status and the organizations providing health services. The classroom learning concludes with student applications of research designs and proposals to formulate selected health problems.

**HCA 480 APPLIED RESEARCH/MNGT PROJECT (3 Hours)**

Prerequisite: All other courses.

Students conclude their curricular studies by independently designed and implementing either research or administrative projects that address positive advances for health service problems through scientific management solutions. The research option uses small-scale studies of specific organizational or personal health problems. The management project similarly expects students to design and complete an operational problem or change in some healthcare setting by applying administrative practices. Each project option requires a proposal and final report approved by the faculty advisors that students select for supervision.

**HCA 482 MANAGED CARE & INTEGRATED SYST (3 Hours)**

This course offers students a descriptive survey and assessment of the trends, concepts, policies and practices in the managed care industry (MCO). Emphasis is on how administrative personnel fulfill the MCO mission and dynamic development. Students review the different models of these networks and organizations together with the impact of regulation, subscriber rights, risk management, physician relationships, and other challenges to manager care. National healthcare reform via private markets and MCOs versus public system interventions is also considered within the vexing dilemma of benchmark social change in American health policy.

**HCA 498 CONTEMPORARY ISSUES IN HCA (3 Hours)**

This course is designed to teach the participants ways to abstract research journals on issues prevalent to the course. It focuses on areas of Healthcare Agencies that contribute to the Academic growth of the students. A variety of readings are required and oral presentation given to improve their communication skills. Visitations to these agencies are highly recommended.

**HCA 499 INDPNDNT STUDS IN HEALTHCARE A (1-3 Hours)**

This course is intended to provide to students, especially graduating seniors, the opportunity to acquire an in-depth and specialized knowledge of one or more of the myriad issues in the healthcare system. It calls for an individualized and independent investigation and study of a healthcare or public health issue or problem. Under the guidance of an instructor of similar interest in the issue problem, the student develops and implements a conceptual framework that undergirds the study. Pedagogy is expressed through the use and application of management science theories.

## History (HIST)

**HIST 101 HISTORY OF CIVILIZATION I (3 Hours)**

A global survey and study of the histories of major geographical regions and populations between humans; prehistory beginnings and their civilizational, societal, and cultural developments by the 15th century. Additionally, the course provides and promotes student learning outcomes that include content literacy about the human historical experience and the honing of specific skill sets; i.e., reading comprehension, critical, and analytical thinking as well as effective written and oral communication.

**HIST 102 HISTORY OF CIVILIZATION II (3 Hours)**

A global survey and study of the histories of population groups, their regional geographics and their civilizational and cultural developments from the 15th and the 21st century. The course emphasizes both content literacy and enrichment as well as the honing of skill sets, especially students; reading comprehension, analytical and critical thinking, problem solving and effective oral and written communication.



**HIST 111 HISTORY OF CIVILIZATION I (3 Hours)**

The course is specifically designed for freshmen history majors to begin their subject literacy in prehistory, early civilizational, ancient, and medieval history. Provided to majors as well is the opportunity to realize proficiency in the required academic skills of the discipline, especially the requisite competencies in research, critical and analytical thinking and effective written and verbal communication.

**HIST 112 HISTORY OF CIVILIZATION II (3 Hours)**

A study of global regions, populations and cultures commencing with the 15th century technological advances in European maritime travel and reconnaissance, the resulting foreign exploration, colonization, revolutions, and rise in nation states, the emergent economic and military alliances, the world wars, the Cold War, the decolonization of Africa and Asia, and the emergence of the post-colonial world in the latter 20th and beginning of the 21st century. The designed course of study is for freshmen history majors affording them continued historical literacy and the further honing of the skill sets of research, proficient written, and verbal expression as well as critical, creative, and analytical thinking.

**HIST 201 UNITED STATES HISTORY I (3 Hours)**

A survey of American society from the Colonial period to Reconstruction that emphasizes its political, cultural, social, and economic developments.

**HIST 202 UNITED STATES HISTORY II (3 Hours)**

A survey of American society since Reconstruction that emphasizes its political, cultural, social, and economic developments.

**HIST 221 UNITED STATES HISTORY I (3 Hours)****HIST 222 UNITED STATES HISTORY II (3 Hours)****HIST 260 EARLY AFRICAN AMERICAN HIST (3 Hours)**

HIST 260 Early African American History, An examination of African-descended people's historical participation in American life from the Atlantic slave trade through reconstruction.

**HIST 261 MODERN AFRICAN AMERICAN HIST (3 Hours)**

HIST 261 Modern African American History, An examination of African descended people's historical participation in modern American life since reconstruction.

**HIST 300 ORAL HISTORY METHODOLOGY (3 Hours)**

An introduction to the application of oral history techniques and methodology.

**HIST 305 AFRICAN AMERICAN FUTURES (3 Hours)****HIST 306 TOPICS IN HISTORY (3 Hours)**

A study of historical problems and issues in American, African, Latin American, Asian, and European History using comparative analysis to promote intense topical reading, research, and critical writing exercises.

**HIST 308 AMERICAN MILITARY HISTORY (3 Hours)**

HIST 308, American Military History Survey of the American war experience from the colonial era to the modern day.

**HIST 309 HIST OF MODRN CIVIL RIGHTS MOV (3 Hours)**

This course will serve as a survey course that will delve into the inception of the Civil Rights Movement beginning in 1619 through the Black Power Movement of 1966 and beyond. Emphasis will be placed on the evolution of the Modern Civil Rights Movement, with an emphasis on the period from the 1954 Brown v. Board of Education decision through the complete enfranchisement of Black Americans.

**HIST 312 Black American Military History (3 Hours)**

HIST 312 Black American Military History is an exploration of the challenges and impact of Black Americans in the American armed services from colonial America to the end of the segregated American Armed Forces.

**HIST 321 BIRTH OF THE AMERICAN REPUBLIC (3 Hours)**

HIST 321 (3) BIRTH OF THE AMERICAN REPUBLIC. The course chronicles the founding and development of the colonies that became the United States and analyzes the origins of the American Revolution and establishment of the American Republic.

**HIST 322 ANABELLUM AMERICA (3 Hours)**

A survey of America's Antebellum era. The course emphasizes the major historical developments of the period, which included social reform movements, the growing sectional divide, the expansion of slavery, the pursuit of manifest destiny, and the nation's drift toward Civil War.

**HIST 325 HIST OF MISSISSIPPI (3 Hours)**

A survey of the political, economic, social, and cultural development of Mississippi with special emphasis on late nineteenth and twentieth centuries.

**HIST 328 HISTORY OF LATIN AMERICA (3 Hours)**

A reading and research centered course focusing on the historical development of Latin America in the Western Hemisphere. Primary emphasis will be given to the impact of Spanish culture in the region, patterns of political, economic, social and intellectual ferment as well as historic and enduring problems specific to Latin America.

**HIST 329 HIST OF THE CARIBBEAN (3 Hours)**

A study of the economic, political, social, and cultural life, of the people of the Caribbean area and their relationship with the United States.

**HIST 331 RENAISSANCE AND REFORMATION (3 Hours)**

A survey of the political, economic, social, scientific, intellectual, and ecclesiastical developments in Europe during the fourteenth and fifteenth centuries, culminating with the Reformation and counter-Reformation movements of the sixteenth century.

**HIST 344 HISTORIOGRAPHY (2.64-3 Hours)**

Designed to study the problems encountered in studying, interpreting and writing history. Majors will also be introduced to schools and theories of historical interpretation in American, Asian, European, and African historiography.

**HIST 380 HIST OF THE FRONTIER (3 Hours)**

The concept of the Frontier is arguably one of the most contentious interpretation U.S. History is the Frontier a process, a place, or perhaps both? As a source of endless debate, the Frontier will be examined along with the American West. The Frontier and the West each have a long complex history that is often difficult to separate from myth. It is a history that this course will explore from many different angles.

**HIST 382 HISTORY OF THE SOUTH (3 Hours)**

An examination of the social, political, and economic development of the American South from Jamestown to the present with a particular focus on the history of race relations.

**HIST 384 SEXUALITY IN THE UNITED STATES (3 Hours)**

Students will examine the changes in sexual morals, the regulation of sexual behavior, and the construction of sexual identities from the colonial period to the present.

**HIST 385 HIST OF AFRICAN AMER. WOMAN I (3 Hours)**

An in depth exploration of the historical experience of African American women from settlement through the Civil War.

**HIST 386 HIST OF AFRICAN AMN WOMEN II (3 Hours)**

An in depth exploration of the historical experience of African American women from settlement through the Civil War.

**HIST 390 UNITED STATES MEDIA HISTORY (3 Hours)**

This course examines the history of media in the United States and its relationship to American society and culture. It will trace the role media has played in shaping public understanding of historical events, developments in technology and the creation of new forms of media, the political and social uses of media, and the place of media in American culture.

**HIST 403 CONTEM MID EST 1900-PRES (3 Hours)**

1900 to Present. Dissolution of the Ottoman Empire, rise of Zionism and Arab Nationalism, the conflict of Palestine, the establishment of the state of Israel in 1948, the Egyptian Revolution.

**HIST 405 EARLY AFRICA (3 Hours)**

A study of pre-colonial African History. The course emphasizes African civilizations before the coming of Europeans.

**HIST 406 COLONIAL AFRICA (3 Hours)**

The study of the European scramble for Africa and the subsequent division of the continent's societies into colonies. The course explores the emergence of nationalism in Africa and the struggle for independence.

**HIST 407 CONTEMPORARY AFRICA (3 Hours)**

A study of the emergence of Africa since 1945 with emphasis on the role of nations of the continent in both regional and world affairs.

**HIST 412 EUROPE IMPERIALISM (3 Hours)**

An analysis and interpretation of the circumstances that enabled Europeans and their descendants to explore, settle, conquer, control, and dominate two-thirds of the world's peoples.

**HIST 419 CONTEMPORARY UNITED STATES (3 Hours)**

HIST 419 (3) Contemporary United States, 1941 to the Present. The Postwar Era in the United States has been marked by social upheaval. Marginalized people, including African Americans, Mexican Americans, Native Americans, woman, and homosexuals, fought for their civil rights. The Cold War pushed the world to the brink of annihilation. Vietnam divided the nation. The Counterculture challenged the status quo. The contrast between the Rust Belt and the Sun Belt signified economic, demographic, and political changes. Liberals launched a political revolution and Conservatives a counterrevolution in response. This course will address these social, cultural, and political developments, and others, that have taken place since 1941.

**HIST 440 HISTORY OF WORLD WAR II (3 Hours)**

The course will survey the events of the war from its origins in the policy of appeasement through the dropping of the atomic bomb. The resulting shifts in global power caused by the war will be addressed as well.

**HIST 447 RESEARCH SEMINAR (3 Hours)**

For senior History majors with emphasis on completion of a major historical research paper.

**HIST 448 IND STUDY &/OR DIRECTED RDGS (3 Hours)**

Prerequisite: Consent of instructor.

Intensive study in research materials or reading directed toward a specified topic or project.

**HIST 452 INTRO TO PUBLIC & APPLD HIST ST (3 Hours)**

Introduction to Public and Applied Historical Studies. An introduction to selected subjects and skills related to the use of history in the public and private sectors.

**HIST 460 HISTORY OF SCIENCE AND SOCIETY (3 Hours)**

Study of scientific theories, experimentations, and personalities from an historical perspective with an emphasis on the influence of science on society and culture.

**HIST 461 HISTORY OF DISABILITY (3 Hours)**

An exploration of the historical experience of people with mental and physical disabilities, including a critical survey of the shifting cultural conceptions of mental and physical disability. Emphasis will be placed on the lives of people with disabilities in the community, the development of residential institutions, the growth of social welfare programs, and the disability rights movement of the late twentieth and early twenty-first centuries.

**HIST 462 HISTORY OF CHILDHOOD AND YOUTH (3 Hours)**

An exploration of the historical experiences of children and youth. The class examines how race, gender, class, religion, and disability shaped the lives of children and youth. Other topics to be discussed include the role of the community and state in child-rearing and evolving concepts of childhood and adulthood.

**HIST 463 HISTORY OF PUBLIC HEALTH (3 Hours)**

A critical study of the history of public health, including the changing role of epidemic disease, the development of government public health programs, lay health care practices, the rise of modern medical professions, the growing influence of technology in health care, and the persistence of racial, ethnic, and class differences in health care, morbidity, and mortality.

**HIST 473 INTRODUCTION TO MUSEOLOGY (3 Hours)**

Survey of the history of American museums and principles of museum management.

**HIST 491 FILM AND HIST SEM: FILM MAKERS (3 Hours)**

FILM AND HISTORY SEMINAR: FILM MAKERS' RESPONSES TO POLITICAL DEBATES AND POLICIES IN THE UNITED STATES. Students will examine the ways in which films engaged with selected political debates and policies in the United States between 1900 and the present. Topics may include the World Wars, Cold War, War on Terror, Great Depression, Immigration, Prohibition, the Red Scare, and urban development.

**HIST 492 FILM AND HIST SEM: FILM MAKERS' (3 Hours)**

FILM AND HISTORY SEMINAR: FILM MAKERS' RESPONSES TO SOCIAL CHANGE AND CONFLICT IN THE UNITED STATES, 1900-PRESENT. Students will examine the ways in which films reflected and engaged with selected social issues in the United States from the beginning of the twentieth century to the present. Topics may include African American, Mexican American, and Native American civil rights; the Feminist Movement; Gay and Lesbian civil rights; sexual revolutions of the 1920s and postwar era; and class conflict.

**HIST 493 Film and History Seminar: Filmmakers' Interpretations of the War (3 Hours)**

Students will examine the ways in which films from around the world reflected and engaged with the political, social, and military issues of a selected war or of multiple wars during and since the war(s).

**HIST 498 DIS & PRE OF LOC, ST, & NAT HIST (3 Hours)**

Discovery and Preservation of Local, State, and National History. Survey of techniques and methodologies for researching and writing the histories of various political and cultural subdivisions. The subdivisions that will serve as venues for the historical studies include and range from local municipalities, small towns and counties to the state, region and nation.

## Honor Course (HON)

**HON 110 THE POSITIVES OF PRESENTING MY BEST SELF (1 Hour)**

## Human Resource Development (CLHR)

**CLHR 200 FOUNDATIONS OF HUMAN RESOURCE DEVELOPMENT (3 Hours)**

This course provides an overview of the discipline and field of human resource development. The course will focus on how individuals and groups learn and interact within organizations. Topics will include strategic planning for human resource development, needs assessment, program development, application of workplace learning theories, career development theories and methods, and application of organizational learning theories.

**CLHR 215 DESIGN, DELIVERY, & FACILITATION OF TRAINING (3 Hours)**

This course provides theoretical and applied introduction to the analysis, design, development, implementation, and evaluation of training for adults in organizations. Students will create a learning community to safely explore the theoretical and practical issues of adult learning research and theory.

**CLHR 220 TRAINING, DEVELOPMENT, & COMMUNICATION (3 Hours)**

This course is designed to teach perspective trainers the importance of effective communication skills at every level of the training process. From assessing the audience needs to developing and marking the training session, students will hone their communication skills and apply those skills to produce the types of documents required in an effective training program.

**CLHR 310 MANAGEMENT & ADMINISTRATION OF THE TRAINING FUNCTION (3 Hours)**

This course addresses the principles and processes necessary to effectively manage and coordinate the training function in business and industry. Topics include strategic planning of the training function, responsibilities and tasks of managing training, analyzing training problems, managing training projects, facilities planning, legal and ethical considerations in training, budget and trends in the training and development field.

**CLHR 320 ISSUES IN HUMAN RESOURCE DEVELOPMENT: CONFLICT RESOLUTION & NEGOTIATION (3 Hours)**

Students will learn conflict resolution skills for managing and resolving conflict in the workplace. Emphasis will be placed on alternate dispute resolution methodologies, including mediation and negotiation strategies. An extensive use of case studies as they relate to conflict resolution among peers, subordinates, and superiors will be examined. A special project will include the design and implementation of an Alternative Dispute Resolution (ADR) program for an organization.

**CLHR 330 ETHICAL PROCESSES IN THE WORKFORCE (3 Hours)**

This course will address the linkage between outcomes and instruction both in theory and in practice. Students will be given hands-on experience of designing micro-learning systems involving the synthesis of systematic thinking and design actions. The course will also discuss technology integration research, and effective planning and selecting appropriate technologies to improve instruction and learning design.

**CLHR 415 PROGRAM PLANNING & DEVELOPMENT IN CONTINUING EDUCATION (3 Hours)**

This course will examine methods for establishing a productive continuing education/lifelong learning program. The principles and procedures involved in designing, organizing, operating and evaluating comprehensive continuing education and training programs will be explored. An emphasis will be placed upon the role and responsibilities of the program manager or director.

**CLHR 425 ASSESSMENT & ANALYSIS OF TRAINING NEEDS (3 Hours)**

This course is designed to provide students with an opportunity to effectively plan, develop, and implement training for organizations. The course will allow students to determine the training needs of an organization, develop the training design, implement, and evaluate training material.

**CLHR 450 HUMAN RESOURCE DEVELOPMENT SEMINAR (3 Hours)**

This seminar is designed for students to examine critical issues in the area of human resource development using various research methodologies. Students will be able to evaluate how research has been used to study those critical issues.

## Industrial Construction (ITC)

**ITC 400 TECHNICAL SEMINAR (3 Hours)**

Prerequisite: Senior standing.

An inter-departmental course where application of technical and occupational skills and knowledge are emphasized. Experience in using a variety of techniques at various levels and areas of supervision both on and off campus. (F, S)

## Industrial Drawing (ITD)

**ITD 114 COMPUTER-AIDED DRAFTING (3 Hours)**

The fundamentals of planning and drawing, orthographic projections, graphical and technical analysis, visualization, delineation and communication of special problems. Computer-aided drafting (CAD) will be used as a tool to solve the various problems. (F, S)

**ITD 203 ADVANCED COMPUTER-AIDED DRAFTING (3 Hours)**

Prerequisite: ITD 114.

Instruction includes drafting and design aids in AUTOCAD and MICROCAD with emphasis on architectural and engineering drafting. (S)

**ITD 327 MACHINE DESIGN (3 Hours)**

Prerequisite: ITD 203.

Pattern drafting, machine drawing and design tolerance and fabrication drawings. (F, S)

## Industrial Electricity (ITE)

**ITE 111 BASIC ELECTRONICS (1-5 Hours)**

Prerequisite: MATH 111.

An introductory study of laws, theorems, concepts, and principles of electricity and electronics. (F, S)

**ITE 112 INTERMEDIATE ELECTRONICS (1-5 Hours)**

Prerequisite: ITE 111.

A study of DC/AC current, resistance, magnetism, inductance, capacitance, transformers, etc. (F, S)

**ITE 180 Introduction to Robotics (3 Hours)**

This course is designed to provide an understanding of the basics of robotics; sensors and actuators; educational robot drive-train mechanisms and motor controls; educational robot designing and building; programming educational robotics modules for autonomous and remote controlled navigation; semester-end group projects (teamwork).

**ITE 221 DEVICES AND CIRCUITS I (3 Hours)**

Prerequisite: ITE 111 112.

Current flow in doped semiconductors, PN junctions, bipolar junction transistors, and single-staged amplifiers. Emphasis is placed on current control with PN Junction, and on recognition of and characteristic of the three basic amplifier configurations. (F)

**ITE 320 Introduction to Robotics Process Automation (3 Hours)**

This course is an introduction to the fundamentals of Robotics Process Automation (RPA) and covers basics of software based robotics, programming process automation using Ui Path Studio or similar packages, digitize and automate processes commonly encountered in industrial and business applications. Pre-requisites: Junior or Senior Standing:

**ITE 338 DIGITAL LOGIC (3 Hours)**

Prerequisite: ITE 111 112.

A study of single source transistor biasing, differential amplifier, diode-resistor gate, flip-flops, logic AND gate of AND & OR gates,, binary number encoders and decoders, R-s, T-D flip flops, ripple counters, programming a ripple counter, etc. (S)

**ITE 410 Robotics Systems (3 Hours)**

Prerequisite: Junior or Senior Standing.

Designing mobile robotic platforms; Building autonomous and remote-controlled educational robotics systems; Interfacing sensors; Interfacing vision and audio devices; Microcontroller developing boards and programming; Single board computer boards and programming; Robot Operating System (ROS); Object detection – OpenCV and Deep Learning; AI – obstacle navigation, pick and place objects.

**ITE 438 PROGRAMMABLE LOGIC CONTROLLER (3 Hours)**

Prerequisite: ITE 338 or Instructor's permission.

This course provides practical experience on PLC's through its operation, programming, and uses in the control of production, manufacturing, industrial, and other processes. (F)

**ITE 449 NETWORK THEORIES (3 Hours)**

Prerequisite: ITE 338.

A study of electric networks and analysis of the behavior of networks in terms of natural modes, or the natural frequencies of response due to arbitrary excitation. (F, S)

**ITE 450 ANALOGICAL COMMUNICATION SYSTEMS (3 Hours)**

Prerequisite: ITE 221, MATH 221.

Study of complete communications systems selected from broadcast radio, broadcast television, closed circuit television or radar, AM, FM and phase-shift modulation and demodulation techniques. (S)

**ITE 465 MICROPROCESSORS & APPLICATION (4 Hours)**

Prerequisite: ITE 221, 338.

Logical organization of single-chip microprocessors, their timing and interface requirements. Applications in the control of external devices. (F)

**ITE 466 MICROPROCESSOR TROUBLESHOOTING (3 Hours)**

Prerequisite: ITE 221, 338.

This course is designed for senior standing students to study professional techniques in microprocessor troubleshooting. Students will learn how to write sample programs for use in troubleshooting, troubleshoot bus, processor, and I/O failures by analyzing signals, and design testable microcomputer. (S)

**ITE 475 MICROPROCESSOR SOFTWARE/HARDWARE (3 Hours)**

Prerequisite: ITE 221, 338.

This course is designed for senior standing students with an overview of microcomputer systems in software, hardware and interface. Basic microcomputer hardware design at chip level, software programming at the machine language level, and interface to sensors, actuators, and external devices will be introduced. (S)

**ITE 476 REAL TIME SYSTEM DESIGN (3 Hours)**

Prerequisite: ITE 221, ITE 338, ITE 465, CSC 215.

The topics of this course include the general concepts of real-time systems, design and implementation techniques and specific examples. The instruction is divided into three parts. The first introduces the general concepts of real-time systems, the design and implementation process, with emphasis on the techniques useful for real-time applications. The third part is a detailed examination of specific system organization and their appropriate implementation techniques. (S)

## Industrial Electricity Lab (ITEL)

**ITEL 112 INTERMEDIATE ELECTRONICS LAB (1 Hour)**

Prerequisite: ITEL 111.

A laboratory course which covers network analysis, measurement of DC and AC current and voltage, power in AC circuits, resonance, RL circuits, RC circuits, and RLC circuits. (F, S)

**ITEL 221 DEVICE AND CIRCUITS LAB I (1 Hour)**

Prerequisite: ITE 111 112.

A laboratory course which studies oscilloscope operation, oscilloscope voltage calibration and frequency measurements, characteristics of an inductance, characteristics of a series RC circuits, RC time constants, characteristics of a capacitor, characteristics of a series RLC circuit, RF signal generator, parallel resonant circuit, diodes, and characteristics of amplifiers. (F)

**ITEL 338 DIGITAL LOGIC LAB I (1 Hour)**

Prerequisite: ITE 111 112.

A laboratory course which covers logic OR gate, logic NOT, AND gate, integrated circuit gates, half-adder circuit full-adder circuit, colpitt: Oscillator, and Karnaugh map, and triggered monostable multivibrator. (S)

**ITEL 449 NETWORKING LAB (1 Hour)**

Prerequisite: ITEL 338.

This course provides practical instruction on the networks connection and trouble shooting. Students will be introduced to telecommunications cabling technology and learn the systems used for distribution of data, voice, and video communications. This course will cover identification and application of appropriate connectors, cable types, safety concerns, and testing of systems. (F, S)

## Industrial Management (ITMA)

**ITMA 105 INDUSTRIAL SAFETY & MANAGEMENT (3 Hours)**

Designed to emphasize the importance of safety in an industrial community. (F, S)

**ITMA 325 INDUSTRIAL PSYCHOLOGY (3 Hours)**

Prerequisite: PSY 201. Designed to acquaint students with the study of human behavior as it relates to production of goods and services of our society. A study of psychology as it relates to the employees of American industries. (F, S)

**ITMA 328 THE AMERICAN INDUSTRY (3 Hours)**

This course presents practical and successful strategies for implementing the new system, procedures, practices, and cultural attitudes essential for becoming world-class competitive. (S)

**ITMA 410 1ST LINE SUPRVSN & FRMAN (3 Hours)**

A management development course for business, industrial, and institutional supervisors. The topics covered include motivation, leadership, decision-making and supervisory skills. (F, S)

**ITMA 411 INVENTORY MANAGEMENT (3 Hours)**

Deals primarily with inventory classifications, inventory control, optimum inventory, and feature trends in inventory management. (F, S)

**ITMA 420 LABOR & INDUSTRIAL RELATIONS (3 Hours)**

Prerequisite: ITMA 325.

Discussions of who individuals, groups, and organizations in unions, management, and government act as they do in industrial relations with emphasis on psychological and sociological factors. (S)

**ITMA 424 QUALITY CONTROL (3 Hours)**

Prerequisite: MNGT 250 (school of business).

The problem associated with improving design, specifications, and control of product quality. (S)

**ITMA 425 PLANT LAYOUT & MAT HANDLING (3 Hours)**

Prerequisite: ITD 114.

The fundamental theories, practices, and methods for the design of manufacturing facilities; materials handling equipment and services. (S)

## Industrial Manufacturing (ITMF)

**ITMF 340 HYDRAULICS FLUID POWER SYSTEMS (3 Hours)**

Prerequisite: ITMF 206 and 207.

This course involves the study of the principles and applications of hydraulics and pneumatics in manufacturing, and the design, construction and maintenance of fluid power systems. (S)

**ITMF 410 CNC-ROBOTICS (3 Hours)**

Prerequisite: ITD 114, 203.

To study the basic principles of computer numerical control and robotics, and to develop competencies in the use of microcomputer hardware and software in programming for manufacturing applications. (F)

## Industrial Technology (IT)

**IT 100 INTRO TO INDUSTRIAL TECHNOLOGY (1 Hour)**

A survey of the technology field as it relates to the academic background and opportunities for industrial technology graduates. (F, S)

**IT 300 INTERNSHIP/INDUSTRIAL EXPERIEN (3 Hours)**

Prerequisite: Junior standing or approval of academic advisor.

This course provides a supervised practical work experience with an approved industrial enterprise, coordinated by employer, faculty, and student. (F, S, Sum)

**IT 490 SENIOR CAPSTONE (3 Hours)**

Prerequisite: Senior standing.

This course is designed to give student experience in real work applications through project in business and industry that will encompass all the different subject areas covered in an area related to the student's concentration. (F, S)

## Infant and Toddler Management (CLIM)

**CLIM 271 INFANT & TODDLER FACILITY OPER (3 Hours)**

This course will prepare students to operate an infant and toddler facility according to national and state regulations. Students will be required to attend the Mississippi Early Learning Guidelines Directors Seminar, Mississippi State Department of Health's Childcare Licensure Directors Orientation, and complete a minimum of twenty (20) clock hours of classroom observation or instructions.

## Management (MNGT)

**MNGT 330 MANAGEMENT TO ORGANIZATIONS (3 Hours)**

A foundation course in management focusing on the principle functions and practices of management. Course focuses on most of the sub-disciplines of management. (F, S, Sum)

**MNGT 333 QUANTITATIVE BUSINESS ANALYSIS (3 Hours)**

Prerequisite: MNGT 330 and ECO 357.

This course is designed to introduce students to the quantitative approaches to management. Use of management science techniques; forecasting, decision making, inventory management, linear programming, network models and simulation; is emphasized to solve problems in all functional areas of business. (F, S)

**MNGT 334 SUPPLY CHAIN MANAGEMENT (3 Hours)**

An introduction to domestic and international Supply Chain Management. Topics include transportation warehousing, inventory control, materials handling and packaging, and plant and warehouse location decisions within and between firms. Emphasis on concepts and practices that provide firms with global competitive advantage.

**MNGT 350 BUSINESS COMPUTER APPLICATIONS (3 Hours)**

An introduction to computers as a tool for information processing and hands-on experience with the PC utilizing business application of word processing and presentation software. Business Computer Applications will emphasize database management applications as well as the use of electronic spreadsheets as practical tools for solving problems. (F, S, Sum)

**MNGT 351 MNGT INFORMATION SYSMS AND APP (3 Hours)**

This course provides an introduction to the role of computers and other information technologies in business. It provides instruction in both functional and conceptual computer literacy. After introducing concepts of software/hardware technology, database management and information systems, the course will devote special attention to current technological innovation in social and business environments. Topics also include security, privacy and ethical concerns related to network and internet technology. This course will emphasize the use of database and spreadsheet along with MIS projects, applications as practical tools for decision making and analyzing business activities.

**MNGT 353 PRODCTN&OPERATIONS MGMNT (3 Hours)**

Prerequisite: MNGT 333.

This course introduces concepts related to production and operations management. Specifically, the course covers product and service design, location, planning, process selection and capacity planning, facilities layout, design of work systems, material requirement planning, just-in-time systems, scheduling, and product management. (S)

**MNGT 416 ORGANIZATIONAL BEHAVIOR (3 Hours)**

Prerequisite: MNGT 330 and junior classification.

Organization theory and investigation of the impact that individuals, groups, and structure have on behavior within organizations. (F)

**MNGT 452 HUMAN RESRCE/PERSONNEL MANAGEM (3 Hours)**

Prerequisite: MNGT 330 and junior classification.

The administration of the human resource in organizations, including recruitment, selection, placement, training, motivation, performance appraisal, and compensation. Discussion of laws pertinent to managing personnel in organizations. (F)

**MNGT 458 STRATEGIC MANAGEMENT (3 Hours)**

Prerequisite: ACC 212, MNGT 330, ECO 212, FNGB 320, MKT 351, and senior classification.

Expressed and implied guides to behavior and action within the framework of the business organization including managerial implementation of policies and the appropriate enforcement of those guidelines. (F, S, Sum)

**MNGT 460 DATA COMMUNICATONS (3 Hours)**

Prerequisite: MATH 111 and MNGT 351.

This course is an advanced in-depth study of major concepts of computer networks and data communications and its components; hardware software, communication protocols, facilities, carriers, regulations and Management Information Systems. Topics include data communications networking, computer communications architectures and protocols as well as applications including Local Area Networks (LAN) and Wide Area Networks (WAN).

**MNGT 462 INTERNATNL BUS AND ENTREPNSHIP (3 Hours)**

This course provides an in-depth study of international business.

Most businesses today are impacted by globalization. Multinational corporations, as well as small and medium sized businesses face both opportunity and challenges in the international marketplace. This course helps students develop a global perspective on business and understand how strategies must be adapted to be successful in other contexts and cultures.

**MNGT 468 COLLECTIVE BARGAINING (3 Hours)**

Prerequisite: MNGT 330 and senior classification.

The study of labor movements, strikes, and arbitration of strikes and labor disputes. An historical perspective tied in with contemporary labor issues. (S)

**MNGT 472 MANAGERIAL LEADERSHIP (3 Hours)**

Prerequisite: MNGT 330 and senior classification.

This course focuses on the influencing function of management and draws heavily on behavioral science research and theories; how to motivate, help, guide, and coach employees for maximum performance; how to handle conflict situations; and how to effectively lead a multicultural workforce will be explored. (S)

**MNGT 482 BUSINESS ETHICS (3 Hours)**

Prerequisite: MNGT 330, and FNGB 201.

In-depth examination of the impact of business ethics on corporate decision making. The course will focus on the relationship between ethics and corporate governance. Students will examine ethical dilemmas in the workplace and the actions of corporations. (S)

## Management Information Systems (MIS)

**MIS 325 INTRO TO DATA COMMUNICATION (3 Hours)**

This course covers the following topics in data communication; transmission sources transmission receivers and transmission mediums through which digitized data, voice and images are transmitted within and between computer systems. The course will provide a detailed literacy overview of hardware, software, communication protocols, facilities, carriers, regulations and Management Information Systems as related to the transfer of digitized information.

## Mandarin Chinese (CH)

**CH 101 MANDARIN CHINESE (3 Hours)**

An introduction to the essentials of the language. Training in the four skills of listening, speaking, reading, and writing in the Mandarin Chinese language. May not be taken by native speakers.

**CH 102 MANDARIN CHINESE (3 Hours)**

An introduction to the essentials of the language. Training in the four skills of listening, speaking, reading, and writing in the Mandarin Chinese language. May not be taken by native speakers.

**CH 201 MANDARIN CHINESE (3 Hours)****CH 202 MANDARIN CHINESE (3 Hours)**

## Marketing (MKT)

**MKT 351 MARKETING MANAGEMENT (3 Hours)**

A foundational marketing course that introduces students to concepts such as customer value, customer behavior, the elements of the marketing mix (including digital marketing), global marketing concepts, marketing research, and marketing strategy to identify and meet the needs of target markets.

**MKT 432 ADVERTISING (3 Hours)**

Prerequisite: MKT 351.

Advertising as a communications tool in marketing management. Develop an understanding of the role of advertising under diverse marketing conditions. Emphasis will focus on problems of integrated advertising strategy in the firm's marketing program pertaining to media-selection, budgeting, production and layout, and measurement of effectiveness. Attention will also be given to the social and economic aspects of advertising. (F, S)

**MKT 436 RETAIL MGNT & MERCHANDNG (3 Hours)**

Prerequisite: MKT 351.

Profit planning and business control; buying, stock control, pricing, promotion; store location/layout organization, policies, systems; coordination of store activities. (F)

**MKT 438 MARKET RESEARCH (3 Hours)**

Prerequisite: MKT 351, ECO 357 and 358, or equivalent statistics courses.

Study of the role of research in marketing decision-making, the research process, including research designs, measurements, data analysis and interpretation. (F)

**MKT 440 CONSUMER BEHAVIOR (3 Hours)**

Prerequisite: MKT 351.

Survey of noteworthy contributions of the behavioral sciences to the understanding and prediction of consumer behavior. Contributions of various research techniques in the social sciences to the understanding of consumer purchasing and decision making processes, with particular attention to formal and informal influence patterns. Application of concepts to management of advertising, personal selling, pricing, and channels of distribution. (F)

**MKT 443 Digital Marketing (3 Hours)**

This course provides an understanding of theoretical, ethical, and regulatory issues associated with digital marketing strategies and equips students to construct and evaluate digital marketing campaigns.

**MKT 448 MARKETING CHANNELS (3 Hours)**

Prerequisite: MKT 351.

This course deals with the development of channels / functional and behavioral dimensions, environmental forces, power, conflict, and communication within the channels. Current and future trends in the development and management of channels are also treated. (S)

**MKT 450 PERSONAL SELLING (3 Hours)**

Prerequisite: MKT 351 and senior classification.

Personal Selling will recognize that today's salesperson faces a skeptical, well educated and sophisticated buyer, and that the professional sales person must be far more than a mere purveyor of goods and services. Professional selling will attempt to harmonize techniques and strategies with personality development, so that sales students might move toward their full potential in selling. (F)

**MKT 462 MKT POLICIES & STRATEGY (3 Hours)**

Prerequisite: MKT 351 and nine (9) hours of additional marketing courses, and senior classification.

Detailed consideration of process of formulating and implementing marketing policies. Major emphasis on markets, distribution channels, and product analysis. Problem approach utilized to develop student's analytical ability and to integrate all major areas of marketing. (S)

**MKT 466 INTERNATIONAL MARKETING (3 Hours)**

Prerequisite: MKT 351.

Institutions, functions, policies, and practices in international marketing. Relates marketing activities to market and marketing environment. (S)

## Math (MATH)

**MATH 001 DEVELOPMENTAL MATHEMATICS (3 Hours)**

This course is designed to improve the student's mastery of the fundamental operations of arithmetic, including whole numbers, fractions, decimals, mixed numbers and percentages. Emphasis is placed on number manipulation and applications relating to process.

**MATH 103 College Algebra with Corequisite Support (4 Hours)**

This course is a corequisite Math course in which the Intermediate Math course is coupled with the credit-bearing College Algebra course (IHL Policy 608E). Students will engage in extra time for mandatory labs and tutoring to help them master the content necessary to successfully complete MATH 103. Upon successfully completing this course, students will receive credit for the Intermediate Math and the College Algebra course. The course will consist of an accelerated refresher on linear equations and inequalities and their graphs, absolute value equations and inequalities, exponents, and polynomials, factoring, rational expressions, radicals, and quadratic equations; followed by an analysis of graphs and functions; polynomial functions; rational, power, and root functions; inverse, exponential, and logarithmic functions with integrated refresher content as necessary.

**MATH 111 COLLEGE ALGEBRA (3 Hours)**

Prerequisite: MATH 004 with a grade of C or better or the equivalent and Test Standing.

The function concepts, solving quadratic equations, graphing the quadratic function, inequalities, absolute value, absolute inequalities, Fundamentals theorem of Algebra, roots, factors, systems of equations and matrices, math induction and Binomial Theorem, arithmetic and geometric progressions, logarithms, complex numbers, partial fractions, and applications of all topics.

**MATH 112 PLANE TRIGONOMETRY (3 Hours)**

Prerequisite: MATH 111 with a grade of C or better.

Right and oblique triangular solutions, identities, trigonometric equations, systems of angular measurements, and applications.

**MATH 114 Quantitative Reasoning (3 Hours)**

Prerequisite: Test Standing

MATH 113 (3) Quantitative Reasoning. Quantitative Reasoning is a general education course designed for students in non-STEM degree pathways. The course empowers students' reasoning with data in relation to real-life situations, arts, health, science, and social issues. It enhances critical thinking and quantitative literacy while developing awareness about rules or principles guiding the understanding and evaluation of real-life problems. It is designed to teach students a wide range of general mathematics. Problem-solving and critical thinking skills, along with the use of technology, will be emphasized and reinforced throughout the course in solving applied problems. Topics include: algebra, concepts of set theory, modeling, geometry, measurement, probability, statistics, simple regression analysis, and making predictions with data.

**MATH 118 ALGEBRA II & TRIGONOMETRY (5 Hours)**

Prerequisite: Test Standing, MATH 004 or equivalent.

Polynomial equations, exponents and radicals, logarithms, quadratic equations, inequalities, complex numbers, permutations and combinations, probability, determinants, simultaneous linear equations, induction, binomial theorem, progressions and series, triangular solutions, identities, trigonometric equations, systems of angular measurement applications.

**MATH 217 INTRODUCTORY FINITE MATH (3 Hours)**

Prerequisite: MATH 111.

Introductory ideas for students of education, compound statements, sets and subsets, partitions and counting, elementary probability theory.

**MATH 221 CALCULUS I INDUST OR BUS (3 Hours)**

Prerequisite: MATH 111.

Functions, limits, continuity, differentiation, applications, basic analytic geometry, algebraic, exponential and logarithmic functions, integration, applications, series and sequences, improper integral. Specific applications.

**MATH 226 CONCEPTS & STRUCS OF MATH I (3 Hours)**

Prerequisite: MATH 111 with a grade of  $\geq C$  or better.

Study of various numeration systems, rational and real numbers, fraction and decimal algorithms, ratios, percentages, consumer mathematics, introduction to problem-solving and logic, use of patterns and Venn diagrams.

**MATH 241 CALCULUS I WITH LABORATORY (3 Hours)**

Functions, limits, continuity, differentiation, limiting forms, applications, properties of continuous functions, analytical geometry and integration. The laboratory component is designed to reinforce the lecture component with activities requiring the use of technology in the form of computers with selected software and graphing utilities.

**MATH 242 CALCULUS II WITH LABORATORY (3 Hours)**

**MATH 243 CALCULUS III WITH LABORATORY (3 Hours)**  
Infinite Sequences and Series, Tests of Convergence or Divergency, Power Series, Vectors and the Geometry of Space, Vector Valued- Functions, Partial Derivatives: Chain rule, Directional Derivatives, Gradient, Tangent Planes and Differentials. The laboratory component is designed to reinforce the lecture component with activities requiring the use of technology in the form of computers with selected software and graphing utilities.

**MATH 244 CALCULUS IV WITH LABORATORY (3 Hours)**

Continuation of Functions of several variables and partial differentiation; multiple integrals, vector calculus and integration in vector fields. The laboratory component is designed to reinforce the lecture component with activities requiring the use of technology in the form of computers with selective software and graphing utilities.

**MATH 251 FINITE MATHEMATICS I (3 Hours)**

Prerequisite: MATH 111 or Department approval.

Compound statements, sets and functions, probability theory, elementary linear algebra, convex sets, finite Markov chains, continuous probability theory.

**MATH 271 ELEMENTARY STATISTICS I (3 Hours)**

Prerequisite: MATH 112.

Introduction, frequency distributions, location measures, variation, symmetry, skewness, peakedness, index numbers, probability, theoretical distributions, sampling, estimation, tests of hypotheses, non-parametric tests, linear regression, coefficient of correlation, time series analysts.

**MATH 303 INT TO SET THEO & LOGC I (3 Hours)**

Prerequisite: MATH 231, with a grade of  $\geq C$  or better.

Sets and relations, natural number sequence, extension of natural number to reals, logic, informal axiomatics, Boolean algebra, interval and set theory, algebraic theories, first order theories.

**MATH 306 ELEMENTARY CONCEPTS OF GEOMETR (3 Hours)**

Prerequisite: Department approval.

Basic notions of lines, angles, triangles, circles and proofs. Stress is placed on synthetic methodology and reasoning.

**MATH 307 PROBLTY & STATISTICS/ENGINEERG (3 Hours)**

Prerequisite: MATH 232.

Introduction to concepts of probability and statistics required to solve problems in various disciplines; mathematical basis for probability and statistics includes axioms of probability, continuous sampling distributions, and discrete probability, hypothesis testing, confidence intervals, probability estimations for risk assessment, data processing and statistical inference, statistical techniques of data analysis, simple and multiple regression model development; stochastic processes, emphasis is on the application of probability, statistics and reliability to rational decision making, data analysis and model estimation in engineering context.

**MATH 311 ABSTRACT ALGEBRA I (3 Hours)**

Prerequisite: MATH 303.

Basic concepts of modern algebra, preliminaries, elementary ideas of groups, rings, integral domains and fields.

**MATH 321 MODERN GEOMETRY I (3 Hours)**

Prerequisite: MATH 232.

Euclidean, non-Euclidean, projective and affine geometrics with emphasis on the appropriate postulates and the postulational method. Transformation theory.

**MATH 331 LINEAR ALGEBRA & MATRIX THEORY (3 Hours)**

Prerequisite: MATH 303.

A theoretical study of equations, matrices, vector spaces, inner product spaces linear transformations bilinear and quadratic forms, and eigenvalues.

**MATH 351 ADVANCED CALCULUS I (3 Hours)**

Prerequisite: MATH 233.

Sets and functions, continuity, integration, convergence, differentiation, and applications to geometry and analysis, differential geometry, and vector calculus.

**MATH 355 PROBABILITY&STATISTICS I (3 Hours)**

Prerequisite: MATH 233.

Random variables, conditional probability and stochastic independence, special distributions.

**MATH 356 PROBABILITY & STATS II (3 Hours)**

Prerequisite: MATH 355.

Estimations, order statistics, limiting distributions, statistical hypotheses, variance, normal distribution theory, point and interval estimation, sampling, regression and correlation.

**MATH 368 DIFFERENTIAL EQUATIONS (3 Hours)**

Prerequisite: MATH 233.

Introduction to differential equations, first-order differential equations, higher-order differential equations, series solutions of linear equations, the Laplace transform and systems of linear first-order differential equations.

**MATH 399 PROBLM SLVG FOR PRE S MATH TEA (0 Hours)**

This course includes topics pertinent to success in problem solving for Secondary Mathematics Education majors: arithmetic and basic algebra, geometry, trigonometry, analytic geometry, functions and their graphs, calculus, probability and statistics, discrete mathematics, linear algebra, computer science, and mathematical reasoning and modeling. In addition to review of content that pertains to the aforementioned topics, students will investigate test taking skills and methods of problem solving. Underlying focus will be to develop students' mathematical communication skills through regular class participation and peer evaluation activities.



**MATH 402 MTHDS OF TCHNG MATH IN SECD SC (3 Hours)**

Prerequisite: Department approval.

Materials and sources of value to prospective teachers of high school, middle school and junior high school mathematics, reports, current articles, state-adopted textbooks, yearbooks and histories, special problems in teaching geometry and algebra.

**MATH 403 SEMINAR IN MATHEMATICS (3 Hours)**

Prerequisite: Department approval.

The provisions to the student of an opportunity to discuss pertinent trends and ideas in mathematics, and to evaluate the experience he has had through study and practice during his previous years of training in mathematics.

**MATH 404 NMBR THEORY&CRYPTOGRAPHY (3 Hours)**

Prerequisite: MATH 331 or department approval.

Topics in elementary number theory, finite fields, and quadratic residues. Cryptography public key, primality and factoring, elliptic curves.

**MATH 411 ABSTRACT ALGEBRA II (3 Hours)**

Prerequisite: MATH 311.

Groups rings, integral domains, modules, vector spaces, fields, linear transformations, special topics in group, ring, and field theory.

**MATH 415 PARTIAL DIFF EQUATIONS I (3 Hours)**

Prerequisite: MATH 368.

Heat equations, Laplace's equation, Fourier series, wave equation, Sturm-Liouville eigenvalue problems, nonhomogeneous problems, method of Green's functions, infinite domain problems and the methods of characteristics for wave equations.

**MATH 431 REAL ANALYSIS I (3 Hours)**

Prerequisite: MATH 233.

Real number system, basics, numerical sequences and series, continuity, differentiation, Riemann-Stieltjes integral, sequences and series of functions, special series, functions of several variables, the Lebesgue theory.

**MATH 435 THE TEACHING OF MATHEMATICS (3 Hours)**

Prerequisite: Department approval.

Theory of arithmetical meanings, learning and rational, applied meanings, current trends.

**MATH 436 TEACHNG OF ARITHMETIC II (3 Hours)****MATH 441 COMPLEX ANALYSIS I (3 Hours)**

Prerequisite: MATH 233.

Complex numbers and representations, point sets, sequences, functions, analytic functions of one complex variable, elementary functions, integration, power series, calculus of residues, conformal representation, applications.

**MATH 451 GENERAL TOPOLOGY I (3 Hours)**

Prerequisite: MATH 303.

Elementary set theory, ordinals and cardinals, topological spaces, cartesian products, connectedness, special topologies, separation and covering axioms, metric spaces, convergence, compactness, function spaces, complete spaces, elementary homotopy and homology theory.

**MATH 466 OPERATIONS RESEARCH (3 Hours)**

Prerequisite: MATH 355.

Learning programming, network analysis, PERT-CPM, dynamic programming, queuing theory and decision analysis.

**MATH 493 HIST IN MATH CLASSROOM I (3 Hours)**

Prerequisite: Department approval.

Historical development of numbers and numerals, computation, geometry, algebra, trigonometry, calculus, modern mathematics.

# Meteorology (MET)

**MET 200 INTRO TO METEOROLOGY (3 Hours)**

Non-mathematical treatment of the fundamentals of meteorology, effects of weather and climate on man and his activities.

**MET 209 INTRO TO PROFSNL METEOROLOGY (1 Hour)**

Pre- or Co-requisite: MET 200. A seminar course in which a variety of professional specialties within the area of the atmospheric sciences will be explored by the students. Wherever possible, visiting professionals will be invited to present materials about their specialty in the meteorology curriculum.

**MET 210 CLIMATOLOGY (3 Hours)****MET 270 COMPUTNAL DATA ANLYS VISUALI (3 Hours)**

This course is an introduction to scientific data analysis and visualization. It focuses on Fortran programming language and MatLab and NCAR Command Language (NCL) visualization software. This course will be helpful for students who are research oriented or intend to pursue graduate studies! The goal of this class isto provide a hands-on experience of an understanding of statistical analysis of environmental data, both in the space, time and special domain. Ideally at the end of the course students will have developed a series of computer programming skills and statistical skills that will aid them in their abilityto analyze, interpret, and model research data. This course is structured around two tracks: computer programming and data visualization. Some knowledge of probability and statistics, and linux commands would be beneficial. However, a background review of concepts and notations will be provided.

**MET 303 MEASUREMENTS & OBSERVATIONS (3 Hours)**

Prerequisite: MET 200.

Practical experiences in weather observing, gathering and coding meteorological data.

**MET 311 GENERAL METEOROLOGY (3 Hours)**

Pre- or Co-requisite: MATH 231. Terrestrial energy budget; general circulation; atmospheric motion, fronts and cyclones, mesoscale dynamics, application to weather forecasting and modifications.

**MET 321 ATMOSPHERIC THERMODYNAMICS (3 Hours)**

Prerequisite: MET 311.

Thermodynamic properties of the atmosphere, hydrostatic equilibrium and stability.

**MET 341 DYNAMIC METEOROLOGY (3 Hours)**

Prerequisite: MET 311, 321, and MATH 232.

Physical and Mathematical models of atmospheric motion are developed from the basic equations of motion.

**MET 411 PHYSICAL METEOROLOGY (3 Hours)**

Prerequisite: MET 311, and 321.

Transmission of electromagnetic and sound waves in the atmosphere; the physics of clouds and precipitation; electrical properties of the atmosphere.

**MET 421 INTRO TO SYN METEOROLOGY (3 Hours)**

Prerequisite: MET 341, MET 210, MET 303, MET 303L, MET 399, and MATH 233.

The course emphasizes the synergy between dynamic meteorology, observations, and numerical model simulations for understanding the processes influencing day-to-day weather changes. Although we will mainly consider large-scale mid-latitude weather systems, mesoscale and tropical weather patterns will also be discussed.

**MET 431 NUMERICAL METHODS (3 Hours)**

Prerequisite: MET 270, MET 368 369 341, MET 421, and MATH 361.  
Application of quantitative and numerical techniques to solution and evaluation of various equations and systems of equations relating to the atmosphere. Applications to various areas of meteorology, with an emphasis on requirements for numerical weather prediction models.

**MET 435 MESOSCALE METEOROLOGY (3 Hours)****MET 472 RES METHD IN METEOROLOGY (1 Hour)**

Prerequisite: Consent of department.  
Special problems in meteorology based on research or literature survey terminating with a comprehensive written report. (D)

**MET 487 PHYL & DYNMC CLIMATOLOGY (3 Hours)**

Prerequisite: MET 341, and 411.  
Physical principles underlying the variations and changes in climate; climate controls; elements of microclimatology; interpretation of selected regional climates. (D)

**MET 491 HYDROLOGY (3 Hours)****MET 492 SEMINAR IN METEOROLOGY (1-3 Hours)**

Prerequisite: Consent of department.  
Meetings for presentation and discussion of topics in meteorology by staff members and students of recent contributions published in current periodicals and of original research. (D)

**MET 499 SEMINAR IN ATMOSPHERIC SCIENCE (1 Hour)**

Various topics will be discussed and presented by students, faculty, and visitors. All meteorology majors are expected to enroll in the appropriate course numbers as assigned by their advisors.

## Meteorology Lab (METL)

**METL 200 ATMOSPHERIC PROC & PTRNS LAB (1 Hour)****METL 219 WEATHER ANALYS/FORECASTG LAB I (1 Hour)****METL 299 WEATHER ANALS/FORECASTG LAB II (1 Hour)****METL 303 MEASUREMENTS & OBSRVTNS LAB (1 Hour)****METL 399 WEATHER ANAL/FORECASTG LAB III (1 Hour)****METL 421 SYNOPTIC METEOROLOGY LAB (2 Hours)**

## Military Science (MS)

**MS 101 FUND OF LDRSHP & MGNT I (1 Hour)**

Co-requisite: MS 103. Introduction to officership with emphasis on military customs and traditions, time management, stress management, and physical fitness. Introduction to principles of leadership with emphasis on character and competence, values and ethics, and values of the U.S. Army.

**MS 102 FUND OF LDRSHP & MGNT II (1 Hour)**

Co-requisite: MS 104. Builds upon leadership principles emphasizing oral and written communications, the problem-solving process, goal setting, active listening, assertiveness skills, counseling methods and nutrition. Builds upon principles of officership with emphasis on life the U.S. Army.

**MS 103 LEADERSHIP LABORATORY (1 Hour)**

Leadership Lab.

**MS 104 LEADERSHIP LABORATORY (1 Hour)**

Leadership Lab.

**MS 201 INDIVIDUAL LEADERSHIP STUDIES (2-3 Hours)**

Co-requisite: MS 203. Building on leadership principles with emphasis on communication, personal development, physical well-being, team building, problem solving, and reasoning. Introduction to the ROTC Distance Learning Enhancement Skills Training Program with special emphasis on math, English, and reading skills. COMPRESSION COURSE (3): Co-requisite: MS 203. May substitute for MS 101 and 201 by compressing them together. Course is designed for sophomore student who has not had previous military science classes, basic training, or high school JROTC.

**MS 202 LEADERSHIP AND TEAMWORK (2 Hours)**

Co-requisite: MS 204. Building of leadership principles with emphasis on communication, personal development, physical well-being, team building, problem solving, and reasoning. Continued development of oral and written communication skills. COMPRESS COURSE (3 hrs): Co-requisite: MS 204. May substitute for MS 102 and 202 by compressing them together. Course is designed for sophomore student who has not had previous military science classes, basic training, or high school JROTC.

**MS 203 LEADERSHIP LABORATORY (1 Hour)**

Leadership Lab.

**MS 204 LEADERSHIP LABORATORY (1 Hour)**

Leadership Lab.

**MS 300 LEADERSHIP TRAINING CAMP (2 Hours)**

Prerequisite: Students must have minimum of 2 years of college remaining.

ROTC Basic Camp is a six-week summer training and evaluation class conducted on an active Army base. Students learn fundamental military skills and develop the ability to lead others. Students earn approximately \$761 while learning fundamental leadership skills with hundreds of other college students from universities throughout the United States and Puerto Rico. This is a substitute course for MS 100 and 200 level courses. Qualifies students for MS 300 level courses.

**MS 301 LEADERSHIP AND PROBLEM SOLVING (3 Hours)**

Introduction to the Leadership Development Program and Self Assessment. Builds upon leadership principles with emphasis on physical fitness, wellness, nutrition, and training a team. Develops Officership focusing on tactics, the principles of war, and offensive and defensive operations utilizing tactical analysis case studies. Develops Officership with emphasis on the problem solving process utilizing the Troop Leading procedures, Officer duties, and the role and organization of the Army values, spiritual needs, consideration of others, and ethical decision making. Qualified Students may receive up to \$3,600 stipend annually. Course includes mandatory field training exercises.

**MS 302 LEADERSHIP AND ETHICS (3 Hours)**

A continuation of MS 301, where Students study, practice, and apply the fundamentals of Army leadership, Officership, Army values and ethics, personal development, and small unit tactics at the patrol/platoon level. At the conclusion of this course, students will be capable of planning, coordinating, navigating, motivating and leading a 24-person patrol in the execution of a tactical mission during a classroom practical exercise, a leadership lab, or during a situational training exercise (STX) in a field environment. Course includes instruction in platoon operations, stability and support operations, and garrison orders. Participation in leadership lab is required.

**MS 303 LEADERSHIP LABORATORY (1 Hour)**

Leadership Lab.

**MS 304 LEADERSHIP LABORATORY (1 Hour)**

Leadership Lab.

**MS 400 LDRSHIP DVLPMNT & ASSESMT CAMP (3 Hours)**

LDAC is a six-week summer training and evaluations class conducted on an Active Army base. Students must attend LDAC during the summer upon completion of MS 302. Students are placed in leadership positions and evaluated on their ability to plan, direct, and execute tasks while operating in challenging and stressful environments. Student will earn approximately \$800 for attendance at LDAC.

**MS 401 ADAPTIVE LEADERSHIP (3 Hours)**

Prepares student for commissioning as a Second Lieutenant in the United States Army by focusing on career choices, life in the Army, training the force, mission-essential task list development, training execution and assessment, active listening and feedback, personal and developmental counseling, stress management, social exchange theory, expectancy theory, organizational systems and culture and organizational change culminating in a leadership simulation practical exercise. Qualified students may receive up to \$4,000 stipend annually. Course includes mandatory field training exercises.

**MS 402 OFFICERSHIP (3 Hours)**

Comprehensive senior leadership project that focuses on values and ethics emphasizing assessment, establishment, and improvement of the ethical climate, the foundation, regulations, and codes of military law, and the law of war, the tactical, operational, and strategic levels of war, military operations other than war, personnel administration, maintenance and supply management financial planning, counseling practicum, leadership lessons and developing a Leadership Vision. Qualified students may receive up to \$4,000 stipend annually. Course includes mandatory field training exercises.

**MS 403 LEADERSHIP LABORATORY (1 Hour)**

Leadership Lab.

**MS 404 LEADERSHIP LABORATORY (1 Hour)**

Leadership Lab.

**MS 450 IND STUDY (THE ARMY PROFESSION (3 Hours)**

Comprehensive senior leadership project that focuses on the Army Profession and the Army Ethic. It will expand the discussion on the Army Profession's dual character as a military department of the United States Government and, more importantly, a military profession; identify two mutually supportive communities of practice of the profession: the Profession of Arms (Regular Army, Army National Guard, and Army Reserve forces) and the Army Civilian Corps; and introduce the five essential characteristics that legitimize the Army as a profession: trust, military expertise, honorable service, esprit de corps, and stewardship of the profession. The course will define membership and certification of Army professionals in competence, character, and commitment. It will describe Army culture, describes the Army Ethic, and lays the groundwork for developing the moral identity of the Army Profession and its professionals. Course includes mandatory field training exercises.

## Music (MUS)

**MUS 001 BASIC APPLIED (1 Hour)**

Private instruction in the basic concepts of piano, vocal, or instrumental performance. For students who need to be strengthened in the fundamental principles and techniques of their applied major.

**MUS 002 BASIC APPLIED (1 Hour)**

Private instruction in the basic concepts of piano, vocal, or instrumental performance. For students who need to be strengthened in the fundamental principles and techniques of their applied major.

**MUS 011 INTRO TO MUSIC THEORY (2 Hours)**

Special study for students who plan to major in music and do not meet standards for MUS 111. Designed to strengthen basic musicianship areas as needed.

**MUS 100 CAREERS IN MUSIC (2 Hours)**

A study of alternative careers to teaching in the field of music. Current needs, future trends, economic considerations, preparation of courses of study, geographical advantages, special characteristics and preparation required.

**MUS 101 BASIC KEYBOARD (1 Hour)**

Beginning class piano instruction. Principal chords in all keys; ear training, rhythm, harmonization and transposition of melodies suitable for grades K - 6.

**MUS 102 BASIC KEYBOARD (1 Hour)**

Beginning class piano instruction. Principal chords in all keys; ear training, rhythm, harmonization and transposition of melodies suitable for grades K - 6.

**MUS 111 MUSIC THEORY (2 Hours)**

Prerequisite: Theory Placement Examination.

Functional study of basic music theory including notation, rhythm, scales, modes, intervals, sight-singing, diction, part-writing, composition and performance style practices, and development of basic aural skills. Laboratory experience required.

**MUS 112 MUSIC THEORY (2 Hours)**

Prerequisite: MUS 111.

Continuation of MUS 111 with emphasis on the application of common elements of music to rhythmic, melodic and harmonic diction, three and four part writing, aural and visual analysis. Laboratory experience required.

**MUS 114 APPLIED PIANO (2 Hours)**

Prerequisite: Freshman standing on piano auditions.

All major and minor scales and arpeggios, technical exercises, selections from Mikrokosmos and selected repertoire from Baroque, Classical, Romantic and Contemporary periods.

**MUS 115 APPLIED PIANO (2 Hours)**

Prerequisite: Freshman standing on piano auditions.

All major and minor scales and arpeggios, technical exercises, selections from Mikrokosmos and selected repertoire from Baroque, Classical, Romantic and Contemporary periods.

**MUS 117 VOICE CLASS (1 Hour)**

Essential elements of artistic singing, including effective methods of breath control, formation and color of vowels, resonance, phrasing, diction, and development of effective singing techniques.

**MUS 119 JAZZ VOCAL TECHNIQUES I (1 Hour)****MUS 124 APPLIED MAJOR PIANO (3 Hours)**

In-depth study of piano performance techniques, including all major/minor scales, arpeggios, chord progressions, and selected etudes. Detailed study of representative keyboard works all periods. Two one-hour lessons and nine hours minimum practice weekly. Audition required.

**MUS 125 APPLIED MAJOR PIANO (3 Hours)**

In-depth study of piano performance techniques, including all major/minor scales, arpeggios, chord progressions, and selected etudes. Detailed study of representative keyboard works all periods. Two one-hour lessons and nine hours minimum practice weekly. Audition required.

**MUS 133 COMPOSITION (2 Hours)**

Exploration and understanding methods by which music is composed, study of non-traditional musical styles, manipulation of common elements in traditional and nontraditional ways. Creative using basic concepts in harmony, melody, and form. Student is expected to complete 1 piece per semester for solo instrument and/or duo.

**MUS 190 JAZZ COMBO I (0.5 Hours)****MUS 191 JAZZ COMBO I (0.5 Hours)****MUS 200 RECITAL HOUR (0 Hours)****MUS 202 WORLD MUSIC CULTURES (3 Hours)****MUS 203 MUSIC FOR CHILDREN (3 Hours)**

Prerequisite: MUS 201.

Study of philosophy, aims, appropriate musical experiences, materials and methods; application of skills and techniques of teaching music to elementary school children. For prospective elementary school teachers.

**MUS 205 MUSIC APPRECIATION (3 Hours)**

Study of music designed to provide the general student with knowledge and understanding of the history, structure, and style of various types of music literature and development of listening skills.

**MUS 207 KEYBOARD SKILLS (3 Hours)**

Prerequisite: MUS 212.

Applied experience for music communication skills: sight-reading scores, improvisation, accompanying, transposing and ensemble playing. Additional master class laboratory required.

**MUS 208 DICTION FOR SINGERS (3 Hours)****MUS 210 JAZZ IMPROVISATION (2 Hours)****MUS 211 MUSIC THEORY (2 Hours)**

Prerequisite: MUS 112.

More advanced study in basic musicianship including altered chords, modulation to near-related keys, partwriting, development of aural skills, stylistic analysis and compositional techniques. Laboratory experience required.

**MUS 212 MUSIC THEORY (2 Hours)**

Prerequisite: MUS 211.

Advanced study in basic musicianship including ninth, eleventh and thirteenth chords, modulation to distant keys, and continued development of aural skills, stylistic analysis and compositional techniques. Laboratory experience required.

**MUS 214 APPLIED PIANO (2 Hours)**

Prerequisite: MUS 115.

All scales, 3rds, 6ths, 10ths, dominant 7th and diminished 7th arpeggios; advanced studies including Mikrokosmos; advanced repertoire including suites, sonatas and preludes from all major historical periods.

**MUS 215 APPLIED PIANO (2 Hours)**

Prerequisite: MUS 115.

All scales, 3rds, 6ths, 10ths, dominant 7th and diminished 7th arpeggios; advanced studies including Mikrokosmos; advanced repertoire including suites, sonatas and preludes from all major historical periods.

**MUS 217 JAZZ HISTORY (2 Hours)****MUS 218 JAZZ APPRECIATION (3 Hours)**

Study of music designed to provide the general student with knowledge and understanding of the development of jazz music from its African origins to its present status as an organized American musical art form and the contributions of jazz musicians and the development of jazz music listening skills.

**MUS 219 JAZZ VOCAL TECHNIQUES II (1 Hour)**

Student of organ literature, style analysis, historical and practical organ design. Comparison of electronic, computerized and pipe organs.

**MUS 221 STRING CLASS (1 Hour)**

The study of application of fundamentals of playing and teaching string instruments including correct tone production, bowing techniques and care of the instruments. Laboratory experience required.

**MUS 224 APPLIED MAJOR PIANO (3 Hours)****MUS 225 APPLIED MAJOR PIANO (3 Hours)**

Prerequisite: MUS 125.

Continued in-depth study of piano performance technique including all major/minor scales in various rhythms and touches, diminished 7th and dominant 7th arpeggios, chord progressions and selected Etudes. Continued detailed study of representative keyboard works of all periods. Two one-hour lessons and nin hours minimum practice weekly. Proficiency examination at end of Sophomore year.

**MUS 226 INTRODUCTN TO MUSIC TECHNOLOGY (3 Hours)**

A survey of computer hardware, software, and other electronic devices as they relate to computer generated music. Topics include computer basics, MIDI sequencing, music notation, database building, and internet resources for musicians.

**MUS 230 JAZZ/COMMERCIAL PIANO SK (1-3 Hours)**

Basic jazz keyboard skills. Keyboard realization of jazz harmony with typical idiomatic voicing.

**MUS 231 JAZZ/COMMERCIAL PIANO (1 Hour)**

Basic jazz keyboard skills. Keyboard realization of jazz harmony with typical idiomatic voicing.

**MUS 232 Introduction to Music Industry (3 Hours)**

A multidisciplinary approach to an introductory survey of the music industry. This includes the recording industry, entertainment law, arts management, and emerging fields relevant to the ever changing music industry.

**MUS 233 COMPOSITION (2 Hours)**

In addition to developing compositional abilities, experiences will include the development of skills needed to evaluate music which further explorations of various aspects in composition are encouraged. Student is expected to complete 1 piece per semester for trio and/or quartet including voice.

**MUS 281 INTRO TO MUSIC SEQUENCING (3 Hours)**

Prerequisite: Ability to read music; instrumental keyboard competency. Study of the basic components of MIDI (Musical Instrumental Digital Interface) sequencing technology; synthesizer and sequencer capabilities; sequence recording and editing.

**MUS 282 INTRODUCTION TO MUSIC NOTATION (3 Hours)**

Prerequisite: Ability to read music; instrumental keyboard competency. Introduction of the basic concepts of music notation using computer software focusing on the FINALE application from CODA Music Technology.

**MUS 293 JAZZ IMPROVISATION II (2 Hours)**

The study of jazz chord progressions including the "blues," rhythm changes and jazz standards incorporating basic jazz voice leading techniques, non-harmonic tones, a jazz chord to scale applications, advanced jazz ear training and an introduction to transcribing jazz improvisational solos.

**MUS 302 MUSIC IN ELEMENTARY SCHOOL (3 Hours)**

Prerequisite: Music major and junior standing.

Philosophy, aims, and principles of music teaching and learning; content, methods and materials for music teaching; creative approaches to the development of musical concepts in elementary school children.

**MUS 303 MUSIC IN THE SECONDARY SCHOOL (3 Hours)**

Prerequisite: MUS 302.

Philosophy, basic concepts and principles of music teaching and learning in the secondary school. Emphasis on content, techniques and materials for effective program building and implementation.

**MUS 305 Music Classroom Management and Effective Learning Environments (3 Hours)**

Prerequisite: , MUS 322; music majors only.

() This course explores theories of various models of discipline that enhance student motivation, classroom management in music settings. It is focused on the development of understanding the needs of diverse learners and creating a positive atmosphere for positive learning. Further this course will focus on the development of values, confidence, assertiveness skills, and decision-making skills in classroom management. Development of a comprehensive management plan for first year teaching. Includes a field experience or alternative component.

**MUS 311 FORM & ANALYSIS (3 Hours)**

Prerequisite: MUS 212.

Analysis of forms and styles representative of works from the Renaissance period to the present.

**MUS 312 COUNTERPOINT (3 Hours)**

Prerequisite: MUS 311.

Study of model, eighteenth century and contemporary counterpoint with experiences in writing. Required for Bachelor of Music students, elective for others.

**MUS 313 JAZZ THEORY (3 Hours)****MUS 314 APPLIED PIANO (1-2 Hours)**

Prerequisite: MUS 215.

Advanced technical studies; detailed study of Bach or Handel Suites, compositions by Schubert, Chopin, Brahms, Mendelssohn or Liszt and representative 20th century repertoire. Junior recital at 315B level.

**MUS 315 APPLIED PIANO (2 Hours)**

Prerequisite: MUS 215.

Advanced technical studies; detailed study of Bach or Handel Suites, compositions by Schubert, Chopin, Brahms, Mendelssohn or Liszt and representative 20th century repertoire. Junior recital at 315B level.

**MUS 319 CHAMBER MUSIC (3 Hours)**

Prerequisite: MUS 322.

Study of the historical background, literature, media, forms and styles of ensemble music, including small group rehearsals for instrumentalists, vocalists, and pianists.

**MUS 321 MUSIC HISTORY (3 Hours)**

Prerequisite: MUS 112.

A chronological and comparative study of the historical development of musical practices, forms and styles from Antiquity to the Baroque era.

**MUS 322 MUSIC HISTORY (3 Hours)**

Prerequisite: MUS 321.

Continuation of MUS 321 with emphasis on the literature, forms, styles and practices of music in the Baroque era to the present time.

**MUS 323 MUSIC HISTORY (3 Hours)**

Elective course designed to study the various forms, styles, media and techniques utilized in music on the present time.

**MUS 324 APPLIED MAJOR PIANO (3 Hours)**

Prerequisite: MUS 225.

Advanced indepth study of piano performance techniques and advanced Etudes. Continued detailed study of representation works of all periods and preparation for a Junior Recital. Two one-hour lessons and nine hours minimum practice weekly.

**MUS 325 APPLIED MAJOR PIANO (3 Hours)**

Prerequisite: MUS 225.

Advanced indepth study of piano performance techniques and advanced Etudes. Continued detailed study of representation works of all periods and preparation for a Junior Recital. Two one-hour lessons and nine hours minimum practice weekly.

**MUS 333 CONDUCTING (2 Hours)**

Elements and techniques of conducting; stylistic interpretation; choral, band and orchestral score reading; rehearsal techniques, individual practice in conducting performance groups.

**MUS 337 BRASSWIND CLASS (1 Hour)**

Student of the origin and development of brasswind instruments and development of fundamental performance proficiency on one or more brass instruments. Elective.

**MUS 338 WOODWIND CLASS (1 Hour)**

Study of the origin and development of woodwind instruments and development of fundamental proficiency on one or more woodwind instruments. Elective.

**MUS 339 PERCUSSION CLASS (1 Hour)**

Study of the origin and development of percussion instruments and development of fundamental performance proficiency on basic percussion instruments. Elective.

**MUS 380 JAZZ COMBO III (0.5 Hours)****MUS 381 ADVANCED MUSIC SEQUENCING (3 Hours)**

Prerequisite: MUS 223, 280, 281, and 282.

This course will center around the development of advanced sequencing projects using CAKEWALK'S SONOR and similar sequencing software programs. Projects will be based on knowledge learned in the Introduction to Music Sequencing course and will be major in scope.

**MUS 382 ADVANCED MUSIC NOTATION (3 Hours)**

Prerequisite: MUS 282.

This course is a practical study of music notation with an emphasis on the application of recent computer technology to traditional notational practice. Advanced concepts of music notation and using computer software will be explored in detail using FINALE and SIBELIUS notation software programs.

**MUS 383 DIGITAL AUDIO AND VIDEO (3 Hours)**

Prerequisite: MUS 281 and 381.

A comprehensive introduction to the techniques of generating and manipulating electronic imagery (video) by means of digital instrumentation. Study also includes digital video format standards, the principles of videotape recording, replay and editing, in addition to basics of sound including stereo and digital audio, and the synchronization of audio and video files.

**MUS 392 JAZZ IMPROVISATION III (2 Hours)****MUS 393 JAZZ IMPROV IV (2 Hours)**

The study of jazz improvisational techniques, concepts and practice methods used by jazz artists to gain improvisational skills techniques and how to apply these skills to performance on selected jazz repertoire. Also, develop advanced skills in transcribing jazz solos.

**MUS 407 INSTRUMENTAL PEDAGOGY (3 Hours)**

**MUS 408 PIANO PEDAGOGY (3 Hours)**

Prerequisite: MUS 325.

Designed to teach the student technical skills needed for piano studio instruction and to examine teaching materials from various periods for the beginning, intermediate and advanced piano student.

**MUS 409 PIANO PEDAGOGY (3 Hours)**

Prerequisite: MUS 408.

Practical teaching of beginning intermediate and advanced pupils in piano. Application of technical skills and materials studied in MUS 408 and 409 to instruction of piano students.

**MUS 411 VOCAL ARRANGING (2 Hours)**

Prerequisite: MUS 311 or equivalent.

Arranging and adapting scores for small and unusual groups of vocal combinations.

**MUS 414 APPLIED PIANO (2 Hours)**

Prerequisite: MUS 315.

Preparation for and presentation of senior recital. Selection of compositions from Baroque to Twentieth Century forming a well-balanced program.

**MUS 415 APPLIED PIANO (3 Hours)**

Prerequisite: MUS 414.

Advanced piano study beyond the senior recital level. Elective.

**MUS 420 JAZZ PEDAGOGY/METHODS (3 Hours)**

Techniques for the effective organization, administration and implementation of the jazz studies program in the school and private studio.

**MUS 421 PIANO METHODS & MATERIALS (3 Hours)**

Prerequisite: MUS 315.

Techniques of teaching private piano and piano classes; pedagogical methods, content and literature.

**MUS 424 APPLIED MAJOR PIANO (1-3 Hours)**

Prerequisite: MUS 325.

Advanced piano literature of varying forms, styles, idioms and techniques.

**MUS 426 VOICE PEDAGOGY (3 Hours)**

Prerequisite: MUS 215.

Objectives, methods and materials applied to vocal teaching. Procedures in voice production, respiration, phonation, articulation, resonance; voice classification, quality, diction, support and control. Elective.

**MUS 427 MUSIC SEMINAR (3 Hours)**

Prerequisite: Senior standing.

Integrative analysis, review and assimilation of basic concepts in the development of musicianship as related to contemporary needs and uses. Elective.

**MUS 428 APPLIED PIANO RECITAL (3 Hours)**

Prerequisite: MUS 424.

Advanced keyboard techniques, study of advanced Etudes and preparation of selected repertory for the Senior Recital. Public presentation of a Senior Recital.

**MUS 431 SYMPHONIC LITERATURE (3 Hours)**

Prerequisite: MUS 322.

Study of symphonic literature of various periods with emphasis on listening, score reading, style and analysis, historical practices and procedures, and technical problems of performance.

**MUS 432 KEYBOARD LITERATURE (3 Hours)**

Prerequisite: MUS 322.

Study of literature for keyboard instruments from earliest periods to the present. Performance, listening sessions and discussion of aesthetic value, structure and style.

**MUS 433 SONG LITERATURE (3 Hours)**

A chronological survey of song literature with emphasis on principal types, forms, composers stylistic features, trends and influences in representative style periods.

**MUS 434 COMPOSITION (2 Hours)**

Prerequisite: MUS 432.

Concentrated study of selected topics in keyboard literature. Correlation of art, music and literature; performance, listening and discussion of aesthetic values, structure and style.

**MUS 440 JAZZ COMPOSITION/ARRANGEMENT (3 Hours)****MUS 441 JAZZ COMP/ARR (3 Hours)****MUS 452 COMPOSITION I (0.5 Hours)**

Prerequisite: MUS 311.

Exploration and understanding methods by which music is composed, study of traditional musical styles, experiences in improvisation and manipulating common elements in traditional and nontraditional ways. Original compositions required. Elective.

**MUS 480 INTRODUCTION TO DIGITAL MEDIA (3 Hours)**

Prerequisite: Basic computer skills are required.

In this course students will learn the skills necessary to effectively create presentations in Multimedia formats such as Microsoft's Powerpoint. Students will learn how to create and edit bullet slides, use drawing tools, incorporate clip art and WordArt, create and enhance organizational charts, and create and edit charts using Microsoft Graph.

**MUS 481 COMPUTER APPL IN THE MUS INDUS (3 Hours)**

Prerequisite: Basic computer skills are required.

Students will understand how the Internet can be used as an indispensable tool in many areas of the music industry with a focus on music merchandising, recording studio operation and artist promotion.

**MUS 482 STUDIO RECORDING TECHNIQUES (3 Hours)**

Prerequisite: Basic computer skills.

This course is an examination of the art of audio recording. The curriculum will cover signal flow of the mixing console as it applied to both recording and sound reinforcement; microphones and techniques of application; use of sonic effects; recording devices (analog, digital, and hard disk); synchronization formats and wiring.

**MUS 483 DIGITAL SENIOR RECITAL (3 Hours)****MUS 484 Music Technology Internship (12 Hours)**

The Music Technology Internship program is designed to provide practical experience for advanced students in a professional recording industry setting. Student will develop professionalism in the field, reasoning ability, critical thinking, resourcefulness, and self-reliance. Students will establish contacts within the industry that may lead to entry level employment.

**MUS 496 RESEARCH IN MUS AND PSYCHOLOGY (3 Hours)**

This Service-Learning designated course will help students to gain an understanding of innovative techniques in music education and research to determine the effects of music on adolescents. The course will include online training and certification and approval by the Collaborative Institutional Training Initiative (CITT) and the Institutional Review Board (IRB) respectively. Students will be introduced to a wide variety of literature on music and anxiety as well as music and academic performance in children. Students will gain knowledge in collecting, analyzing, and reporting scientific data.

**MUS 498 INDEPENDENT STUDY (2 Hours)**

Prerequisite: MUS 325 and 432.

Intensive study of a subject selected in accordance with student needs, under the direction of the faculty. Written report required.

**MUS 499 INDEPENDENT STUDY (2 Hours)**

Prerequisite: Senior standing.

Individual program of study in major area of interest, under the direction of the faculty. Opportunities to broaden knowledge and develop further skills in special areas of music.

## Music-applied sec piano (MUSD)

**MUSD 114 APPLIED SECONDARY PIANO (1 Hour)**

For all vocal and instrumental students. Emphasis on scales, chords, sight-reading, improvised accompaniments to melodies and transposition.

**MUSD 115 APPLIED SECONDARY PIANO (1 Hour)**

For all vocal and instrumental students. Emphasis on scales, chords, sight-reading, improvised accompaniments to melodies and transposition.

**MUSD 214 APPLIED SECONDARY PIANO (1 Hour)**

Prerequisite: MUSD 115.

For vocal and instrumental students. Sight-reading and performance and materials suitable for school and community use. Harmonizations, transpositions, accompaniments and moderately easy compositions. Piano proficiency required in MUS 215.

**MUSD 215 APPLIED SECONDARY PIANO (1 Hour)**

Prerequisite: MUSD 115.

For vocal and instrumental students. Sight-reading and performance and materials suitable for school and community use. Harmonizations, transpositions, accompaniments and moderately easy compositions. Piano proficiency required in MUS 215.

**MUSD 216 APPLIED SECONDARY PIANO (1 Hour)**

Prerequisite: MUSD 215 or consent of instructor.

Continuation of development of basic keyboard skills including sight-reading, harmonization and transposition of simple melodies. Elective.

**MUSD 314 APPLIED SECONDARY PIANO (1 Hour)**

Development of piano skills to enable students to sight-read moderately easy compositions including jazz idioms, emphasis on community songs and choral accompaniments. Elective.

**MUSD 315 APPLIED SECONDARY PIANO (1 Hour)**

Continuation of MUSD 314 with the same types of materials on a moderately difficult level. Elective.

## Music-band (MUSK)

**MUSK 101 MARCHING BAND (0.5 Hours)**

Prerequisite: Audition required.

This course covers the fundamentals of marching technique, performing while moving, discipline, physical conditioning, school pride, commitment, as well as learning how to work as a group. The Marching Band performs at all football games, selected marching band festivals, campus, and throughout the United States.

**MUSK 102 MARCHING BAND (0.5 Hours)**

Prerequisite: Audition required.

This course covers the fundamentals of marching technique, performing while moving, discipline, physical conditioning, school pride, commitment, as well as learning how to work as a group. The Marching Band performs at all football games, selected marching band festivals, campus, and throughout the United States.

**MUSK 121 MARCHING BAND (0.5 Hours)**

Prerequisite: Audition required.

This course covers the fundamentals of marching technique, performing while moving, discipline, physical conditioning, school pride, commitment, as well as learning how to work as a group. The Marching Band performs at all football games, selected marching band festivals, campus, and throughout the United States.

**MUSK 122 A CONCERT BAND (0.5 Hours)**

Prerequisite: Audition required.

The University Concert Band performs literature from the concert band repertoire. Membership is open to all students, and adult community members. The group performs on-campus concerts.

**MUSK 131 MARCHING BAND (0.5 Hours)**

Prerequisite: Audition required.

This course covers the fundamentals of marching technique, performing while moving, discipline, physical conditioning, school pride, commitment, as well as learning how to work as a group. The Marching Band performs at all football games, selected marching band festivals, campus, and throughout the United States.

**MUSK 132 CONCERT BAND (0.5 Hours)**

Prerequisite: Audition required.

The University Concert Band performs literature from the concert band repertoire. Membership is open to all students, and adult community members. The group performs on-campus concerts.

**MUSK 141 MARCHING BAND (0.5 Hours)**

Prerequisite: Audition required.

This course covers the fundamentals of marching technique, performing while moving, discipline, physical conditioning, school pride, commitment, as well as learning how to work as a group. The Marching Band performs at all football games, selected marching band festivals, campus, and throughout the United States.

**MUSK 142 SYMPHONIC WIND ENSEMBLE (0.5 Hours)**

Prerequisite: Audition required.

This ensemble is the university's premier instrumental ensemble. Repertoire for the ensemble is chosen from the entire spectrum of wind ensemble and concert band literature and includes everything from new commissions to traditional literature to music of other cultures. The ensemble keeps an active rehearsal and travel schedule both regionally and nationally. Membership is by audition.

## Music-bassoon (MUSB)

### MUSB 114 APPLIED BASSOON (2 Hours)

Prerequisite: Freshman standing on bassoon audition.

Basic musicianship and technical studies including major, minor and chromatic scales and arpeggios. Embouchure development, tone production, reed making. Selected technical and solo material.

### MUSB 115 APPLIED BASSOON (2 Hours)

Prerequisite: Freshman standing on bassoon audition.

Basic musicianship and technical studies including major, minor and chromatic scales and arpeggios. Embouchure development, tone production, reed making. Selected technical and solo material.

### MUSB 214 APPLIED BASSOON (2 Hours)

Prerequisite: MUS 115.

Continuation of principles and techniques studied previous year including all scales, intervals, arpeggios, characteristics tone production, articulations, rhythms, sight-reading, standard technical, solo and ensemble material, making and adjusting reeds.

### MUSB 215 APPLIED BASSOON (2 Hours)

Prerequisite: MUS 115.

Continuation of principles and techniques studied previous year including all scales, intervals, arpeggios, characteristics tone production, articulations, rhythms, sight-reading, standard technical, solo and ensemble material, making and adjusting reeds.

### MUSB 314 APPLIED BASSOON (1 Hour)

Prerequisite: MUS 215.

More advanced technical study and repertoire development. Scales in thirds, fourths, and fifths, extended arpeggios, articulatory studies, range and dynamics development. Representation solo, ensemble and orchestral literature. Junior recital, 315 level.

### MUSB 315 APPLIED BASSOON (2 Hours)

Prerequisite: MUS 215.

More advanced technical study and repertoire development. Scales in thirds, fourths, and fifths, extended arpeggios, articulatory studies, range and dynamics development. Representation solo, ensemble and orchestral literature. Junior recital, 315 level.

### MUSB 414 APPLIED BASSOON (3 Hours)

Prerequisite: MUS 315.

Intensive study of bassoon literature, advanced technique, stylistic interpretation, and application of musical concepts to performance skills. Preparation and presentation of senior recital.

### MUSB 428 APPLIED MAJOR BASSOON (3 Hours)

Prerequisite: MUSB 424.

Continued advanced study in 20th century bassoon literature and Bassoon techniques, various forms and idioms. Preparation of selected repertory for the Senior Recital. Senior Recital performance required.

## Music-brasswind ensemble (MUBE)

### MUBE 171 BRASS ENSEMBLE I (0.5 Hours)

Prerequisite: Audition required.

This course is designed to develop, rehearse, and perform a wide range of literature for brass ensemble from all historical periods of music. To improve and continue to develop individual performance skills through musicality, phrasing, technique, intonation, listening, dynamics tone, balance and rhythm.

### MUBE 172 BRASS ENSEMBLE II (0.5 Hours)

Prerequisite: Audition required.

This course is designed to develop, rehearse, and perform a wide range of literature for brass ensemble from all historical periods of music. To improve and continue to develop individual performance skills through musicality, phrasing, technique, intonation, listening, dynamics tone, balance and rhythm.

### MUBE 271 BRASS ENSEMBLE III (0.5 Hours)

Prerequisite: Audition required.

This course is designed to develop, rehearse, and perform a wide range of literature for brass ensemble from all historical periods of music. To improve and continue to develop individual performance skills through musicality, phrasing, technique, intonation, listening, dynamics, tone, balance and rhythm.

### MUBE 272 BRASS ENSEMBLE IV (0.5 Hours)

Prerequisite: Audition required.

This course is designed to develop, rehearse, and perform a wide range of literature for brass ensemble from all historical periods of music. To improve and continue to develop individual performance skills through musicality, phrasing, technique, intonation, listening, dynamics, tone, balance and rhythm.

### MUBE 371 BRASS ENSEMBLE V (0.5 Hours)

Prerequisite: Audition required.

This course is designed to develop, rehearse, and perform a wide range of literature for brass ensemble from all historical periods of music. To improve and continue to develop individual performance skills through musicality, phrasing, technique, intonation, listening, dynamics, tone, balance and rhythm.

### MUBE 372 BRASS ENSEMBLE VI (0.5 Hours)

Prerequisite: Audition required.

This course is designed to develop, rehearse, and perform a wide range of literature for brass ensemble from all historical periods of music. To improve and continue to develop individual performance skills through musicality, phrasing, technique, intonation, listening, dynamics, tone, balance and rhythm.

### MUBE 471 BRASS ENSEMBLE VII (0.5 Hours)

Prerequisite: Audition required.

This course is designed to develop, rehearse, and perform a wide range of literature for brass ensemble from all historical periods of music. To improve and continue to develop individual performance skills through musicality, phrasing, technique, intonation, listening, dynamics, tone, balance and rhythm.

### MUBE 472 BRASS ENSEMBLE VIII (0.5 Hours)

Prerequisite: Audition required.

This course is designed to develop, rehearse, and perform a wide range of literature for brass ensemble from all historical periods of music. To improve and continue to develop individual performance skills through musicality, phrasing, technique, intonation, listening, dynamics, tone, balance and rhythm.

## Music-choir (MUSG)

### MUSG 101 UNIVERSITY CHOIR (0.5 Hours)

The course is designed to provide the student with knowledge and understanding of various styles of choral literature and development of listening skills with a large group. The University Choir performs on and off campus, and throughout the United States.



**MUSG 102 UNIVERSITY CHOIR (0.5 Hours)**

The course is designed to provide the student with knowledge and understanding of various styles of choral literature and development of listening skills with a large group. The University Choir performs on and off campus, and throughout the United States.

**MUSG 121 CHOIR (0.5 Hours)**

The course is designed to provide the student with knowledge and understanding of various styles of choral literature and development of listening skills with a large group. The University Choir performs on and off campus, and throughout the United States.

**MUSG 122 UNIVERSITY CHOIR (0.5 Hours)**

The course is designed to provide the student with knowledge and understanding of various styles of choral literature and development of listening skills with a large group. The University Choir performs on and off campus, and throughout the United States.

**MUSG 131 CHOIR (0.5 Hours)**

The course is designed to provide the student with knowledge and understanding of various styles of choral literature and development of listening skills with a large group. The University Choir performs on and off campus, and throughout the United States.

**MUSG 132 CHOIR (0.5 Hours)**

The course is designed to provide the student with knowledge and understanding of various styles of choral literature and development of listening skills with a large group. The University Choir performs on and off campus, and throughout the United States.

**MUSG 141 UNIVERSITY CHOIR (0.5 Hours)**

The course is designed to provide the student with knowledge and understanding of various styles of choral literature and development of listening skills with a large group. The University Choir performs on and off campus, and throughout the United States.

**MUSG 142 UNIVERSITY CHOIR (0.5 Hours)**

The course is designed to provide the student with knowledge and understanding of various styles of choral literature and development of listening skills with a large group. The University Choir performs on and off campus, and throughout the United States.

## Music-choral methods (MUSQ)

**MUSQ 421 CHORAL METHODS AND MATERIALS (3 Hours)**

Prerequisite: MUS 303 and 315.

Techniques of organizing and developing choral groups in schools; study and evaluation of choral methods, content and literature.

## Music-chorale (MUCH)

**MUCH 171 CHORALE (0.5 Hours)**

Prerequisite: By audition only.

The Chorale comprises 40-50 students whose objective is to provide opportunities for music majors and other students to perform chorale music that includes the Renaissance through Contemporary periods. The Chorale is designed to achieve exemplary artistic levels while performing on and off campus at special events, touring, and interfacing with other professional organizations.

**MUCH 172 CHORALE (0.5 Hours)**

Prerequisite: By audition only.

The Chorale comprises 40-50 students whose objective is to provide opportunities for music majors and other students to perform chorale music that includes the Renaissance through Contemporary periods. The Chorale is designed to achieve exemplary artistic levels while performing on and off campus at special events, touring, and interfacing with other professional organizations.

**MUCH 271 CHORALE (0.5 Hours)**

Prerequisite: By audition only.

The Chorale comprises 40-50 students whose objective is to provide opportunities for music majors and other students to perform chorale music that includes the Renaissance through Contemporary periods. The Chorale is designed to achieve exemplary artistic levels while performing on and off campus at special events, touring, and interfacing with other professional organizations.

**MUCH 272 UNIVERSITY CHORALE (0.5 Hours)**

Prerequisite: By audition only.

The Chorale comprises 40-50 students whose objective is to provide opportunities for music majors and other students to perform chorale music that includes the Renaissance through Contemporary periods. The Chorale is designed to achieve exemplary artistic levels while performing on and off campus at special events, touring, and interfacing with other professional organizations.

**MUCH 371 CHORALE (0.5 Hours)**

Prerequisite: By audition only.

The Chorale comprises 40-50 students whose objective is to provide opportunities for music majors and other students to perform chorale music that includes the Renaissance through Contemporary periods. The Chorale is designed to achieve exemplary artistic levels while performing on and off campus at special events, touring, and interfacing with other professional organizations.

**MUCH 372 CHORALE (0.5 Hours)**

Prerequisite: By audition only.

The Chorale comprises 40-50 students whose objective is to provide opportunities for music majors and other students to perform chorale music that includes the Renaissance through Contemporary periods. The Chorale is designed to achieve exemplary artistic levels while performing on and off campus at special events, touring, and interfacing with other professional organizations.

**MUCH 471 CHORALE (0.5 Hours)**

Prerequisite: By audition only.

The Chorale comprises 40-50 students whose objective is to provide opportunities for music majors and other students to perform chorale music that includes the Renaissance through Contemporary periods. The Chorale is designed to achieve exemplary artistic levels while performing on and off campus at special events, touring, and interfacing with other professional organizations.

**MUCH 472 CHORALE (0.5 Hours)**

Prerequisite: By audition only.

The Chorale comprises 40-50 students whose objective is to provide opportunities for music majors and other students to perform chorale music that includes the Renaissance through Contemporary periods. The Chorale is designed to achieve exemplary artistic levels while performing on and off campus at special events, touring, and interfacing with other professional organizations.

## Music-clarinet (MUSC)

### MUSC 114 APPLIED CLARINET (2 Hours)

Prerequisite: Freshman standing on clarinet audition.  
Study of tone production, proper breath support, embouchure development, articulations, major and minor scales and arpeggios. Basic musicianship development; technical studies and selected solo literature.

### MUSC 115 APPLIED CLARINET (2 Hours)

Prerequisite: Freshman standing on clarinet audition.  
Study of tone production, proper breath support, embouchure development, articulations, major and minor scales and arpeggios. Basic musicianship development; technical studies and selected solo literature.

### MUSC 124 APPLIED MAJOR CLARINET (3 Hours)

Entrance by Audition. In-depth study of clarinet performance techniques, including all major/minor scales, arpeggios, and thirds, selected technical studies, etudes and standard repertoire. Recital performance required.

### MUSC 214 APPLIED CLARINET (2 Hours)

Prerequisite: MUSC 115.  
Continuation of basic musicianship principles and techniques. Major, minor and chromatic scales in third, skill in adjusting clarinet reeds, sight-reading and transposition and various articulations. Selected solo and ensemble material.

### MUSC 215 APPLIED CLARINET (2 Hours)

Prerequisite: MUSC 115.  
Continuation of basic musicianship principles and techniques. Major, minor and chromatic scales in third, skill in adjusting clarinet reeds, sight-reading and transposition and various articulations. Selected solo and ensemble material.

### MUSC 314 APPLIED CLARINET (2 Hours)

Prerequisite: MUSC 215.  
Continuation of technical study and repertoire development. More advanced performance of scales, arpeggios, articulations, embellishments, sight-reading and transposition. Representative solo, ensemble and orchestral literature. Junior recital, 315 level.

### MUSC 315 APPLIED CLARINET (2 Hours)

Prerequisite: MUSC 215.  
Continuation of technical study and repertoire development. More advanced performance of scales, arpeggios, articulations, embellishments, sight-reading and transposition. Representative solo, ensemble and orchestral literature. Junior recital, 315 level.

### MUSC 414 APPLIED CLARINET (2 Hours)

Prerequisite: MUSC 315.  
Advanced technical and repertory study. Emphasis on stylistic interpretation of solo, ensemble and orchestral literature from principal historical periods. Preparation and presentation of senior recital.

## Music-euphonium (MUSE)

### MUSE 114 APPLIED EUPHONIUM (2 Hours)

Prerequisite: Freshman level on applied audition.  
Study of tone production, breath support, embouchure development, and elements of musicianship. Major, minor scales and arpeggios, clef studies, and lip flexibility exercises. Selected technical studies and solo materials.

### MUSE 115 APPLIED EUPHONIUM (2 Hours)

Prerequisite: Freshman level on applied audition.  
Study of tone production, breath support, embouchure development, and elements of musicianship. Major, minor scales and arpeggios, clef studies, and lip flexibility exercises. Selected technical studies and solo materials.

### MUSE 124 APPLIED MAJOR EUPHONIUM (3 Hours)

Entrance by Audition. In-depth study of euphonium performance techniques, including all major/minor scales, arpeggios, and thirds, selected technical studies, etudes and standard repertoire. Recital performance required.

### MUSE 125 APPLIED MAJOR EUPHONIUM (3 Hours)

Prerequisite: MUSE 124.  
Continuation of MUS 124. Recital performance required.

### MUSE 214 APPLIED EUPHONIUM (2 Hours)

Prerequisite: MUS 115.  
Continuation of previous studies with emphasis on basic musicianship, repertoire, and technical development. Major, minor, chromatic scales, arpeggios, sight-reading, transposition; technical exercises, solo and ensemble materials and stylistic interpretation.

### MUSE 215 APPLIED EUPHONIUM (2 Hours)

Prerequisite: MUS 115.  
Continuation of previous studies with emphasis on basic musicianship, repertoire, and technical development. Major, minor, chromatic scales, arpeggios, sight-reading, transposition; technical exercises, solo and ensemble materials and stylistic interpretation.

### MUSE 224 APPLIED MAJOR EUPHONIUM (3 Hours)

Prerequisite: MUSE 125.  
Continued in-depth study of euphonium performance techniques, including all major/minor scales, diminished 7th and dominant 7th chords, transposition, multiple tonguing, technical studies, etudes and the standard repertoire. Recital performance required

### MUSE 225 APPLIED MAJOR EUPHONIUM (3 Hours)

Prerequisite: MUSE 224.  
Continuation of MUSE 224. Recital performance required. Sophomore Proficiency required.

### MUSE 314 APPLIED EUPHONIUM (2 Hours)

Prerequisite: MUS 215.  
Advanced technical study and repertoire development. Representative literature for solo and ensemble performance. Junior recital preparation and presentation at 315 level.

### MUSE 315 APPLIED EUPHONIUM (2 Hours)

Prerequisite: MUS 215.  
Advanced technical study and repertoire development. Representative literature for solo and ensemble performance. Junior recital preparation and presentation at 315 level.

### MUSE 324 APPLIED MAJOR EUPHONIUM (3 Hours)

Prerequisite: MUSE 225.  
Advanced in-depth study of euphonium performance techniques, technical studies, etudes and the standard repertoire. Detailed study of representative works of all historical periods. Recital performance required.

### MUSE 325 APPLIED MAJOR EUPHONIUM (3 Hours)

Prerequisite: MUSE 324.  
Continuation of MUS 324. Junior Recital performance required.

**MUSE 414 APPLIED EUPHONIUM (2 Hours)**

Prerequisite: MUS 315.

Continuation of advanced technical study and repertoire development. Intensive study of selected literature for Euphonium. Preparation and presentation of senior recital.

**MUSE 424 APPLIED MAJOR EUPHONIUM (3 Hours)**

Prerequisite: MUSE 325.

Advanced study in 20th century euphonium literature and euphonium techniques, various forms and idioms. Recital performance required.

**MUSE 428 APPLIED MAJOR EUPHONIUM (3 Hours)**

Prerequisite: MUSE 424.

Continued advanced study in 20th century euphonium literature and euphonium techniques, various forms and idioms. Preparation of selected repertory for the Senior Recital. Senior Recital performance required.

## Music-flute (MUSF)

**MUSF 114 APPLIED FLUTE (2 Hours)**

Prerequisite: Freshman standing on flute audition.

Two octave major and minor scales and arpeggios; development of embouchure and tone quality, breath control and varying articulation with emphasis on basic musicianship. Selected technical studies and solo materials.

**MUSF 115 APPLIED FLUTE (2 Hours)**

Prerequisite: Freshman standing on flute audition.

Two octave major and minor scales and arpeggios; development of embouchure and tone quality, breath control and varying articulation with emphasis on basic musicianship. Selected technical studies and solo materials.

**MUSF 124 APPLIED FLUTE MAJOR (3 Hours)**

Entrance by Audition. In-depth study of flute performance techniques, including all major/minor scales, arpeggios, and thirds, selected technical studies, etudes and standard repertoire. Recital performance required.

**MUSF 125 APPLIED MAJOR FLUTE (3 Hours)**

Prerequisite: MUSF 124.

Continuation of MUSF 124. Recital performance required.

**MUSF 214 APPLIED FLUTE (2 Hours)**

Prerequisite: MUSF 115.

Continued stress on basic musicianship, tone quality, technical development and repertory. All major, minor and chromatic scales, arpeggios and embellishments. Standard solo, ensemble and technical material progressing in difficulty.

**MUSF 215 APPLIED FLUTE (2 Hours)**

Prerequisite: MUSF 115.

Continued stress on basic musicianship, tone quality, technical development and repertory. All major, minor and chromatic scales, arpeggios and embellishments. Standard solo, ensemble and technical material progressing in difficulty.

**MUSF 224 APPLIED MAJOR FLUTE (3 Hours)**

Prerequisite: MUSF 125.

Continued in-depth study of flute performance techniques, including all major/minor scales, diminished 7th and dominant 7th chords, technical studies, etudes and the standard repertoire. Recital performance required.

**MUSF 225 APPLIED MAJOR FLUTE (3 Hours)**

Prerequisite: MUSF 224.

Continuation of MUSF 224. Recital performance required. Sophomore Proficiency required.

**MUSF 314 APPLIED FLUTE (1 Hour)**

Prerequisite: MUSF 215.

Continued technical study, development of repertoire, stylistic interpretation and performance skills. Selected solo, ensemble and orchestral material from standard repertoire. Junior recital as 315 level.

**MUSF 315 APPLIED FLUTE (2 Hours)**

Prerequisite: MUSF 215.

Continued technical study, development of repertoire, stylistic interpretation and performance skills. Selected solo, ensemble and orchestral material from standard repertoire. Junior recital as 315 level.

**MUSF 324 APPLIED MAJOR FLUTE (3 Hours)**

Prerequisite: MUSF 225.

Advanced in-depth study of flute performance techniques, technical studies, etudes and the standard repertoire. Detailed study of representative works of all historical periods. Recital performance required.

**MUSF 325 APPLIED MAJOR FLUTE (3 Hours)**

Prerequisite: MUSF 324.

Continuation of MUS 324. Junior Recital performance required.

**MUSF 414 APPLIED FLUTE (2 Hours)**

Prerequisite: MUSF 315.

Advanced technical study. Special exercises with emphasis on stylistic interpretation of a well-balanced repertoire. Preparation and presentation of senior recital.

**MUSF 424 APPLIED MAJOR FLUTE (3 Hours)**

Prerequisite: MUSF 325.

Advanced study in 20th century flute literature and flute techniques, various forms and idioms. Recital performance required.

**MUSF 428 APPLIED MAJOR FLUTE (3 Hours)**

Prerequisite: MUSF 424.

Continued advanced study in 20th century flute literature and flute techniques, various forms and idioms. Preparation of selected repertory for the Senior Recital. Senior Recital performance required.

## Music-french horn (MUSH)

**MUSH 114 APPLIED FRENCH HORN (2 Hours)**

Prerequisite: Freshman standing on French Horn audition.

Methods pertinent to development of good tone production, proper breath techniques, articulation and musical interpretation in correlation with music fundamentals. Selected technical and solo materials.

**MUSH 115 APPLIED FRENCH HORN (2 Hours)**

Prerequisite: Freshman standing on French Horn audition.

Methods pertinent to development of good tone production, proper breath techniques, articulation and musical interpretation in correlation with music fundamentals. Selected technical and solo materials.

**MUSH 214 APPLIED FRENCH HORN (2 Hours)**

Prerequisite: MUSH 115.

Continuation on tone quality, breath control, two octave major and minor scales and arpeggios, register expansion, embouchure building and lip flexibility. Study of transposition, technical exercises, solo and ensemble materials.

**MUSH 215 APPLIED FRENCH HORN (2 Hours)**

Prerequisite: MUSH 115.

Continuation on tone quality, breath control, two octave major and minor scales and arpeggios, register expansion, embouchure building and lip flexibility. Study of transposition, technical exercises, solo and ensemble materials.

**MUSH 314 APPLIED FRENCH HORN (2 Hours)**

Prerequisite: MUSH 215.

Continuation of previous studies with emphasis on embouchure building, range and muting studies, trilling exercises, other technical considerations; transposition, stylistic interpretation and repertoire development. Junior recital, 315 level.

**MUSH 315 APPLIED FRENCH HORN (2 Hours)**

Prerequisite: MUSH 215.

Continuation of previous studies with emphasis on embouchure building, range and muting studies, trilling exercises, other technical considerations; transposition, stylistic interpretation and repertoire development. Junior recital, 315 level.

**MUSH 414 APPLIED FRENCH HORN (2 Hours)**

Prerequisite: MUSH 315.

Advanced technical and repertoire development. Standard solo, ensemble and orchestral literature from principal historical periods. Preparation and presentation of senior recital.

**MUSH 415 APPLIED FRENCH HORN (2 Hours)**

Prerequisite: MUSH 414 or equivalent.

Elective and advanced technical and repertory study on principal instrument beyond senior recital requirements.

## Music-instrumental methods (MUSM)

**MUSM 421 INSTRUMENTAL METHODS&MATERIALS (3 Hours)**

Prerequisite: MUS 222, 303 and 332.

Techniques of organizing and developing instrumental groups; musical content, pedagogical practices, procedures, methods and materials for developing bands, orchestras, ensembles and solo performances.

## Music-jazz ensemble (MUJE)

**MUJE 171 JAZZ ENSEMBLE (0.5 Hours)**

This is a music performance course. The purpose of this course is to provide a comprehensive experience regarding the common qualities of jazz, dances, and show band playing styles. Emphasis will be placed on the performance of various styles of 309 jazz music for the large ensemble.

**MUJE 172 JAZZ ENSEMBLE I (0.5 Hours)**

This is a music performance course. The purpose of this course is to provide a comprehensive experience regarding the common qualities of jazz, dances, and show band playing styles. Emphasis will be placed on the performance of various styles of 309 jazz music for the large ensemble.

**MUJE 271 JAZZ ENSEMBLE I (0.5 Hours)**

This is a music performance course. The purpose of this course is to provide a comprehensive experience regarding the common qualities of jazz, dances, and show band playing styles. Emphasis will be placed on the performance of various styles of 309 jazz music for the large ensemble.

**MUJE 272 JAZZ ENSEMBLE (0.5 Hours)**

This is a music performance course. The purpose of this course is to provide a comprehensive experience regarding the common qualities of jazz, dances, and show band playing styles. Emphasis will be placed on the performance of various styles of 309 jazz music for the large ensemble.

**MUJE 371 JAZZ ENSEMBLE (0.5 Hours)**

This is a music performance course. The purpose of this course is to provide a comprehensive experience regarding the common qualities of jazz, dances, and show band playing styles. Emphasis will be placed on the performance of various styles of 309 jazz music for the large ensemble.

**MUJE 372 VOCAL JAZZ ENSEMBLE (0.5 Hours)**

This is a music performance course. The purpose of this course is to provide a comprehensive experience regarding the common qualities of jazz, dances, and show band playing styles. Emphasis will be placed on the performance of various styles of 309 jazz music for the large ensemble.

**MUJE 471 JAZZ ENSEMBLE (0.5 Hours)**

This is a music performance course. The purpose of this course is to provide a comprehensive experience regarding the common qualities of jazz, dances, and show band playing styles. Emphasis will be placed on the performance of various styles of 309 jazz music for the large ensemble.

**MUJE 472 VOCAL JAZZ ENSEMBLE (0.5 Hours)**

This is a music performance course. The purpose of this course is to provide a comprehensive experience regarding the common qualities of jazz, dances, and show band playing styles. Emphasis will be placed on the performance of various styles of 309 jazz music for the large ensemble.

## Music-jsu singers (MUJS)

**MUJS 171 JSU SINGERS (0.5 Hours)**

Prerequisite: Audition required.

A vocal performance ensemble course that provides singers with an opportunity to study and perform literature for vocal ensembles that are a part of standard Western art music tradition as well as world music.

**MUJS 172 JSU SINGERS (0.5 Hours)**

Prerequisite: Audition required.

A vocal performance ensemble course that provides singers with an opportunity to study and perform literature for vocal ensembles that are a part of standard Western art music tradition as well as world music.

**MUJS 271 JSU SINGERS (0.5 Hours)**

Prerequisite: Audition required.

A vocal performance ensemble course that provides singers with an opportunity to study and perform literature for vocal ensembles that are a part of standard Western art music tradition as well as world music.

**MUJS 272 JSU SINGERS (0.5 Hours)**

Prerequisite: Audition required.

A vocal performance ensemble course that provides singers with an opportunity to study and perform literature for vocal ensembles that are a part of standard Western art music tradition as well as world music.

**MUJS 371 JSU SINGERS (0.5 Hours)**

Prerequisite: Audition required.

A vocal performance ensemble course that provides singers with an opportunity to study and perform literature for vocal ensembles that are a part of standard Western art music tradition as well as world music.

**MUJS 372 JSU SINGERS (0.5 Hours)**

Prerequisite: Audition required.

A vocal performance ensemble course that provides singers with an opportunity to study and perform literature for vocal ensembles that are a part of standard Western art music tradition as well as world music.

**MUJS 471 JSU SINGERS (0.5 Hours)**

Prerequisite: Audition required.

A vocal performance ensemble course that provides singers with an opportunity to study and perform literature for vocal ensembles that are a part of standard Western art music tradition as well as world music.

**MUJS 472 JSU SINGERS (0.5 Hours)**

Prerequisite: Audition required.

A vocal performance ensemble course that provides singers with an opportunity to study and perform literature for vocal ensembles that are a part of standard Western art music tradition as well as world music.

## Music-oboe (MUSZ)

**MUSZ 114 APPLIED OBOE (2 Hours)**

Prerequisite: Freshman standing on auditions.

Study of basic musicianship including scales and arpeggios in major and minor keys, embouchure development, tone production articulation, making and adjusting reeds. Selected technical and solo materials.

**MUSZ 115 APPLIED OBOE (2 Hours)**

Prerequisite: Freshman standing on auditions.

Study of basic musicianship including scales and arpeggios in major and minor keys, embouchure development, tone production articulation, making and adjusting reeds. Selected technical and solo materials.

**MUSZ 214 APPLIED OBOE (2 Hours)**

Prerequisite: MUSZ 115.

Continuation of basic musicianship principles and technical studies. Application of technique to performance skills, scales; intervals, arpeggios, articulations, technical studies, solo ensemble materials.

**MUSZ 215 APPLIED OBOE (2 Hours)**

Prerequisite: MUSZ 115.

Continuation of basic musicianship principles and technical studies. Application of technique to performance skills, scales; intervals, arpeggios, articulations, technical studies, solo ensemble materials.

**MUSZ 314 APPLIED OBOE (2 Hours)**

Prerequisite: MUSZ 215.

Continuation of technical studies, extension of repertoire and development of stylistic interpretation. Selected solo, ensemble and orchestral literature from standard repertoire of principal periods. Junior recital at 315 level.

**MUSZ 315 APPLIED OBOE (2 Hours)**

Prerequisite: MUSZ 215.

Continuation of technical studies, extension of repertoire and development of stylistic interpretation. Selected solo, ensemble and orchestral literature from standard repertoire of principal periods. Junior recital at 315 level.

**MUSZ 414 APPLIED OBOE (3 Hours)**

Prerequisite: MUSZ 315.

Advanced technical study and development of performance skills with on stylistic interpretation of balanced repertoire from the principal historical periods. Preparation and presentation of senior recital.

**MUSZ 428 APPLIED MAJOR OBOE (3 Hours)**

Prerequisite: MUSZ 424.

Continued advanced study in 20th century oboe literature and oboe techniques, various forms and idioms. Preparation of selected repertoire for the Senior Recital. Senior Recital performance required

## Music-orchestra (MUSJ)

**MUSJ 101 ORCHESTRA (0.5 Hours)**

Prerequisite: Audition required.

This course provides opportunities for students to study and perform orchestral repertoire at and above standard college-level from antiquity through contemporary periods in music history as well as to provide a comprehensive experience with symphonic literature.

**MUSJ 102 ORCHESTRA (0.5 Hours)**

Prerequisite: Audition required.

This course provides opportunities for students to study and perform orchestral repertoire at and above standard college-level from antiquity through contemporary periods in music history as well as to provide a comprehensive experience with symphonic literature.

**MUSJ 121 ORCHESTRA (0.5 Hours)**

Prerequisite: Audition required.

This course provides opportunities for students to study and perform orchestral repertoire at and above standard college-level from antiquity through contemporary periods in music history as well as to provide a comprehensive experience with symphonic literature.

**MUSJ 122 ORCHESTRA (0.5 Hours)**

Prerequisite: Audition required.

This course provides opportunities for students to study and perform orchestral repertoire at and above standard college-level from antiquity through contemporary periods in music history as well as to provide a comprehensive experience with symphonic literature.

**MUSJ 131 ORCHESTRA (0.5 Hours)**

Prerequisite: Audition required.

This course provides opportunities for students to study and perform orchestral repertoire at and above standard college-level from antiquity through contemporary periods in music history as well as to provide a comprehensive experience with symphonic literature.

**MUSJ 132 ORCHESTRA (0.5 Hours)**

Prerequisite: Audition required.

This course provides opportunities for students to study and perform orchestral repertoire at and above standard college-level from antiquity through contemporary periods in music history as well as to provide a comprehensive experience with symphonic literature.

**MUSJ 141 ORCHESTRA (0.5 Hours)**

Prerequisite: Audition required.

This course provides opportunities for students to study and perform orchestral repertoire at and above standard college-level from antiquity through contemporary periods in music history as well as to provide a comprehensive experience with symphonic literature.

**MUSJ 142 ORCHESTRA (0.5 Hours)**

Prerequisite: Audition required.

This course provides opportunities for students to study and perform orchestral repertoire at and above standard college-level from antiquity through contemporary periods in music history as well as to provide a comprehensive experience with symphonic literature.

## Music-percussion (MUSP)

### MUSP 114 APPLIED PERCUSSION (2 Hours)

Prerequisite: Freshman level on applied audition.

Snare drum and timpani technique. Basic elements of musicianship applied to tone production, rhythm, dynamics, sight-reading, tuning, pedaling, intonation, sticking, rudiments and control. Standard technical studies and solos.

### MUSP 115 APPLIED PERCUSSION (2 Hours)

Prerequisite: Freshman level on applied audition.

Snare drum and timpani technique. Basic elements of musicianship applied to tone production, rhythm, dynamics, sight-reading, tuning, pedaling, intonation, sticking, rudiments and control. Standard technical studies and solos.

### MUSP 124 APPLIED PERCUSSION MAJOR (3 Hours)

Entrance by Audition. Snare drum, xylophone, and timpani techniques. In-depth study of percussion performance techniques, including all major/minor scales, tone production, rhythm, dynamics, sight-reading, tuning, pedaling, intonation, sticking, rudiments, arpeggios, and thirds, selected technical studies, etudes and standard repertoire. Recital performance required.

### MUSP 125 APPLIED MAJOR PERCUSSION (3 Hours)

Prerequisite: MUSP 124.

Continuation of MUS 124. Recital performance required.

### MUSP 214 APPLIED PERCUSSION (2 Hours)

Prerequisite: MUS 115.

Continuation of snare drum, timpani and basic musicianship studies.

Study of xylophone, marimba, bass drum, cymbals, traps and other mallet instruments. Selected technical solo and ensemble literature.

### MUSP 215 APPLIED PERCUSSION (2 Hours)

Prerequisite: MUS 115.

Continuation of snare drum, timpani and basic musicianship studies.

Study of xylophone, marimba, bass drum, cymbals, traps and other mallet instruments. Selected technical solo and ensemble literature.

### MUSP 224 APPLIED MAJOR PERCUSSION (3 Hours)

Prerequisite: MUSP 125.

Study of xylophone, marimba, bass drum, cymbals, traps and other mallet instruments. Continued in-depth study of percussion performance techniques, including all major/minor scales, diminished 7th and dominant 7th chords, technical studies, etudes and the standard repertoire. Recital performance required.

### MUSP 225 APPLIED MAJOR PERCUSSION (3 Hours)

Prerequisite: MUSP 224.

Continuation of MUS 224. Recital performance required. Sophomore Proficiency required.

### MUSP 314 APPLIED PERCUSSION (2 Hours)

Prerequisite: MUS 215.

Continuation and expansion of prior technical studies, solos and ensemble literature to include more advanced studies, multi-percussion techniques and new notational system. Junior recital, 315 level.

### MUSP 315 APPLIED PERCUSSION (2 Hours)

Prerequisite: MUS 215.

Continuation and expansion of prior technical studies, solos and ensemble literature to include more advanced studies, multi-percussion techniques and new notational system. Junior recital, 315 level.

### MUSP 324 APPLIED MAJOR PERCUSSION (3 Hours)

Prerequisite: MUSP 225.

Continuation of prior percussion instruments studied with the addition of multi-percussion techniques and new notational system. Advanced in-depth study of percussion performance techniques, technical studies, etudes and the standard repertoire. Detailed study of representative works of all historical periods. Recital performance required.

### MUSP 325 APPLIED MAJOR PERCUSSION (3 Hours)

Prerequisite: MUSP 324.

Continuation of MUSP 324. Junior Recital performance required.

### MUSP 414 APPLIED PERCUSSION (2 Hours)

Prerequisite: MUS 315.

Continued development of technique and musicianship with application to expanded repertoire, stylistic interpretation, preparation and presentation of senior recital.

### MUSP 424 APPLIED MAJOR PERCUSSION (3 Hours)

Prerequisite: MUSP 325.

Advanced study in 20th century percussion literature and percussion techniques, various forms and idioms. Recital performance required.

### MUSP 428 APPLIED MAJOR PERCUSSION (3 Hours)

Prerequisite: MUSP 424.

Continued advanced study in 20th century percussion literature and percussion techniques, various forms and idioms. Preparation of selected repertory for the Senior Recital. Senior Recital performance required.

## Music-percussion ensemble (MUPE)

### MUPE 171 PERCUSSION ENSEMBLE (0.5 Hours)

The student will study the classics of percussion literature, and contemporary percussion music through performance. Percussion Ensemble is a requirement of all Music Education percussion majors and those who are on scholarship with the band program.

### MUPE 172 PERCUSSION ENSEMBLE (0.5 Hours)

The student will study the classics of percussion literature, and contemporary percussion music through performance. Percussion Ensemble is a requirement of all Music Education percussion majors and those who are on scholarship with the band program.

### MUPE 271 PERCUSSION ENSEMBLE (0.5 Hours)

The student will study the classics of percussion literature, and contemporary percussion music through performance. Percussion Ensemble is a requirement of all Music Education percussion majors and those who are on scholarship with the band program.

### MUPE 272 PERCUSSION ENSEMBLE (0.5 Hours)

The student will study the classics of percussion literature, and contemporary percussion music through performance. Percussion Ensemble is a requirement of all Music Education percussion majors and those who are on scholarship with the band program.

### MUPE 371 PERCUSSION ENSEMBLE (0.5 Hours)

The student will study the classics of percussion literature, and contemporary percussion music through performance. Percussion Ensemble is a requirement of all Music Education percussion majors and those who are on scholarship with the band program.

### MUPE 372 PERCUSSION ENSEMBLE (0.5 Hours)

The student will study the classics of percussion literature, and contemporary percussion music through performance. Percussion Ensemble is a requirement of all Music Education percussion majors and those who are on scholarship with the band program.

**MUPE 471 PERCUSSION ENSEMBLE (0.5 Hours)**

The student will study the classics of percussion literature, and contemporary percussion music through performance. Percussion Ensemble is a requirement of all Music Education percussion majors and those who are on scholarship with the band program.

**MUPE 472 PERCUSSION ENSEMBLE (0.5 Hours)**

The student will study the classics of percussion literature, and contemporary percussion music through performance. Percussion Ensemble is a requirement of all Music Education percussion majors and those who are on scholarship with the band program.

## Music-saxophone (MUSX)

**MUSX 114 APPLIED SAXOPHONE (2 Hours)**

Prerequisite: Freshman standing on saxophone audition.

Study of correct tone production, embouchure development, breath support and elements of basic musicianship. Major, minor and chromatic scales and arpeggios, articulations, technical studies and selected solo materials.

**MUSX 115 APPLIED SAXOPHONE (2 Hours)**

Prerequisite: Freshman standing on saxophone audition.

Study of correct tone production, embouchure development, breath support and elements of basic musicianship. Major, minor and chromatic scales and arpeggios, articulations, technical studies and selected solo materials.

**MUSX 124 APPLIED SAXOPHONE MAJOR (3 Hours)****MUSX 214 APPLIED SAXOPHONE (1-2 Hours)**

Prerequisite: MUSX 115.

Continuation of basic musicianship, techniques and repertoire development. Scales, arpeggios, intervals, tonguing studies, sight-reading, transposition studies. Representative solo, ensemble and orchestral literature. Junior recital, 315 level.

**MUSX 215 APPLIED SAXOPHONE (2 Hours)**

Prerequisite: MUSX 115.

Continuation of basic musicianship, techniques and repertoire development. Scales, arpeggios, intervals, tonguing studies, sight-reading, transposition studies. Representative solo, ensemble and orchestral literature. Junior recital, 315 level.

**MUSX 314 APPLIED SAXOPHONE (2 Hours)**

Prerequisite: MUSX 215.

Advanced technical study, stylistic interpretation and repertory development. More advanced scale, arpeggios, articulatory, sight-reading and transposition studies. Representative solo, ensemble and orchestral literature. Junior recital, 315 level.

**MUSX 315 APPLIED SAXOPHONE (2 Hours)**

Prerequisite: MUSX 215.

Advanced technical study, stylistic interpretation and repertory development. More advanced scale, arpeggios, articulatory, sight-reading and transposition studies. Representative solo, ensemble and orchestral literature. Junior recital, 315 level.

**MUSX 414 APPLIED SAXOPHONE (2 Hours)**

Prerequisite: MUSX 315.

Advanced technical study. Intensive study of saxophone literature, original and transcribed, with emphasis on the stylistic interpretation of standard solo, ensemble and orchestral materials. Preparation and presentation of senior recital.

**MUSX 415 SENIOR RECITAL (JAZZ) (3 Hours)****MUSX 428 APPLIED MAJOR SAXOPHONE (3 Hours)**

## Music-secondary voice (MUSL)

**MUSL 114 APPLIED SECONDARY VOICE (1 Hour)**

Prerequisite: Audition.

For students other than voice majors. Emphasis on the essentials and elements of artistic singing and reading skills. Songs in English and Italian.

**MUSL 115 APPLIED SECONDARY VOICE (1 Hour)**

Prerequisite: Audition.

For students other than voice majors. Emphasis on the essentials and elements of artistic singing and reading skills. Songs in English and Italian.

**MUSL 214 APPLIED SECONDARY VOICE (1 Hour)**

Prerequisite: MUSL 115.

Continuation of voice 115. Development of sufficient vocal skills to assure effective use of the voice in demonstrations. Experience in solo vocal performance. Songs in English and Italian.

**MUSL 215 APPLIED SECONDARY VOICE (1 Hour)**

Prerequisite: MUSL 115.

Continuation of voice 115. Development of sufficient vocal skills to assure effective use of the voice in demonstrations. Experience in solo vocal performance. Songs in English and Italian.

**MUSL 216 APPLIED SECONDARY VOICE (1 Hour)**

Prerequisite: MUSL 116 or consent of constructor.

More advanced elective course with emphasis on development of increased technical and technical skills. Repertoire requirements: Two American art songs or sacred songs and one Italian art song. At least two songs are to be memorized.

**MUSL 314 APPLIED SECONDARY VOICE (1 Hour)**

Prerequisite: Audition.

Elective courses for continued development of musicianship with the emphasis on stylistic interpretation through the use of vocal literature and technical studies. Songs in English, Italian, Spanish or French.

**MUSL 316 APPLIED SECONDARY VOICE (1 Hour)**

Prerequisite: MUSL 216 or consent of instructor.

Continuation of vocal technique and interpretive skills. More advanced repertoire. Repertoire Requirements: Four songs. Two American art songs or sacred songs, one operatic aria and one oratorio or cantata aria. At least three songs are to be memorized.

## Music-sight Singing (MUSY)

**MUSY 111 SIGHT SINGING & EAR TRAINING (1 Hour)**

Development of basic skills in music reading and aural perception.

Laboratory experience required.

**MUSY 112 SIGHT SINGING & EAR TRAINING (1 Hour)**

Development of basic skills in music reading and aural perception.

Laboratory experience required.

**MUSY 211 SIGHT SINGING & EAR TRAINING (1 Hour)**

Prerequisite: MUS 112.

More advanced studies in the development of music reading and aural perception skills. Laboratory experience required.

**MUSY 411 INSTRUMENTAL ARRANGING (3 Hours)**

Prerequisite: MUS 311, and 331-332.

Fundamental techniques of arranging and transcribing music for varied instrumental ensembles.

## Music-string ensemble (MUTE)

### MUTE 171 STRING ENSEMBLE (0.5 Hours)

The student will acquire a broad knowledge of technique and literature related to the performance and teaching of the String/Chamber Ensemble. Musical awareness and perceptions will be developed through the use of theoretical knowledge and skills while performing string ensemble literature.

### MUTE 172 STRING ENSEMBLE (0.5 Hours)

The student will acquire a broad knowledge of technique and literature related to the performance and teaching of the String/Chamber Ensemble. Musical awareness and perceptions will be developed through the use of theoretical knowledge and skills while performing string ensemble literature.

### MUTE 271 STRING ENSEMBLE (0.5 Hours)

The student will acquire a broad knowledge of technique and literature related to the performance and teaching of the String/Chamber Ensemble. Musical awareness and perceptions will be developed through the use of theoretical knowledge and skills while performing string ensemble literature.

### MUTE 272 STRING ENSEMBLE (0.5 Hours)

The student will acquire a broad knowledge of technique and literature related to the performance and teaching of the String/Chamber Ensemble. Musical awareness and perceptions will be developed through the use of theoretical knowledge and skills while performing string ensemble literature.

### MUTE 371 STRING ENSEMBLE (0.5 Hours)

The student will acquire a broad knowledge of technique and literature related to the performance and teaching of the String/Chamber Ensemble. Musical awareness and perceptions will be developed through the use of theoretical knowledge and skills while performing string ensemble literature.

### MUTE 372 STRING ENSEMBLE (0.5 Hours)

The student will acquire a broad knowledge of technique and literature related to the performance and teaching of the String/Chamber Ensemble. Musical awareness and perceptions will be developed through the use of theoretical knowledge and skills while performing string ensemble literature.

### MUTE 471 STRING ENSEMBLE (0.5 Hours)

The student will acquire a broad knowledge of technique and literature related to the performance and teaching of the String/Chamber Ensemble. Musical awareness and perceptions will be developed through the use of theoretical knowledge and skills while performing string ensemble literature.

### MUTE 472 STRING ENSEMBLE (0.5 Hours)

The student will acquire a broad knowledge of technique and literature related to the performance and teaching of the String/Chamber Ensemble. Musical awareness and perceptions will be developed through the use of theoretical knowledge and skills while performing string ensemble literature.

## Music-stringbass (MUSS)

### MUSS 114 APPLIED STRING BASS (2 Hours)

Prerequisite: Freshman standing on string bass audition. Study and review of basic left and right hand techniques, playing postures and tone production. Scales and arpeggios in two octaves. Selected studies, etudes and short solo pieces.

### MUSS 115 APPLIED STRING BASS (2 Hours)

Prerequisite: Freshman standing on string bass audition. Study and review of basic left and right hand techniques, playing postures and tone production. Scales and arpeggios in two octaves. Selected studies, etudes and short solo pieces.

### MUSS 214 APPLIED STRING BASS (2 Hours)

Prerequisite: MUS 115. Continuation of principles studied previous year, emphasis on bowings and thumb position. Scales and arpeggios in three octaves; more progressive etudes, studies, and selected short solo materials.

### MUSS 215 APPLIED STRING BASS (2 Hours)

Prerequisite: MUS 115. Continuation of principles studied previous year, emphasis on bowings and thumb position. Scales and arpeggios in three octaves; more progressive etudes, studies, and selected short solo materials.

### MUSS 314 APPLIED STRING BASS (2 Hours)

Prerequisite: MUS 215. Continuation of principles and materials studied previous year. Advanced etudes, problematic exercises, passages from standard orchestral studies, selected solo works. Junior recital at 315 level.

### MUSS 315 APPLIED STRING BASS (2 Hours)

Prerequisite: MUS 215. Continuation of principles and materials studied previous year. Advanced etudes, problematic exercises, passages from standard orchestral studies, selected solo works. Junior recital at 315 level.

### MUSS 414 APPLIED STRING BASS (2 Hours)

Prerequisite: MUS 315. Advanced technical study, continued development of repertoire, stylistic interpretation and application of musical concepts to performance skills. Preparation and presentation of senior recital.

### MUSS 428 APPLIED MAJOR STRING BASS (3 Hours)

Prerequisite: MUSS 424. Advanced study in contemporary string bass literature and string bass techniques. Preparation of selected repertory for the Senior Recital. MUS 425 Senior Recital performance required.

## Music-trombone (MUSR)

### MUSR 114 APPLIED TROMBONE (2 Hours)

Prerequisite: Freshman level on trombone auditions. Study of tone production, breath support, embouchure development, one octave major and minor scales and arpeggios and elements of basic musicianship. Selected technical studies and solo material.

### MUSR 115 APPLIED TROMBONE (2 Hours)

Prerequisite: Freshman level on trombone auditions. Study of tone production, breath support, embouchure development, one octave major and minor scales and arpeggios and elements of basic musicianship. Selected technical studies and solo material.

### MUSR 124 APPLIED MAJOR TROMBONE (3 Hours)

Entrance by audition. In-depth study of trombone performance techniques, including all major/minor scales and arpeggios, selected technical studies, clef studies, etudes and standard repertoire. Chamber ensemble and recital performance required.

### MUSR 125 APPLIED MAJOR TROMBONE (3 Hours)

Entrance by audition. In-depth study of trombone performance techniques, including all major/minor scales and arpeggios, selected technical studies, clef studies, etudes and standard repertoire. Chamber ensemble and recital performance required.



**MUSR 214 APPLIED TROMBONE (2 Hours)**

Prerequisite: MUSR 115.

Concentration on basic musicianship, technical studies, stylistic interpretation. Lip flexibility studies within one and a half octaves, increased tone, velocity and dynamic range. Selected technical, solo and ensemble literature.

**MUSR 215 APPLIED TROMBONE (2 Hours)**

Prerequisite: MUSR 115.

Concentration on basic musicianship, technical studies, stylistic interpretation. Lip flexibility studies within one and a half octaves, increased tone, velocity and dynamic range. Selected technical, solo and ensemble literature.

**MUSR 224 APPLIED MAJOR TROMBONE (3 Hours)**

Prerequisite: MUSR 125.

Continued in-depth study of trombone performance techniques, including all major/minor scales, diminished 7th and dominant 7th chords, advanced clef studies, multiple tonguing, technical studies, etudes and standard repertoire. Chamber ensemble and recital performance required. Sophomore Proficiency required.

**MUSR 225 APPLIED MAJOR TROMBONE (3 Hours)**

Prerequisite: MUSR 125.

Continued in-depth study of trombone performance techniques, including all major/minor scales, diminished 7th and dominant 7th chords, advanced clef studies, multiple tonguing, technical studies, etudes and standard repertoire. Chamber ensemble and recital performance required. Sophomore Proficiency required.

**MUSR 314 APPLIED TROMBONE (2 Hours)**

Prerequisite: MUSR 215.

Continuation of previous studies; emphasis on stylistic interpretation, rhythmic fluency, advanced lip and wrist flexibility exercises, phrasing and articulation, clef studies and repertoire development. Junior recital, 315 level.

**MUSR 315 APPLIED TROMBONE (2 Hours)**

Prerequisite: MUSR 215.

Continuation of previous studies; emphasis on stylistic interpretation, rhythmic fluency, advanced lip and wrist flexibility exercises, phrasing and articulation, clef studies and repertoire development. Junior recital, 315 level.

**MUSR 324 APPLIED MAJOR TROMBONE (3 Hours)**

Prerequisite: MUSR 225 and passing score on the Sophomore Proficiency.

Advanced in-depth study of trombone performance techniques, technical studies, etudes and standard repertoire. Detailed study of representative works from all historical periods. MUSR 325 Junior Recital performance required.

**MUSR 325 APPLIED MAJOR TROMBONE (3 Hours)**

Prerequisite: MUSR 225 and passing score on the Sophomore Proficiency.

Advanced in-depth study of trombone performance techniques, technical studies, etudes and standard repertoire. Detailed study of representative works from all historical periods. MUSR 325 Junior Recital performance required.

**MUSR 414 APPLIED TROMBONE (2 Hours)**

Prerequisite: MUSR 315.

Advanced technical study and extended repertoire development. Intensive study of trombone solo, ensemble, and technical materials. Preparation and presentation of senior recital.

**MUSR 424 APPLIED MAJOR TROMBONE (3 Hours)**

Prerequisite: MUSR 325.

Advanced study in contemporary trombone literature and trombone techniques, including; alto trombone, improvisation, and computer assisted performance. Chamber ensemble and recital performance required.

**MUSR 428 APPLIED MAJOR TROMBONE (3 Hours)**

Prerequisite: MUSR 424.

Advanced study in contemporary trombone literature and trombone techniques, including; alto trombone, improvisation, and computer assisted performance. Preparation of selected repertoire for the Senior Recital. MUS 425 Senior Recital performance required.

## Music-trumpet (MUST)

**MUST 114 APPLIED TRUMPET (2 Hours)**

Prerequisite: Freshman standing on trumpet audition.

Methods pertinent to development of good tone production, proper breath usage, embouchure formation, articulation and musical interpretation in correlation with basic elements of musicianship. Selected technical and solo materials.

**MUST 115 APPLIED TRUMPET (2 Hours)**

Prerequisite: Freshman standing on trumpet audition.

Methods pertinent to development of good tone production, proper breath usage, embouchure formation, articulation and musical interpretation in correlation with basic elements of musicianship. Selected technical and solo materials.

**MUST 124 APPLIED MAJOR TRUMPET (3 Hours)**

Entrance by Audition. In-depth study of trumpet performance techniques, including all major/minor scales, arpeggios, and thirds, selected technical studies, etudes and standard repertoire. Recital performance required.

**MUST 125 APPLIED MAJOR TRUMPET (3 Hours)**

Prerequisite: MUST 124.

Continuation of MUST 124. Recital performance required.

**MUST 214 APPLIED TRUMPET (2 Hours)**

Prerequisite: MUST 115.

Continuation of the study of basic musicianship, embouchure development, intervals, scales and study of arpeggios. Articulations, transposition and selected technical studies. Standard orchestral, solo and ensemble literature.

**MUST 215 APPLIED TRUMPET (2 Hours)**

Prerequisite: MUST 115.

Continuation of the study of basic musicianship, embouchure development, intervals, scales and study of arpeggios. Articulations, transposition and selected technical studies. Standard orchestral, solo and ensemble literature.

**MUST 224 APPLIED MAJOR TRUMPET (3 Hours)**

Prerequisite: MUST 125.

Continued in-depth study of trumpet performance techniques, including all major/minor scales, diminished 7th and dominant 7th chords, transposition, multiple tonguing, technical studies, etudes and the standard repertoire. Recital performance required

**MUST 225 APPLIED MAJOR TRUMPET (3 Hours)**

Prerequisite: MUST 224.

Continuation of MUST 224. Recital performance required. Sophomore Proficiency required.

**MUST 314 APPLIED TRUMPET (2 Hours)**

Prerequisite: MUST 215.

Continuation of previous studies. More intensive study of stylistic interpretation, technique, transposition, and standard solo, ensemble and orchestral literature for trumpet from principal historical periods. Junior recital, 315 level.

**MUST 315 APPLIED TRUMPET (2 Hours)**

Prerequisite: MUST 215.

Continuation of previous studies. More intensive study of stylistic interpretation, technique, transposition, and standard solo, ensemble and orchestral literature for trumpet from principal historical periods. Junior recital, 315 level.

**MUST 324 APPLIED MAJOR TRUMPET (3 Hours)**

Prerequisite: MUST 225.

Advanced in-depth study of trumpet performance techniques, technical studies, etudes and the standard repertoire. Detailed study of representative works of all historical periods. Recital performance required.

**MUST 325 APPLIED MAJOR TRUMPET (3 Hours)**

Prerequisite: MUST 324.

Continuation of MUST 324. Junior Recital performance required.

**MUST 414 APPLIED TRUMPET (2 Hours)**

Prerequisite: MUST 315.

Advanced technical study and repertory development. Representative literature from principal historical periods. Preparation and presentation of senior recital.

**MUST 415 APPLIED TRUMPET (2 Hours)**

Prerequisite: Consent of instructor.

Elective and advanced study on principal performing instrument beyond requirements or senior recital.

**MUST 424 APPLIED MAJOR TRUMPET (3 Hours)**

Prerequisite: MUST 325.

Advanced study in 20th century trumpet literature and trumpet techniques, trumpet in C, various forms and idioms. Recital performance required

**MUST 428 APPLIED MAJOR TRUMPET (3 Hours)**

Prerequisite: MUST 424.

Continued advanced study in 20th century trumpet literature and trumpet techniques, trumpet in C, piccolo trumpet, various forms and idioms. Preparation of selected repertory for the Senior Recital. Senior Recital performance required.

## Music-tuba (MUSU)

**MUSU 114 APPLIED TUBA (2 Hours)**

Prerequisite: Freshman level on applied audition.

Fundamentals of good tone production, embouchure development, playing position, breath support and articulation. One octave major scales and arpeggios. Basic elements of musicianship and technical exercises. Selected studies and solos.

**MUSU 115 APPLIED TUBA (2 Hours)**

Prerequisite: Freshman level on applied audition.

Fundamentals of good tone production, embouchure development, playing position, breath support and articulation. One octave major scales and arpeggios. Basic elements of musicianship and technical exercises. Selected studies and solos.

**MUSU 124 APPLIED MAJOR TUBA (3 Hours)**

Entrance by Audition. In-depth study of tuba performance techniques, including all major/minor scales, arpeggios, and thirds, selected technical studies, etudes and standard repertoire. Recital performance required.

**MUSU 214 APPLIED TUBA (2 Hours)**

Prerequisite: MUS 115.

Continuation of basic musicianship, technical development, and solo studies. Lip flexibility, articulation and rhythmic studies. Major, minor and chromatic scales, arpeggios, sight-reading, transposition, selected solo and technical material.

**MUSU 215 APPLIED TUBA (2 Hours)**

Prerequisite: MUS 115.

Continuation of basic musicianship, technical development, and solo studies. Lip flexibility, articulation and rhythmic studies. Major, minor and chromatic scales, arpeggios, sight-reading, transposition, selected solo and technical material.

**MUSU 314 APPLIED TUBA (1-2 Hours)**

Prerequisite: MUS 215.

Advanced technical study, repertoire development. Velocity and extended range studies; two octave major, minor, chromatic scales, stylistic interpretation; orchestral solo passages, solo and ensemble materials. Junior recital, 315 level.

**MUSU 315 APPLIED TUBA (2 Hours)**

Prerequisite: MUS 215.

Advanced technical study, repertoire development. Velocity and extended range studies; two octave major, minor, chromatic scales, stylistic interpretation; orchestral solo passages, solo and ensemble materials. Junior recital, 315 level.

**MUSU 414 APPLIED TUBA (2 Hours)**

Prerequisite: MUS 315.

Advanced technical study, stylistic interpretation and repertoire development. Intensive study of representative literature for the tuba. Preparation and presentation of senior recital.

**MUSU 424 APPLIED MAJOR TUBA (3 Hours)**

Prerequisite: MUSU 325. MUSU 325.

Advanced study in 20th century tuba literature and tuba techniques, various forms and idioms. Recital performance required. Prerequisite MUSU 325.

**MUSU 428 APPLIED MAJOR TUBA (3 Hours)**

Prerequisite: MUSU 424.

Continued advanced study in 20th century tuba literature and tuba techniques, various forms and idioms. Preparation of selected repertory for the Senior Recital. Senior Recital performance required

## Music-violin (MUSA)

**MUSA 114 APPLIED VIOLA (2 Hours)**

Prerequisite: Freshman standing on viola audition.

Private instruction on developing fundamental techniques of viola playing. Scales, arpeggios, sight-reading, technical studies, solo and ensemble literature.

**MUSA 115 APPLIED VIOLA (2 Hours)**

Prerequisite: Freshman standing on viola audition.

Private instruction on developing fundamental techniques of viola playing. Scales, arpeggios, sight-reading, technical studies, solo and ensemble literature.

**MUSA 214 APPLIED VIOLA (2 Hours)**

Prerequisite: MUSA 115.

Application of technique to performance up to fifth position with standard orchestral bowings; harmonics, double stops and chords in first three positions. Scales, arpeggios, technical studies; solo, ensemble, orchestral literature.

**MUSA 215 APPLIED VIOLA (2 Hours)**

Prerequisite: MUSA 115.

Application of technique to performance up to fifth position with standard orchestral bowings; harmonics, double stops and chords in first three positions. Scales, arpeggios, technical studies; solo, ensemble, orchestral literature.

**MUSA 314 APPLIED VIOLA (2 Hours)**

Prerequisite: MUSA 215.

Continuation of technical study, development of basic musicianship applied to performance skills. Stylistic interpretation, repertory development; selected literature in preparation for junior recital at 315 level.

**MUSA 315 APPLIED VIOLA (2 Hours)**

Prerequisite: MUSA 215.

Continuation of technical study, development of basic musicianship applied to performance skills. Stylistic interpretation, repertory development; selected literature in preparation for junior recital at 315 level.

**MUSA 414 APPLIED VIOLA (2 Hours)**

Prerequisite: MUSA 315 or equivalent.

Advanced technical study; continued development of repertoire, stylistic interpretation, understanding and application of musical concept to performance skills. Preparation and presentation of senior recital.

## Music-violin (MUSN)

**MUSN 114 APPLIED VIOLIN (2 Hours)**

Prerequisite: Freshman standing on violin audition.

Private instruction on developing fundamental techniques of violin playing. Scales, arpeggios, sight-reading, technical studies, solo and ensemble literature.

**MUSN 115 APPLIED VIOLIN (2 Hours)**

Prerequisite: Freshman standing on violin audition.

Private instruction on developing fundamental techniques of violin playing. Scales, arpeggios, sight-reading, technical studies, solo and ensemble literature.

**MUSN 124 APPLIED MAJOR VIOLIN (3 Hours)**

Entrance by audition. In-depth study of Violin - Viola performance techniques, including all major/minor scales and arpeggios, selected technical studies, etudes and standard repertoire. Chamber ensemble and recital performance required.

**MUSN 214 APPLIED VIOLIN (2 Hours)**

Prerequisite: MUSN 115.

Application of technique to performance. Elements of position, tone production, bow management, finger placement covering entire and tonal range in all positions. Standard orchestral bowings, technical studies, solo and ensemble literature.

**MUSN 215 APPLIED VIOLIN (2 Hours)**

Prerequisite: MUSN 115.

Application of technique to performance. Elements of position, tone production, bow management, finger placement covering entire and tonal range in all positions. Standard orchestral bowings, technical studies, solo and ensemble literature.

**MUSN 314 APPLIED VIOLIN (2 Hours)**

Prerequisite: MUSN 215.

Continuation of technical studies, expansion of repertoire and development of performance skills. Junior recital at 315 level.

**MUSN 315 APPLIED VIOLIN (2 Hours)**

Prerequisite: MUSN 215.

Continuation of technical studies, expansion of repertoire and development of performance skills. Junior recital at 315 level.

**MUSN 414 APPLIED VIOLIN (2 Hours)**

Prerequisite: MUSN 315.

Advanced technical study, continued development of repertoire, stylistic interpretation and performance skills. Preparation and presentation of senior recital.

## Music-violoncello (MUSI)

**MUSI 114 APPLIED VIOLONCELLO (2 Hours)**

Prerequisite: Freshman standing on violoncello auditions.

Study and review of basic left and right hand techniques, playing postures and sound production. Two octave scales, arpeggios, double-stops. Selected studies, etudes and solo pieces.

**MUSI 115 APPLIED VIOLONCELLO (2 Hours)**

Prerequisite: Freshman standing on violoncello auditions.

Study and review of basic left and right hand techniques, playing postures and sound production. Two octave scales, arpeggios, double-stops. Selected studies, etudes and solo pieces.

**MUSI 124 APPLIED MAJOR VIOLONCELLO (3 Hours)**

Entrance by audition. In-depth study of cello performance techniques, including all major/minor scales and arpeggios, selected technical studies, clef studies, etudes and standard repertoire. Chamber ensemble and recital performance required.

**MUSI 214 APPLIED VIOLONCELLO (2 Hours)**

Prerequisite: MUSI 115.

Continuation of principles studied previous year with emphasis on bowings, thumb position, scales and arpeggios in three octaves. Concentration on more challenging studies, etudes, ensemble and solo materials.

**MUSI 215 APPLIED VIOLONCELLO (2 Hours)**

Prerequisite: MUSI 115.

Continuation of principles studied previous year with emphasis on bowings, thumb position, scales and arpeggios in three octaves. Concentration on more challenging studies, etudes, ensemble and solo materials.

## Music-voice (MUSV)

**MUSV 114 APPLIED VOICE (2 Hours)**

Prerequisite: Freshman standing on voice audition.

Vocalization for development of tone quality, diction, range, breathing and correct singing posture. Individualized basic musicianship and technical studies. Repertoire Requirements; Eight songs. Four songs per semester. Four Italian and Four English songs from the 17th and 18th centuries. At least three songs are to be memorized per semester.

**MUSV 115 APPLIED VOICE (2 Hours)**

Prerequisite: Freshman standing on voice audition.

Vocalization for development of tone quality, diction, range, breathing and correct singing posture. Individualized basic musicianship and technical studies. Repertoire Requirements; Eight songs. Four songs per semester. Four Italian and Four English songs from the 17th and 18th centuries. At least three songs are to be memorized per semester.

**MUSV 121 OPERA WORKSHOP I (1 Hour)**

Prerequisite: Sophomore voice major or minor.

Offers talented singers the opportunity to perform a variety of opera and operetta music. Students will have the opportunity to perform in staged opera scenes. Proper vocal technique, musical styles and acting are the focal points that will provide young singers with the essential musical, artistic and vocal skills needed to begin a career in opera.

**MUSV 122 OPERA WORKSHOP I (1 Hour)**

Prerequisite: Sophomore voice major or minor.

Offers talented singers the opportunity to perform a variety of opera and operetta music. Students will have the opportunity to perform in staged opera scenes. Proper vocal technique, musical styles and acting are the focal points that will provide young singers with the essential musical, artistic and vocal skills needed to begin a career in opera.

**MUSV 124 APPLIED VOICE MAJOR (3 Hours)**

Prerequisite: Freshman standing on voice audition.

Vocalization for development of tone quality, diction, range, breath management, and poetic interpretation and correct singing posture. Individualized technical studies. Repertoire requirement; Five songs per semester; Four English and Four Italian songs of the 17th and 18th centuries and Two Twentieth Century American art songs. At least Four memorized per semester.

**MUSV 125 APPLIED VOICE MAJOR (3 Hours)**

Prerequisite: Freshman standing on voice audition.

Vocalization for development of tone quality, diction, range, breath management, and poetic interpretation and correct singing posture. Individualized technical studies. Repertoire requirement; Five songs per semester; Four English and Four Italian songs of the 17th and 18th centuries and Two Twentieth Century American art songs. At least Four memorized per semester.

**MUSV 131 OPERA WORKSHOP II (1 Hour)**

Prerequisite: Junior voice major or minor.

**MUSV 132 OPERA WORKSHOP II (1 Hour)**

Prerequisite: Junior voice major or minor.

**MUSV 141 OPERA WORKSHOP III (1 Hour)**

Prerequisite: Senior voice major or minor.

**MUSV 142 OPERA WORKSHOP III (1 Hour)**

Prerequisite: Senior voice major or minor.

**MUSV 214 APPLIED VOICE (2 Hours)**

Prerequisite: MUSV 115.

A continuation of basic musicianship and technical studies. Repertoire requirements. Five songs per semester; two selected from the Oratorio repertoire, Two French chanson, Two German lieder, Two American art songs or sacred songs, Two Operatic arias. At least four are to be memorized per semester.

**MUSV 215 APPLIED VOICE (2 Hours)**

Prerequisite: MUSV 115.

A continuation of basic musicianship and technical studies. Repertoire requirements. Five songs per semester; two selected from the Oratorio repertoire, Two French chanson, Two German lieder, Two American art songs or sacred songs, Two Operatic arias. At least four are to be memorized per semester.

**MUSV 224 APPLIED VOICE MAJOR (3 Hours)**

Prerequisite: MUSV 125.

Continuation of basic musicianship and technical studies. Interpretation and Character analysis. Repertoire Requirements; Six songs per semester, Three French songs, Three German songs and Three Twentieth Century American art songs. Two Oratorio arias and one Operatic aria. At least Five memorized per semester. Satisfactory on the Sophomore Proficiency is required.

**MUSV 225 APPLIED MAJOR VOICE (3 Hours)**

Prerequisite: MUSV 125.

Continuation of basic musicianship and technical studies. Interpretation and Character analysis. Repertoire Requirements; Six songs per semester, Three French songs, Three German songs and Three Twentieth Century American art songs. Two Oratorio arias and one Operatic aria. At least Five memorized per semester. Satisfactory on the Sophomore Proficiency is required.

**MUSV 314 APPLIED VOICE (2 Hours)**

Prerequisite: MUSV 215.

Continuation of technical studies with more emphasis on musical style, interpretation and performance practice. Repertoire requirements: Twelve new songs. Six new songs each semester. Three American art songs, Three German lieder, Three French chanson, Two oratorio or cantata arias, and one operatic aria. At least five are to be memorized per semester. Junior Recital at the 315 level.

**MUSV 315 APPLIED VOICE (2 Hours)**

Prerequisite: MUSV 215.

Continuation of technical studies with more emphasis on musical style, interpretation and performance practice. Repertoire requirements: Twelve new songs. Six new songs each semester. Three American art songs, Three German lieder, Three French chanson, Two oratorio or cantata arias, and one operatic aria. At least five are to be memorized per semester. Junior Recital at the 315 level.

**MUSV 324 APPLIED VOICE MAJOR (3 Hours)**

Prerequisite: MUSV 225.

Continuation of vocal technique with more emphasis on musical style and interpretation. Repertoire requirement; Eight Songs per semester; Four French songs, Four German songs, Four American art songs, Two Oratorio or Cantata arias and Two Operatic arias. At least Six memorized per semester. Preparation for junior recital. Junior Recital required at level 325.

**MUSV 325 APPLIED VOICE MAJOR (3 Hours)**

Prerequisite: MUSV 225.

Continuation of vocal technique with more emphasis on musical style and interpretation. Repertoire requirement; Eight Songs per semester; Four French songs, Four German songs, Four American art songs, Two Oratorio or Cantata arias and Two Operatic arias. At least Six memorized per semester. Preparation for junior recital. Junior Recital required at level 325.

**MUSV 414 APPLIED VOICE (2 Hours)**

Prerequisite: MUSV 315.

Advanced vocal technique and literature. Greater emphasis on performance practice and communicative skills. Repertoire requirements: Twelve new songs. Six new songs per semester. One song cycle or chamber work. Three French chanson, Three German lieder, Three American art songs or sacred songs. At least five songs are to be memorized per semester. Preparation and presentation of senior recital.

**MUSV 415 SENIOR RECITAL (JAZZ) (3 Hours)**

Prerequisite: MUSV 414.

Advanced vocal study beyond the preparation of senior recital. Elective.

**MUSV 424 APPLIED VOICE MAJOR (3 Hours)**

Prerequisite: MUSV 325, Advanced vocal technique and vocal literature. Greater emphasis on musical style, interpretation and performance practice. Repertoire Requirements; Eight songs per semester; (Must include one complete song cycle) Two Oratorio or Cantata Arias, Two Operatic arias, Three American art songs, Three French songs, Three German songs. At least Six memorized per semester. Preparation for senior recital. Senior recital performance required at level 428.

**MUSV 428 APPLIED VOICE MAJOR (3 Hours)**

Prerequisite: MUSV 325, Advanced vocal technique and vocal literature.

Greater emphasis on musical style, interpretation and performance practice. Repertoire Requirements; Eight songs per semester; (Must include one complete song cycle) Two Oratorio or Cantata Arias, Two Operatic arias, Three American art songs, Three French songs, Three German songs. At least Six memorized per semester. Preparation for senior recital. Senior recital performance required at level 428.

**MUSV 435 SONG LITERATURE II (3 Hours)**

Prerequisite: MUSV 433.

An advanced survey of literature for solo voice(s) from the English Lutenists to literature of the 21st century. A study of interpretation both practical and within historical context and program building are included, along with a review of song study techniques.

## Music-woodwind ensemble (MUWE)

**MUWE 101 WIND ENSEMBLE I (0.5 Hours)**

Prerequisite: Audition required.

This ensemble is the university's premier instrumental ensemble. Repertoire for the ensemble is chosen from the entire spectrum of wind ensemble and concert band literature and includes everything from new commissions to traditional literature to music of other cultures. The ensemble keeps an active rehearsal and travel schedule both regionally and nationally. Membership is by audition.

**MUWE 102 WIND ENSEMBLE II (0.5 Hours)**

Prerequisite: Audition required.

This ensemble is the university's premier instrumental ensemble. Repertoire for the ensemble is chosen from the entire spectrum of wind ensemble and concert band literature and includes everything from new commissions to traditional literature to music of other cultures. The ensemble keeps an active rehearsal and travel schedule both regionally and nationally. Membership is by audition.

**MUWE 121 WIND ENSEMBLE III (0.5 Hours)**

Prerequisite: Audition required.

This ensemble is the university's premier instrumental ensemble. Repertoire for the ensemble is chosen from the entire spectrum of wind ensemble and concert band literature and includes everything from new commissions to traditional literature to music of other cultures. The ensemble keeps an active rehearsal and travel schedule both regionally and nationally. Membership is by audition.

**MUWE 122 WIND ENSEMBLE IV (0.5 Hours)**

Prerequisite: Audition required.

This ensemble is the university's premier instrumental ensemble. Repertoire for the ensemble is chosen from the entire spectrum of wind ensemble and concert band literature and includes everything from new commissions to traditional literature to music of other cultures. The ensemble keeps an active rehearsal and travel schedule both regionally and nationally. Membership is by audition.

**MUWE 131 WIND ENSEMBLE V (0.5 Hours)**

Prerequisite: Audition required.

This ensemble is the university's premier instrumental ensemble. Repertoire for the ensemble is chosen from the entire spectrum of wind ensemble and concert band literature and includes everything from new commissions to traditional literature to music of other cultures. The ensemble keeps an active rehearsal and travel schedule both regionally and nationally. Membership is by audition.

**MUWE 132 WIND ENSEMBLE VI (0.5 Hours)**

Prerequisite: Audition required.

This ensemble is the university's premier instrumental ensemble. Repertoire for the ensemble is chosen from the entire spectrum of wind ensemble and concert band literature and includes everything from new commissions to traditional literature to music of other cultures. The ensemble keeps an active rehearsal and travel schedule both regionally and nationally. Membership is by audition.

**MUWE 141 WIND ENSEMBLE VII (0.5 Hours)**

Prerequisite: Audition required.

This ensemble is the university's premier instrumental ensemble. Repertoire for the ensemble is chosen from the entire spectrum of wind ensemble and concert band literature and includes everything from new commissions to traditional literature to music of other cultures. The ensemble keeps an active rehearsal and travel schedule both regionally and nationally. Membership is by audition.

**MUWE 142 WIND ENSEMBLE VIII (0.5 Hours)**

Prerequisite: Audition required.

This ensemble is the university's premier instrumental ensemble. Repertoire for the ensemble is chosen from the entire spectrum of wind ensemble and concert band literature and includes everything from new commissions to traditional literature to music of other cultures. The ensemble keeps an active rehearsal and travel schedule both regionally and nationally. Membership is by audition.

## Philosophy (PHIL)

**PHIL 301 INTRODUCTN TO PHILOSOPHY (3 Hours)**

Four principal types: metaphysics, epistemology, logic, ethics. Illustrated from classical, medieval and modern philosophic systems.

**PHIL 308 AESTHETICS (3 Hours)**

Nature of artistic perception. Major theorists from Greece to modern period. Socio-economic influences from larger cultural settings. Place of artist in society.

**PHIL 309 ETHICS (3 Hours)**

Representative thinkers from the pre-Axial Age up to the modern period focusing on capacities for analysis and critical thinking.

**PHIL 416 LOGIC (3 Hours)**

Development of normative mental act in classical deductive and inductive forms, up to the syllogism. Relation of logical structure to effective communication.

## Physical Education (PE)

**PE 101 ARCHERY & GOLF (1 Hour)**

Emphasis is given to the fundamentals of archery and golf. The student is taught how to select, purchase, and maintain equipment. Development of fundamental skills in archery and golf is the basic concern of this course. The student will be given experiences using various clubs. The course includes actual course play generally culminating in a tournament. (F, S)

**PE 102 BADMINTON AND TENNIS (1 Hour)**

Emphasis is given to the fundamentals of badminton and tennis. This includes the basic strokes, serves, and court movements. The student will also receive instruction on selection, purchase and maintenance of equipment. (F, S)

**PE 104 BOWLING (1 Hour)**

This course is designed for the beginner bowler. The main emphasis of this course is to acquaint the student with the fundamentals of bowling. (F, S)

**PE 109 BEGINNING SWIMMING (1 Hour)**

This course gives basic skills of swimming, including the adjustment to the water, breathing, floating, propulsion through the water by use of the elementary stroke, backstroke, front crawl, finning, sculling, and safety. (F, S, Sum)

**PE 113 BEGINNING MODERN DANCE (1 Hour)**

This course is designed to give the student a background in Modern Dance and its pioneers. It is designed to develop a movement vocabulary and instruction in organization of dance moves into finished compositions. (F)

**PE 150 BASKETBALL & VOLLEYBALL (1 Hour)**

This course is designed to give the students richer background in the game of basketball and volleyball. Fundamentals and game strategies will be stressed. (F, S)

**PE 155 SOFTBALL (1 Hour)****PE 222 INTRO TO PHYSICAL EDUCATION (3 Hours)**

Prerequisite: PE 122.

This course is a study of the purpose, history, requirements, and opportunities for a career in physical education. (S)

**PE 231 INTERMEDIATE SWIMMING (1 Hour)**

Prerequisite: PE 109 or Deep Water Proficiency.

In this course emphasis is placed on improving skills in the standard swimming strokes particularly the American Crawl, side stroke, breast stroke, back crawl, and elementary backstroke. (F, S, Sum)

**PE 253 BODY MECHANICS & WT CONT (1 Hour)**

The basic intent of this course is to improve body carriage, posture, physical condition, and structure. The student will be exposed to a variety of exercises, weights, and machines. (F)

**PE 309 ELE & SEC FOLK & ETH & RHY DAN (1 Hour)**

This course gives instruction in dances of a specific people, including related cultural readings. Emphasis will be placed on dances of American and Afro-American people. (F, S)

**PE 319 KINESIOLOGY (3 Hours)**

Prerequisite: BIO 234 and BIOL 234.

This course is a study of the mechanics of body movement including form and style in athletic performance, and an analysis of muscle coordination in sports, gymnastics and ordinary activities of daily life. (F)

**PE 320 ADAPTED PHYSICAL EDUCATN (3 Hours)**

This course is a study of procedures and practices for programs that meet the needs of those students who have various disabling conditions. (F, S)

**PE 322 MOTOR DEV & MOVE EDUCATI (3 Hours)**

Prerequisite: Anatomy and PE 319 Kinesiology.

This course is designed to give students a broad and comprehensive view of the field of motor development and movement education. Students will study prenatal to neonatal development, early motor sequence, perceptual motor area, and competition and the pre-adolescent child. (S)

**PE 323 ORGAN& ADMN OF PHY EDUCATION (3 Hours)**

Prerequisite: PE 222.

This course is a study of the physical education and athletic program including staffing, teaching load, time schedule, finance, public relations, school plant operation, legal implications, and maintenance. (F, S)

**PE 350 MEASUR EVALUAT & STATIST (3 Hours)**

This course is a study of the theory and methods of test administration, evaluation and interpretation of measurement data. The development of basic competencies in use of descriptive statistics and correlation and the evaluation and grading in the physical education program are emphasized. (F, S)

**PE 360 PHYSIOLOGY OF MUSCULAR A (3 Hours)**

Prerequisite: BIO 234, BIOL 234, and PE 319.

This course is a study of the nature of body variation during and resulting from physical exertion. Laboratory experiences deal with physical work capacity, reaction time, cardiovascular stress and anthropometric measures and evaluation. (S)

**PE 411 METHODS IN PHY EDUCATION (3 Hours)**

This course in leadership, practices, and teaching physical education activities with adaptations to different age groups. Teaching methods are discussed in the classroom and provision is made for practice in classroom situations. (F, S)

**PE 415 INDIVIDUAL, AND TEAM SPORTS (3 Hours)**

In this course emphasis is given to teaching students the progressive skills involved in a variety of individual, dual and team sports. Selection of equipment, tournament planning as well as facilities are discussed. This course is also designed to give students the opportunity to participate and develop competencies in individual and team sports. It is further a purpose of this course that students learn teaching methodology in specific sports activities for elementary and secondary schools. (F)

**PE 445 PHY EDUC IN ELEM SCHOOL (3 Hours)**

In this course emphasis is paced on methods and materials used in the effective teaching of physical education in the elementary school. Consideration is given to the integration of physical education with other subject matter areas. (F, S, Sum)

## Physics (PHY)

**PHY 151 INTRODUCTION TO PHYSICS (3 Hours)**

An introduction to some of the basic concepts of physics, intended both for non-science majors seeking scientific literacy and also for students who desire some experience in physics before taking PHY 201 or 11. This course satisfies the Core II physical science requirement.

**PHY 198 PHYSICS STUDENT SEMINAR (0.5 Hours)**

Presentation and discussion of current physics topics and research by students, faculty and visiting speakers. All physics majors are expected to participate.

**PHY 199 PHYSICS STUDENT SEMINAR (0.5 Hours)**

Presentation and discussion of current physics topics and research by students, faculty and visiting speakers. All physics majors are expected to participate.

**PHY 201 BASIC PHYSICS I (3 Hours)**

Prerequisite: MATH 111 and 112, or MATH 118.

Introduction to mechanics, wave motion, sound, and heat, for science majors whose curricula may not include calculus.

**PHY 202 BASIC PHYSICS II (3 Hours)**

Prerequisite: PHY 201.

A continuation of PHY 201. Introduction to electricity, magnetism, optics, and modern physics.

**PHY 205 BASIC PHYSICS (3 Hours)****PHY 211 General Physics I (3 Hours)**

Prerequisite: Minimum grade of C in MATH 241.

Introduction to mechanics, wave motion, sound, and heat. Calculus-based and more intensive than PHY 201.

**PHY 212 General Physics II (3 Hours)**

Prerequisite: Minimum grade of C in MATH 241 and PHY/L 211.

A calculus-based continuation of PHY 211. Introduction to electricity, magnetism, optics, and modern physics.

**PHY 216 MODERN PHYSICS (3 Hours)**

Prerequisite: PHY 212.

An introduction to relativity and quantum effects including atomic structure and spectra, nuclear structure and reactions, and high-energy physics.

**PHY 241 INTRODUCTN TO ASTRONOMY (4 Hours)**

An introductory survey of the solar system, stars, nebulae, and galaxies, with discussion of cosmology, life in the universe, and the space program. Includes weekly observatory sessions. This course satisfies the Core II physical science requirement.

**PHY 251 COSMOLOGY FOR NON-SCIENTISTS (4 Hours)**

A study of the structure, origin, and evolution of the universe. Includes relevant basic astronomy and discussion of fundamental observations.

**PHY 297 Research Methods in Physics (2 Hours)**

Prerequisite: Sophomore or Junior and consent of instructor.

This course reinforces concepts learned in advanced science, technology, engineering, and mathematics (STEM) courses helping students to develop critical thinking, writing, research, presentation and analysis skills. The problems presented are analyzed by the class and solutions proposed. Both individual and team development of the solutions proceed.

**PHY 298 PHYSICS STUDENT SEMINAR (0.5 Hours)**

Presentation and discussion of current physics topics and research by students, faculty and visiting speakers. All physics majors are expected to participate.

**PHY 299 PHYSICS STUDENT SEMINAR (0.5 Hours)**

Presentation and discussion of current physics topics and research by students, faculty and visiting speakers. All physics majors are expected to participate.

**PHY 311 THEORETICAL MECHANICS I (3 Hours)**

Prerequisite: PHY 211, and MATH 232.

A modern treatment of classical mechanics including single-particle dynamics, oscillations, gravitation, the calculus of variations. Lagrangian and Hamiltonian dynamics, and central-force motion.

**PHY 312 THEORETICAL MECHANICS II (3 Hours)**

Prerequisite: PHY 311.

A continuation of PHY 311 including study of systems of particles, noninertial reference frames, rigid-body dynamics, coupled oscillations, continuous systems, the wave equation, and the special theory of relativity.

**PHY 330 METHODS OF EXPERIMENTAL PHYSICS (3 Hours)**

Prerequisite or Corequisite: PHY 216.

Primarily a laboratory course, comprised of lectures and advanced experiments in electronics, optics, modern physics, and astronomy. Satisfies writing across the curriculum requirements.

**PHY 342 OPTICS SPECTRA & LASERS (3 Hours)**

Prerequisite: PHY 216.

A lecture course in modern optics covering geometrical, wave, and quantum optics, and modern optical technology, with applications to atomic spectroscopy and lasers.

**PHY 351 THERMAL PHYSICS (3 Hours)**

Prerequisite: PHY 212.

A study of equations of state, the laws of thermodynamics, thermodynamic potentials, statistical thermodynamics, kinetic theory, and elementary statistical mechanics.

**PHY 361 MATH MET OF PHYSICS & CHEMISTRY (3 Hours)**

Prerequisite: PHY 212.

An introduction to advanced techniques of applied mathematics used in physics and chemistry, including applied linear algebra, ordinary differential equations, and Laplace's equation.

**PHY 362 MATH MET OF PHYSICS & CHEMISTRY (3 Hours)**

Prerequisite: PHY 361.

A continuation of PHY 361, including vector calculus, Fourier series and orthogonal expansions, Fourier integrals, complex variables and conformal mappings, complex integration, and the heat and wave equations.

**PHY 380 INDEPENDENT STUDY (1-6 Hours)****PHY 398 PHYSICS STUDENT SEMINAR (0.5 Hours)**

Presentation and discussion of current physics topics and research by students, faculty and visiting speakers. All physics majors are expected to participate.

**PHY 399 PHYSICS STUDENT SEMINAR (0.5 Hours)**

Presentation and discussion of current physics topics and research by students, faculty and visiting speakers. All physics majors are expected to participate.

**PHY 411 ELECTROMAGNETIC THEORY I (3 Hours)**

Prerequisite: PHY 362.

A study of static electric and magnetic fields including Gauss's Law, Ampere's Law, and the solution of Laplace's equation.

**PHY 412 ELECTROMAGNETIC THEORY II (3 Hours)**

Prerequisite: PHY 411.

A continuation of PHY 411 including study of time-dependent fields, Maxwell's equations, electromagnetic wave and radiation.

**PHY 422 QUANTUM MECHANICS (3 Hours)**

Prerequisite: PHY 216 and 362.

An introduction to quantum mechanics wave functions, and the Schrodinger equation, including solution of the Schrodinger equation for a box, barrier, square well, harmonic oscillator, and the hydrogen atom.

**PHY 431 ATOMIC & NUCLEAR PHYSICS (3 Hours)**

Prerequisite: PHY 422.

A lecture course comprising a study of the properties of atoms and nuclei, and review of classic experiments, and an investigation of related applications of quantum mechanics.

**PHY 433 SOLID STATE PHYSICS (3 Hours)**

Prerequisite: PHY 216 and 422.

An introduction to solid state physics including crystal structures, electron and mechanical waves in crystals, semiconductors, electric and magnetic properties of solids, and point defects in crystals.

**PHY 449 SPECIL TOPICS IN PHYSICS (3 Hours)**

Prerequisite: Approval of instructor.

Advanced specialized topic courses selected on the basis of faculty and student interest. This course may be repeated for credit.

**PHY 480 RESEARCH PROJECT (3 Hours)**

Prerequisite: Approval of instructor.

Supervised original research by the individual student on a problem selected in consultation with the faculty. This course may be repeated for credit.

**PHY 481 PHYS. SCI. FOR SEC. TEACHERS I (3 Hours)****PHY 482 PHY SCI FOR SEC TEACHERS II (3 Hours)****PHY 498 PHYSICS STUDENT SEMINAR (0.5 Hours)**

Presentation and discussion of current physics topics and research by students, faculty and visiting speakers. All physics majors are expected to participate.

**PHY 499 PHYSICS STUDENT SEMINAR (0.5 Hours)**

Presentation and discussion of current physics topics and research by students, faculty and visiting speakers. All physics majors are expected to participate.

## Physics Lab (PHYL)

**PHYL 201 BASIC PHYSICS LAB I (1 Hour)**

Corequisite: PHY 201.

Weekly laboratory experiments in the ares covered in PHY 201.

**PHYL 202 BASIC PHYSICS LAB II (1 Hour)**

Prerequisite: PHYL 201.

Corequisite: PHY 202.

Weekly laboratory experiments in the areas covered in PHY 202.

**PHYL 211 GENERAL PHYSICS LAB I (1 Hour)**

Corequisite: PHY 211.

Weekly laboratory experiments in the areas covered in PHY 211.

**PHYL 212 GENERAL PHYSICS LAB II (1 Hour)**

Prerequisite: PHYL 211.

Corequisite: PHY 212.

Weekly laboratory experiments in the areas covered in PHY 212.

## Political Science (PS)

**PS 134 INTRO TO POLIT SCIENCE (3 Hours)**

An introduction to the discipline of political science, its concepts and methods of analysis.

**PS 135 AMERICAN GOVERNMENT (3 Hours)**

Prerequisite: PS 134.

Survey of the constitutional basis, organization, and functioning of the American national government; the principles underlying constitutional government, citizenship, civil rights, and political institutions.

**PS 136 STATE & LOCAL GOVERNMENT (3 Hours)**

Prerequisite: PS 134.

The role of the state and local governments in the federal system: political institutions, elections, the organization, functions, and problems of state and local government, with special emphasis on Mississippi Government.

**PS 236 POLITICAL STATISTICS (3 Hours)**

An examination of a set of techniques for describing groups of data and for making decisions related to the allocation of political resources.

**PS 238 INTRO TO COMPAR POLITICS (3 Hours)**

Prerequisite: PS 134.

An introduction to the basic concepts and approaches in comparative politics and the application of these concepts and approaches to major regions of the world.

**PS 270 Film and Politics (3 Hours)**

The purpose of this course is to provide an understanding of the rule of the media in the political system. Both historical and current political trends will be highlighted as they are deliberated and analyzed by the media as well as the advantages and challenges that come with digital media and the 24/7 news cycle. We arc in an election year. We will pay special attention to the changing climate of political expression in the online age, as well.

**PS 290 Racism in American Politics (3 Hours)**

This course will review the American political system and engage students in courageous conversations as means of inspiring them to think critically about race and its role in society and politics.

**PS 320 LEGAL RESEARCH AND WRITING (3 Hours)**

Introduction to the basic research and writing techniques in law. Special emphasis will be placed upon the use of legal reference materials such as reporters, legal encyclopedias, digests and Periodicals, and lexis.

**PS 341 African American Politics (3 Hours)**

A study of the role of black people in the American political process. Consideration will be given to the impact of American institutions upon black people in America and the diaspora.

**PS 342 POLITICAL PHILOSOPHY (3 Hours)**

Prerequisite: PS 135.

An introductory analysis of the major works in political thought from Plato to John Locke with special attention placed on relevance of the political tracts in examining recent political problems. Open to juniors and seniors only.

**PS 343 POLITICAL PHILOSPHY (3 Hours)**

Prerequisite: PS 135.

An introductory analysis of the major works in political thought from Montesquieu to Mao tse-tung, with special attention placed on the relevance of the political tracts in examining recent political problems. Open to juniors and seniors only.

**PS 346 CIVIL RIGHTS & LIBERTIES (3 Hours)**

Prerequisite: PS 135.

A study of development in the field of civil rights under the Bill of Rights and the Fourteenth Amendment to the United States Constitution, and under federal and state legislation.



**PS 347 Judicial Politics (3 Hours)**

Prerequisite: PS 135.

An analysis of the structure and functions of judicial systems emphasizing the organization, administration and politics of judicial bureaucracies and roles of judges, juries, counsel, litigants and interest groups in the adjudication process.

**PS 350 AME POLIT PARTIES & PRES (3 Hours)**

Prerequisite: PS 135.

The nature and functions of political parties; nominations; elections and the role of interest groups in the political process.

**PS 351 THE AMERICAN PRESIDENCY (3 Hours)**

Prerequisite: PS 135.

A consideration of the nature, powers, and functions of the American Presidency with emphasis on executive congressional relations and presidential leadership in foreign and domestic affairs.

**PS 352 MODERNIZA & POLITI CHAN (3 Hours)**

Prerequisite: PS 238.

An analysis of political and social problems associated with modernization in the non-western world. Empirical focus is placed on two or more developing regions.

**PS 364 Public Opinion and Political Psychology (3 Hours)**

This course is about the importance of public opinion in U.S. politics. The purpose of this course is to present an accounting of the role of public opinion in the democratic politics of the U. S. The course provides discussion of the contemporary literature on public opinion including political psychology. This course is generally designed to provide an understanding of the major ideas and concepts in public opinion and political psychology.

**PS 365 Voting and Elections (3 Hours)**

This course is about American electoral politics. It explores critical and controversial issues that confront our political system. We will examine American democracy in theory and practice key aspects of electoral politics that will be covered including the electoral process (the nomination, campaigns, and election of public officials), suffrage and turnout. voting behavior, candidates, public policy issues, representation, partisanship, money, and the media.

**PS 376 LSAT SURVEY (3 Hours)**

An analysis and survey of the mechanics, techniques and content of the Law School Admissions Test.

**PS 390 INTERNSHIP IN POLITICAL SCIENC (3 Hours)**

Supervised field work with public and political related organizations and agencies. Students receive may work as staff assistants, conduct research and write reports, memos, engage in administrative duties, campaign duties, communications, and canvassing. No student may receive more than a total of fifteen (15) semester hours in political science from the internship program.

**PS 423 CONSTITUTIONAL LAW I (3 Hours)**

This is the first of a two semester course which will examine the philosophy and constitutional growth of Supreme Court decisions. Emphasis in this portion is on the limitations imposed upon governmental interferences with individual rights.

**PS 424 CONSTITUTIONAL LAW II (3 Hours)**

This is the second part of a two semester course which examines the limitations placed upon the federal and state government.

**PS 425 ENVIRONMENT LAW (3 Hours)**

Prerequisite: PS 432.

Primary emphasis upon the regulation of air and water pollution at the national, state, and regional levels and the political, social and economic considerations behind these laws.

**PS 431 AFRICIAN INTERNAT RELATI (3 Hours)**

This course is designed to study and analyze the role of African countries and organizations in the global political system.

**PS 432 INTRODUCTION TO LAW I (3 Hours)**

Prerequisite: PS 135.

This is the first part of a two-semester courses which examines the role of law in society. Emphasis is on the nature of law and the variety of legal mechanisms that exist in society.

**PS 433 INTRODUCTION TO LAW II (3 Hours)**

Prerequisite: PS 135.

This is the second part of a two-semester course which examines the processes of how law functions to meet the political, social and economic needs of society.

**PS 437 INTERNATIONAL RELATIONS (3 Hours)**

Prerequisite: PS 428.

Nature of international relations, problems of national power, the state system, diplomacy, war and peace.

**PS 444 POLITICS IN SOUTHERN AFR (3 Hours)**

Prerequisite: PS 429.

This course is designed to examine the post apartheid South Africa and the role of South Africa's race relations after apartheid. South Africa's relations with the neighboring states, other African countries, the United States and the global community will be analyzed.

**PS 446 SCOPE AND METHODS (3 Hours)**

Prerequisite: PS 236.

This course is designed to introduce students of political science to critical epistemological and methodological issues, to the philosophy of science and to the scientific and intellectual issues that characterize major trends in the discipline.

**PS 447 SENIOR RESEARCH SEMINAR (3 Hours)**

Prerequisite: PS 446.

This course is designed for students of Political Science. It is an attempt to integrate research methods with the substance of politics. Statistical techniques and illustrative application of the computer will be utilized focusing on political research.

**PS 450 URBAN POLITICS (3 Hours)**

This course will examine the concept of community and the political process in a variety of American localities. An examination of the black community with special emphasis upon political problems will be examined.

**PS 453 INDEPEND STUDY & DIR REA (3 Hours)**

Prerequisite: Senior standing, 2.

00 grade point average in major courses, and consent of instructor (a specialist in the area of study).

**PS 473 LEGISLATIVE POLITICS (3 Hours)**

Analytical treatment of the law-making functions of the national and state legislatures and their place in the political system.

**PS 484 INTER-GOVERNMENTAL RELATIONS (3 Hours)**

Prerequisite: PS 371.

Evolution of the American Federal System; consideration of inter-unit cooperation and conflict; review of administrative issues like revenue sharing, federal grants and regulations.

**PS 490 Computer-Assisted Research in the Legal Environment (3 Hours)**

This course will teach students how to locate credible sources on the law using relevant search engines. This course provides imperative insight on filing mechanisms used in the State of Mississippi. Students will draft closed memorandum for supervising attorney as a paralegal (in office view). The students will determine what information is relevant to client's case by distinguishing between key facts, background facts, and irrelevant facts. Students will develop skills necessary to properly apply information as it pertains to client's.

**PS 491 Law Office Management and Technology (3 Hours)**

This course examines applications of computer software and hardware in the legal environment including legal applications of word processing, databases, and spreadsheets. It also covers legal software for document generation, document management, fiscal management, time billing, time and document management, computer-assisted legal research, and information management in the workflow process.

**PS 492 Trial Preparation (3 Hours)**

This course provides a comprehensive overview of the criminal and civil trial processes, and preparation for trial of criminal and civil cases, as studied through case law, procedures, techniques, and strategies.

**PS 493 eDiscovery for Paralegals (3 Hours)**

This course will introduce students to the eDiscovery process. This course will analyze the entire eDiscovery process including preparation, requests, collection, and review of Electronically Stored Information (ESI). The course will teach students how to properly prepare their clients for deposition and how to respond to requests.

**PS 494 Paralegal Internship (3 Hours)**

This course encompasses field work experience in a private sector law office, corporation, bank, or public sector agency. This course will supplement the experiential component and includes discussion of field work experience, ethical considerations, and career options.

## Principle Centered Leadership (CLL)

**CLL 104 WORKFORCE COMU,BEHAVR & CULTUR (3 Hours)**

This course is designed to introduce working adults to the practices of collaborative learning in education and professional (workforce) environments. The course is intended to help students understand group dynamics in the workforce, enhance written and oral expression, and improve reading comprehension, critical thinking, and cultural intelligence.

**CLL 120 INTRO TO INTERDSCPLNARY STDYS (3 Hours)**

This course is designed to introduce students to interdisciplinary studies as an academic field. Students will learn the key terms, major periods of development, and the principles that guide interdisciplinary inquiry. Additionally, students will compose a rationale for selecting an interdisciplinary degree studies program, and they will consult with an academic advisor to develop their interdisciplinary studies degree plan.

**CLL 301 PRINCIPLE-CENTERED LEADERSHIP (3 Hours)**

The objective of this course is to help each participant increase proactive behavior, become more opportunity minded, increase self-esteem and build on mission and values. This course will empower people and organizations to significantly enhance their performance capability, both personally and professionally.

**CLL 383 RESEARCH TOOLS & FUNDAMENTALS (3 Hours)****CLL 480 INDEPENDENT STUDY (1-3 Hours)**

This course provides students with the skills needed to conduct research and write substantive reports in both academia and practical work situations. Students are provided an opportunity to explore topics through interdisciplinary studies that they cannot adequately pursue in a traditional degree program. Students will engage in research which results in case or observation studies, research studies, research reports, or literature reviews/abstracts.

**CLL 481 SPECIALIZED PROFESSIONAL TRAIN (1-3 Hours)**

This course is designed to support students in their efforts to complete quality research projects in their prospective field. Students will select a topic, design studies, select appropriate permission, conduct projects, analyze results and prepare written reports. Students will also be required to present their findings to their fellow students. Extra credit will be given to students that present their research findings at professional conferences. Students will also be highly encouraged to submit their findings in article format to professional journals for possible publication.

**CLL 482 INTERNSHIP (3 Hours)**

This course provides valuable work-learn experience in a professional environment outside of the classroom. Students will be able to explore many different career areas, gain practical skills, and make industry contacts. A minimum of 150 clock hours of on-site training with a relevant agency is required for successful completion of this course.

**CLL 483 SPCL FIELD RESEARCH PROJECTS (2 Hours)**

This course is designed to support students in their efforts to complete quality research projects in their prospective field. Students will select a topic, design studies, select appropriate permission, conduct projects, analyze results and prepare written reports. Students will also be required to present their findings to their fellow students. Extra credit will be given to students that present their research findings at professional conferences. Students will also be highly encouraged to submit their findings in article format to professional journals for possible publication.

## Psychology (PSY)

**PSY 111 INTRODUCTN TO PSYCHOLOGY (3 Hours)**

Fundamental topics and methodology in the scientific study of behavior.

**PSY 112 INTRODUCTN TO PSYCHOLOGY (3 Hours)**

Prerequisite: PSY 111 or equivalent.

A continuation of PSY 111.

**PSY 201 GENERAL PSYCHOLOGY (3 Hours)**

A broad survey of the traditional topics in psychology. (Not for psychology majors.)

**PSY 211 STATISTICS I (3 Hours)**

Prerequisite: PSY 111 or equivalent, 112, and MATH 111 or equivalent. Collection and organization of data; central tendency, variability and correlation; elementary probability theory; basic inferential procedures, including large and small sample tests of differences between two groups and an introduction to the analysis of variance.

**PSY 212 STATISTICS II (3 Hours)**

Prerequisite: PSY 211.

Analysis of variance; non-parametric techniques, selected advanced topics.

**PSY 214 DEVELOPMENTAL PSYCHOLOGY (3 Hours)**

Prerequisite: PSY 111 or equivalent, and 112.

Genetic background, prenatal development, infancy and childhood, early experience and personality development; adolescence and adulthood; conflicts, roles and adjustment mechanisms.

**PSY 216 ABNORMAL PSYCHOLOGY (3 Hours)**

Prerequisite: PSY 111 or equivalent, 112, and 214.

Historical overview of abnormal psychology; criteria of abnormal behavior; symptomatology and dynamics of psychological disorders; therapeutic considerations.

**PSY 304 CHILD PSYCHOLOGY (3 Hours)**

Prerequisite: PSY 201 or equivalent.

The systematic study of the development and behavior of the human from conception to puberty. (Not for psychology majors.)

**PSY 305 ADOLESCENT PSYCHOLOGY (3 Hours)**

Prerequisite: PSY 201 or equivalent.

Influence on development and behavior of the human from puberty to adulthood. (Not for psychology majors.)

**PSY 306 EDUCATIONAL PSYCHOLOGY (3 Hours)**

Prerequisite: PSY 111 or equivalent, and 112.

Application of psychological principles of student learning and achievement, teaching methods, and performance assessment.

**PSY 310 PERSONALITY (3 Hours)**

Prerequisite: PSY 111 or equivalent, 112, 214, and junior standing.

Biological, learning, social and psychometric-trait approaches with emphasis on methodology and the relation of research findings to theoretical perspectives.

**PSY 312 PSYCHOLOGY OF ADJUSTMENT (3 Hours)**

Prerequisite: PSY 111 or equivalent, and 112.

Socioemotional adjustment and personality; interpersonal and intrapersonal relationships; normal personality development and mechanisms of adjustment.

**PSY 314 SOCIAL PSYCHOLOGY (3 Hours)**

Prerequisite: PSY 111 or equivalent, 112, 214, and junior standing.

A detailed examination of social behavior from various theoretical viewpoints, with an emphasis on possible causes of and solutions to contemporary social problems.

**PSY 315 PHYSIOLOGICAL PSYCHOLOGY I (3 Hours)**

Prerequisite: PSY 111 or equivalent, 112, 214; BIO 111, 112, or equivalent; BIOL 111, 112, or equivalent; and junior standing.

Physiological mechanisms mediating behavior. The neural and endocrine systems in man and other animals are emphasized.

**PSY 320 BEHAVIOR MODIFICATION (3 Hours)**

Prerequisite: PSY 111 and 112.

An in-depth analysis of principles and procedures use in modifying and controlling behavior.

**PSY 411 LEARNING (3 Hours)**

Prerequisite: PSY 111 or equivalent, 112, 214, and 315.

Classical and instrumental conditioning; aversive control; discrimination and attention; cognitive processes; selected behavioral and neurophysiological models; recent theoretical developments.

**PSY 415 EXPERIMENTAL PSYCHOLOGY (4 Hours)**

Prerequisite: PSY 111 or equivalent, 112, 211, 212 and 214.

An overview of experimental psychology emphasizing experimental design, methodology and the use of statistical software for data analysis. Lecture and laboratory.

**PSY 418 SEMINAR (3 Hours)**

Prerequisite: Senior standing.

Contemporary topics in psychology.

**PSY 424 Animal Behavior (3 Hours)**

The course is an undergraduate student elective and will expose students to the broad field of animal behavior. The course will include the historical underpinnings of the field, as well as contemporary theories for a wide variety of behaviors. Behavioral ecology and the evolution of animal behaviors as adaptations will be intertwined throughout the course, as well as potential applications of knowledge from animal behavior and cognition. Students will be able to analyze existing evidence and investigate modern practices in order to evaluate existing theories and consider potential future directions of animal behavior. Using current scientific literature, as well as case-studies, students will be able to identify their own hypotheses regarding animal behavior and create a hypothetical study to experimentally test these hypotheses. The course is open to all majors.

**PSY 428 Seminar-Psychology of Disaster (3 Hours)**

The goal of this course is to introduce students the psychological and physiological human response to disasters. Using clinical research and case histories, students will examine normal and abnormal psychological reactions, the recovery process and principles of mental health care for victims of mass disasters. Differences between natural and man-made disasters are examined and factors that mitigate post-traumatic effects are reviewed. The class will also address the psychological factors- cognitive biases, heuristics, risk perception, social influences, and past experiences-that together help explain why people tend to underprepare for potential natural and man-made disasters.

**PSY 498 READINGS RES INDEP STUDY (3 Hours)**

Prerequisite: PSY 211, 212, and 415C.

A research project and/or intensive reading in an area of interest will be undertaken with the consent and supervision of the instructor. A written report will be required.

## Reading (RE)

**RE 001 DEVELOPMENTAL READING I (3 Hours)**

An individualized course for meeting reading needs of students whose entrance scores indicate likelihood of difficulty in doing college work.

**RE 002 INTERMEDIATE READING (3 Hours)**

An individualized course designed for any student deserving to increase speed of reading and to improve study skills.

**RE 003 INTEGRATED INTERMEDIATE READING (3 Hours)****RE 103 Intermediate Reading (3 Hours)**

Prerequisite: This course is required for all incoming Freshmen whose ACT score is less than a 17 in the Reading subsection.

RE 103 is an individualized course designed for any student desiring to increase the speed of reading and improve study skills.

**RE 204 PRE-READING SKLS F/PRESCHLRS & E (3 Hours)**

Students will participate in situations involving reading readiness skills, oral language, concept development, early experiences with children's literature-creative storytelling and the study of management systems. (D)

**RE 301 CHILDREN'S LITERATURE (3 Hours)**

A survey of library media appropriate for children at the pre-school through the primary grades with emphasis on selection and use.

**RE 309 EARLY LITERACY I (3 Hours)****RE 310 TCHNG READING IN CONTENT AREAS (3 Hours)**

A thorough study of techniques for promoting reading growth through teaching content materials. (F, S, Sum)

**RE 311 Strategies and Techniques for Teaching English Language Arts and Literacy in Elementary Schools (3 Hours)**

The course will provide comprehensive information of instructional strategies needed to provide the learner with competencies in the communicative arts. Emphasis will be on the communicative areas to enhance responsible, receptive, and expressive language arts and literacy skills. Focus will also be given to application of reading strategies, as well as multi-cultural education relative to the reading literacy.

**RE 312 EARLY LITERACY II (3 Hours)****RE 455 DIAG RD INST N/SECDY SCH (3 Hours)**

This course is designed to assist students in utilizing a diagnostic/prescriptive model in determining the unique needs of students; specific teaching strategies and techniques, approaches, and materials useful in acquiring and/or maintaining essential reading skills needed for concept attainment in content areas in the secondary school classroom.

## Recreation (REC)

**REC 104 INTRO TO RECREATION (3 Hours)**

This course presents an orientation to the field of organized recreation in terms of its history, philosophy, and development, and the contribution of organized recreation to the leisure and play movement, to the school and community. (F)

**REC 205 CULTURAL & RECREATION PROGRAM (3 Hours)**

The course is designed to provide students a variety of experiences in the development of cultural and recreational opportunities and events for a multicultural society. (F)

**REC 218 HISTORY & PHILOSOPHY IN RECR TN (3 Hours)**

This course provides a thorough investigation of the philosophical basis for recreation, history, events, landmark legislation and the formation of the profession.

**REC 225 RECREATION PRACTICUM (1 Hour)**

Recreation administration experiences will be obtained for students during the fall semester at local recreation administration agencies institutions. Students will have opportunities to gain experience as an observer in program planning principles and procedures. (F)

**REC 305 FACILITIES EQUIP & AREA (3 Hours)**

This course provides various learning experiences in facility, equipment, and areas designed uniquely for recreation. Consideration will be given to new trends in building and park designs. Equipment purchase and development will also be discussed. (S)

**REC 307 RECREATION LEADERSHIP (3 Hours)**

The content of the course is designed to teach various methods and techniques utilized in developing competent recreation leaders. Students will have experiences in conducting recreational programs for all ages. (F)

**REC 317 COMMUNITY & URBAN RECREATION (3 Hours)**

This course is a study of the various aspects, problems and practices of recreational agencies in urban areas. Students will be afforded experiences in the organization of street groups, family projects, commercial groups, and neighborhood schools. (S)

**REC 325 RECREATION PRACTICUM (1 Hour)**

Experiences in recreation administration will be obtained by students at local recreation administration agencies that have viable programs. Students will gain experiences in initiating leadership and programming techniques. (S)

**REC 350 INTRO TO LEISURE EDUCATION (3 Hours)**

Introduces students to the concept of leisure, fundamental and critical trends, and future perspectives vital for growth and development of leisure attitudes.

**REC 404 RECREATION PROGRAM DESIGN (3 Hours)**

This course entails a study of various aspects, problems and practices of agencies, governmental, and private programs and their planning with particular emphasis on playground, community and teen center plans and procedures. (S)

**REC 405 OUTDOOR RECREATION PROGRAMMING (3 Hours)**

Emphasis of this course is placed on the philosophy, scope, and trends in outdoor recreation. It includes planning, administering, programming, and evaluating various outdoor recreation programs. (S)

**REC 406 LEGAL ISSUES IN RECREATION (3 Hours)**

This course provides a legal structure by which students can best learn liability, legal and risk management principles, and understand and develop professional ethics.

**REC 415 CURRENT ISSUES & TRENDS IN REC (3 Hours)**

This course focuses on critical issues and trends surrounding the professional practice of recreation, leisure, play, and recreation administration and the challenges for future growth and development. This course will also focus on leisure style development, resource allocation and decision making for a constantly changing society.

**REC 418 PRIN, PRACT & PROCEDURES RECR (3 Hours)**

This course provides an overview of service delivery, practice, guidelines, theories, facilitation techniques and evaluation of the recreation and leisure process.

**REC 421 MNGT IN RECREATION ADMINISTRA (3 Hours)**

This course is a study of principles, methods, techniques, organizational patterns, personnel, public relations and administrative problems involved in the management of recreation, leisure and park programs. This course of study includes finance and budget, the art of human relations, communication, problem solving skills and techniques.

**REC 423 RES & EVAL IN RECREATION (3 Hours)**

Emphasis is placed on the principles and techniques of research and evaluation in therapeutic recreation to the organization, administration, and objectives of viable therapeutic recreation programs. (Sum)

**REC 424 SEMINAR IN RECREATN ADMINISTRA (3 Hours)**

This course will emphasize review of current recreation administrative literature; completing abstracts, budget planning, community relations and annotated bibliographies; role playing, situation resolution and site visits. Students will be expected to take a major leadership role in the course. (F, S)

**REC 425 RECREATION INTERNSHIP (9 Hours)**

Emphasis is placed on supervised leadership assignments in public or private agencies with emphasis on a variety of recreation leadership experiences common to such organization programs. Students will have the responsibility of planning, implementing and evaluating a special program during internship. (F, S)

## Social Science (SS)

**SS 111 ETHNIC STUDIES SURVEY-BLACKS (3 Hours)**

This course examines the cultural traits of blacks, conflicts of blacks and whites, and the status of blacks in America. (F, S, Sum)

**SS 201 SOCIAL INSTITUTIONS (3 Hours)**

The course examines the basic domestic, educational and religious institutions, relying heavily on the interdisciplinary approach. (F, S, Sum)

**SS 202 ECONOMIC INSTITUTIONS (3 Hours)**

This course examines the basic economic institutions, relying heavily on the interdisciplinary approach. (F)

**SS 203 HISTORICAL&CULTURAL FOUNDATNS (3 Hours)**

Prerequisite: EDCI 100.

This course is concerned primarily with selected historical facts and philosophical ideas, which have influenced the development of modern education. (F, S, Sum)

**SS 211 ETHCS STU SUR - IND & SPAN SPK (3 Hours)**

This course examines cultural traits of Native Americans and Hispanic Americans, their conflicts with white people, and their status in the United States of America. (F, S, Sum)

**SS 212 ETH STUDS SUR-JEWISH & ORIENTA (3 Hours)**

This course examines the cultural traits of Jewish and Asian Americans, their conflicts with white people, and their status in the United States of America. (S)

**SS 301 INQRY-BASED INSTRN N GEOG & CE (3 Hours)**

This course examines laws and court decisions affecting the rights, responsibilities, conditions and expectations of public school teachers and the students and districts which they serve. (F, S)

**SS 305 AFRICAN AMERICAN FUTURES (3 Hours)**

The course is designed to involve Jackson State University in an examination and study of relevant futurist issues. The content for this course will be explored using an interdisciplinary approach. (F, S, Sum)

**SS 311 ETHNIC STUDIES CURRO DEV (3 Hours)**

Prerequisite: Completion of SS 111, 211 and 212.

This course focuses on the evaluation and development of ethnic studies curriculum materials. (S)

**SS 401 SOCIAL SCIENCE METHODS (3 Hours)**

Prerequisite: Junior standing and at least 15 hours of Social Sciences.

Exposure to the methods of developing objectives, carrying out strategies and evaluating social studies teaching, learning and interactions are focuses of this course. (F, S)

**SS 412 INTERNSHIP IN ETHNIC STUDIES (9 Hours)**

Prerequisite: Completion of SS 111, 211, and 212.

In this course, students are placed with educational institutions where they practice what they have learned and get on-the-job experience. (S)

**SS 443 SEMINAR IN SOCIAL SCIENCE (3 Hours)**

Prerequisite: Completion of all substantive courses in the social sciences.

Contemporary issues and problems are analyzed by means of student research papers and project reports. Standardized examinations and job application techniques are also explored. (F)

## Social Work (SW)

**SW 200 INTRO TO SOCIAL WORK (3 Hours)**

This is an introductory course that provides students with the historical development of social welfare and programs. It provides a broad survey of the social work profession, including its fields of practice, an overview of theory, history, values and ethics, diversity of societal population and policies that are fundamental to this profession. Students are introduced to generalist social work practice and the use of critical thinking in the helping professions. The course provides an understanding of key social welfare concepts. Students in the course participate in twenty hours of service learning.

**SW 210 PROFNL BHVRS, ETHICS, & COMMUN (3 Hours)**

This course focuses on the values of the social work profession and the process of ethical decision making in the practice of professional social work. The intent of the course is to provide a foundation knowledge of professional values and ethics in order to develop sensitivity to ethical issues and dilemmas in social work and social welfare. The course concentrates on knowledge about the codes of ethics of the National Association of Social Workers and the National Association of Black Social Workers. Legal issues related to malpractice and liability and ethical issues related to at-risk populations are covered. The course examines personal values as well as societal values and analyzes the interaction and interrelationship of these values with the social work professional values.

**SW 215 SOC WELFARE POLICIES & PROGRMS (3 Hours)**

This course focuses on helping students understand the historical foundation of social welfare, the values and beliefs underlying social welfare policy, how it impacts our lives. An overview of the history of social welfare policy in the United States is explored. This theoretical and practically based course provides a special focus social welfare policies and programs designed to promote social and economic justice, to include themes of poverty, racism, sexism, homophobia, and other forms of oppression. Students will conduct a social welfare policy analysis.

**SW 220 INTL PERS ON DVRS N SOC JUSTIC (3 Hours)**

This course will enhance students understanding of diverse perspectives regarding contemporary social issues, globalization, cultural diversity and oppressive dynamics.

**SW 225 HUMAN DIVERSITY & SOC JUSTICE (3 Hours)**

HUMAN DIVERSITY & SOCIAL JUSTICE TO THE LIST OF SOCIAL SCIENCE OPTIONS. This course provides a strength-based perspective for intervening with the most vulnerable populations within society. The course focuses on an ecological and person-in-environment assessment for viewing human needs and problems generated by the dynamic interaction between persons and their environment. Included are strategies to promote social, economic, and political justice. Special attention is given to those with diverse lifestyles and traditions.

**SW 230 Basic Trauma and Trauma-Informed Care (3 Hours)**

Basic Trauma & Trauma-Informed Care will provide a foundational understanding of the impact of psychological trauma including the neurophysiological alterations associated with trauma and a trauma-informed approach aimed at assisting individuals and systems impacted by trauma. This course will visit the trauma of systemic racism, history of trauma research, and a variety of conceptualizations of trauma with special attention and focus on Trauma-Informed Care (TIC) and self-care practices. The effects of stress and crises will serve as a foundation for understanding the physical and mental health outcomes associated with trauma. This course will not certify any student to practice as a mental health practitioner. However, students will gain the most basic knowledge about trauma, stress, and self-care practices. This course will introduce evidence-based self-care skills and practices as related to mental well-being.

**SW 250 THEORETICAL PERSPECTIVES N GEN (3 Hours)**

Prerequisite: SW 200, 210.

This course outlines the historical development of social work theory. It equips students with a variety of social work theories, while fostering a critical analysis in comparing and contrasting those theories and their applications. It provides opportunities for students to utilize theory to analyze different case scenarios at the micro, mezzo, and macro levels of social work practice. It orients students to the conceptual, ethical, and practical basis for analyzing social problems and issues and translating these theoretical constructs into problem-solving methods in social work practice.

**SW 260 BEHAVIOR MODIFICATION: A & I (3 Hours)****SW 301 HUMAN BEHAVIOR & SOCIAL ENV I (3 Hours)**

Prerequisite: BIO 101, HE 101, SOC 214, PSY 201, SW 200, 250;  
Corequisite: SW 210 and PSY 216.

The first course in human behavior and the social environment orients students to theoretical perspectives regarding the person-in-environment focus upon which social work bases its practice. Systems theory and an ecological perspective with a life-span approach and situational context are utilized to explore the periods from conception through later adulthood to understand individuals as they develop and have membership in diverse families, groups, organizations, and communities. Knowledge of the theories about and the relationships among human biological, social, psychological, cultural, spiritual, and economic systems during these periods of life span development is included and assessed for use in problem-solving at micro, mezzo, and macro levels of social work practice.

**SW 302 HUMAN BEHAVIOR & SOC ENVRN II (3 Hours)**

Prerequisites: SW 250, 301 and PSY 216. This second course in human behavior and the social environment expands students' knowledge of theoretical perspectives regarding the person-in-environment focus upon which social work bases its practice. Systems theory and an ecosystems perspective utilizing a situational context to understand individuals as members of social systems such as families, groups, organizations, and communities is offered as the organizing framework. A strengths perspective, empowerment, and resiliency are underlying themes. Knowledge of the theories about and the relationships among human biological, social, psychological, cultural, spiritual, and economic systems are included for use in understanding human behavior and in problem-solving while working with individuals, families, groups, organizations, and communities in social work practice.

**SW 330 CHILD WELFARE SERVICES (3 Hours)**

The focus of this course is on social welfare programs and services, legislation and policies in child welfare as they relate to children with special needs and their families.

**SW 360 SOCIAL ISSUES IN FILM (3 Hours)**

This elective course explores pivotal life transitions as they are depicted in film. Students will examine diversity, social justice, biological, psychological, and sociological aspects of major life events and issues such as LGBTQ, discrimination/oppression, giving birth, becoming a parent, marrying, aging, dying, and explore the portrayal of these events in film to understand their potential impact and influence on human behavior.

**SW 385 SOCIAL WORK PRACTICE I (3 Hours)**

Prerequisite: SW 200, 210, 301; Co-requisite: SW 302.

(Restricted to majors only). This course is the first of the required practice courses designed to provide the necessary knowledge, skills, and values and ethics to prepare students to function as generalist social work practitioners. It focuses on the relationship-building and problem-solving skills necessary for social work practice with individuals, families, and groups.

**SW 400 MILITARY SOCIAL WORK (3 Hours)**

This elective course focuses on knowledge and skills regarding life cycle issues, developmental theory, personality theory, and general systems theory, which will be applied to practice with military service populations. Additionally, this course will address specific issues such as the military as a sub-culture or our society, gender issues, and the role of rank structure and its premises to transitioning to civilian sector, psychological development of basic training, and ethics of counseling in the military.

**SW 401 SOCIAL WORK AND CRIMNL JUSTICE (3 Hours)**

This elective course provides a study of the various treatment and rehabilitation methods used in correctional settings. Topics include the roles of correctional personnel, the assessment and treatment of juveniles and adults, casework in correctional settings, crisis intervention, the assessment and treatment of special populations in correctional settings, and the evaluation of treatment and rehabilitation programs.

**SW 402 LEADERSHIP AND MANAGEMENT SKIL (3 Hours)**

A broad survey of the administrative and management theories associated with the knowledge base of the social work profession. This course focuses on organizational and agency structure in relation to the delivery of services. It develops leadership skills and a systematic approach to management of work loads. Theories of management and motivation are considered in relationship to operation of organizations and agencies.

**SW 404 SCHOOL SOCIAL WORK (3 Hours)**

This elective course prepares students to apply social work knowledge and skills in school settings through prevention, assessment, intervention and evaluation from an ecological multilevel approach focused on students, families and the school community.

**SW 405 COMMUNITY ORGANIZTN DEVL (3 Hours)**

As one of the primary social work methods of practice, community organization is experiencing a revival in urban and rural areas in this country. This course assists social workers and other helping professionals respond to the resurgence of interest in this area. The focus is on the community as the client and it is both didactic and experiential in structure. The history, theories, and models of community organization practice are reviewed. The functions and roles of human service professionals in macro practice are examined. The primary emphasis is on the areas of practice and strategic practice approaches.

**SW 406 DEATH AND DYING (3 Hours)**

This elective course is designed to provide the student with an opportunity to understand the process of dying and bereavement. Theory and research about death and bereavement from a variety of interdisciplinary perspectives will be explored. The course offers the student an opportunity to explore personal and professional issues and experiences with death and bereavement. Social, cultural, ethical, and spiritual concepts that have an impact on death and bereavement are considered throughout the course. Attention will be given to lifespan and family perspectives. The values and ethics of multiple disciplines will be incorporated into the course.

**SW 410 SOCIAL LEGISLATION (3 Hours)**

Description and analysis of laws and court decisions relating to social, economic and legal problems in American society. The legislative process for addressing these problems is also studied.

**SW 421 TEENAGE SEX & TNGE PARNTG N UR (3 Hours)**

This course equips students with a variety of perspectives, investigating the social, educational, and economic factors which influence adolescents toward sexual activity, pregnancy, marriage, pregnancy termination, and other relevant issues. It orients students to the conceptual framework of functional research relative to understanding the adolescent mind, including the unique problems and needs of the adolescent and those social services which attempt to meet the needs of this population.

**SW 430 FAMILY TREATMENT (3 Hours)**

This course provides information about the theory and process of family therapy. The course offers a presentation of the major theoretical underpinning and clinical practices in the family treatment field today.

**SW 435 FAM VIOL:STRAT FOR INTRV (3 Hours)**

In recent years the family has become one of the most violent social institutions in this country. This course increases student knowledge and awareness of domestic violence in all its forms: child and adolescent abuse and neglect, spouse abuse (women and men), and elderly abuse. The social and historical background of family violence is examined. Emphasis is also placed on the extent and seriousness of the problem. Current legislation, programs and services, and intervention strategies are reviewed.

**SW 436 CHILD ABUSE&NEG:PROT SER (3 Hours)**

This course focuses specifically on the complex problems of child abuse and neglect. It covers the incidence, causes, symptomatology, and types of child abuse and neglect with critical study of child sexual abuse. State-of-the-art research and approaches to treatment utilizing a multidisciplinary perspective (legal, medical, educational, and social services) are included.

**SW 445 INTRO TO SOCIAL GERONTOLOGY (3 Hours)**

This course gives students a general overview of social gerontology as a branch of knowledge in the field of gerontology. Social gerontology concerns itself with psychosocial and economic aspects of the aged individual and the social problems encountered from living in both formal and informal societal groupings. The interaction of these aspects and groupings and the services established and considered for the aged through public and social policy are discussed.

**SW 450 SOC WORK IN HLT RELT FLD (3 Hours)**

This course is designed to help students develop knowledge, skills and attitudes necessary to work in health-related fields. Two broad areas of concern in this course are:

**SW 455 RESEARCH METHD & SOC WOR (3 Hours)**

Prerequisite: SW 250, 302, 385;

Corequisite: SW 486, Statistics Option.

(Restricted to majors only). This course focuses on the practical methods of research which entry-level social workers can incorporate into their practice environment. It reviews the fundamental theoretical frameworks, research concepts, and the research process from the point of view of problem-solving. Students obtain the knowledge needed to monitor their practice, evaluate agency programs, and understand the ethical use of social work research.

**SW 460 PROF DEVL P IN HUMAN SERV (3 Hours)**

Prerequisite: Permission of the Program Director.

This institute examines a variety of issues concerning the role of the human service professional in bringing about changes. Each institute has a different focus based on expressed student and community needs.

**SW 465 PROFESSIONAL DVLPMNT & LICENS (2 Hours)**

Permission of instructor. (Restricted to majors only). This course enhances and extends the student's knowledge of the social work process. It includes a review of knowledge acquired in the areas of practice, assessment, human behavior, policy, research, administration, cultural diversity, and social work values and ethics.

**SW 485 SKILLS IN INTERVIEWING (3 Hours)**

Prerequisite: SW 302 and 385.

(Restricted to majors only). This course introduces essential communication skills and techniques, along with the pitfalls most commonly encountered in building helping relationships as a social work generalist practitioner. Emphasis is directed to the skills needed in interviewing individuals, families, small groups and organizational and community systems. This course builds upon the assessment knowledge acquired through the biopsychosocial study of human behavior and the social environment.

**SW 486 SOCIAL WORK PRACTICE II (3 Hours)**

Prerequisite: SW 200, 301, 302, and 385; Co-requisite: SW 485.

(Restricted to majors only; malpractice insurance required). This course is a continuation of Social Work Practice I in the development of the generalist social worker. It focuses on social work practice skills with organizations and communities, and includes a thirty-hour service learning component.

**SW 489 SOCIAL WORK FIELD PRACTICUM (9 Hours)**

Prerequisite: All required social work courses and all liberal arts prerequisites and co-requisites for these courses.

Corequisite: SW 499.

(Restricted to majors only; malpractice insurance required). Field instruction enables students to integrate and apply to social work practice the knowledge, skills, and values and ethics obtained in the social work foundation courses. Agency-based learning experiences are provided which allow students to develop generalist practitioner skills for social work practice with diverse individuals, families, small groups, organizations, and communities, including populations at risk of injustice, oppression and discrimination. Each student completes a minimum of 500 hours in a community agency.

**SW 499 INTEGRATIVE SEMINAR (3 Hours)**

Prerequisite: All social work required courses and all liberal arts prerequisites and corequisites for these courses.

Corequisite: SW 489.

(Restricted to majors only). This integrative seminar is an extension of the field instructional process and is dependent upon the field instructional learning experiences for considerable teaching content. This seminar serves as the bridge between the educational process and entry-level professional social work practice. Additionally, this course provides information for students who wish to pursue graduate professional education. It provides a forum for the discussion of practice-related issues and the integration of social work knowledge, skills, and values and ethics. The seminar also emphasizes the importance of the evaluation of one's own practice and the use of research skills in program evaluation.

## Sociology (SOC)

### SOC 214 INTRODUCTN TO SOCIOLOGY (3 Hours)

An introduction to the basic concepts and generalizations in the field of sociology and a descriptive study of culture, societal processes, social institutions, and the significance of group behavior.

### SOC 216 MODERN SOCIAL PROBLEMS (3 Hours)

A brief survey of some of the social problems prevalent in contemporary America. Attention will be given to their nature, type, causes, and collective action toward them.

### SOC 231 MARRIAGE AND THE FAMILY (3 Hours)

Prerequisite: Introduction to Sociology SOC 214.

The marriage-family system, a critical approach to the study of courtship, marriage and the family modern functions, characteristics, and maladjustments.

### SOC 301 COMMUNITY ORGANIZATION (3 Hours)

A study of the historical evaluation of community organizations, methods of securing community support, the ecological characteristics, the social processes and interactional patterns. Attention is given to agency organization and functions. Student participation in organizational practices and professional supervision.

### SOC 302 BAS ISSS IN MENTAL HLTH (3 Hours)

This course will examine basic issues in the mental health service delivery system. Emphasis will be placed upon clients rights, mental health laws, goals of mental health systems, and areas of specialization. Students will study selected interdisciplinary literature as related to: (a) the psychosocial and historical context of mental illness and community mental health services, (b) problems and needs of target populations, and (c) implications for health practice.

### SOC 310 INTRO TO ALCOHOL&DRUG ABUSE (3 Hours)

Encompasses factual and scientific information on alcohol and drug use, misuse and non-use. The physiological, psychological and social manifestations of the use of mind altering substances will be explored.

### SOC 318 WOMEN IN CONT AMER SOCTY (3 Hours)

To examine the interrelationship of sex-role stereotypes and the translation of sex-roles into social institutions. It will provide a description and an analysis of the experiences of women in social and individual roles; the social structure and social institution which both serve and are served by the differential treatment of the female/male roles.

### SOC 320 COUNSELING CHEM DEPENDNT (3 Hours)

Explores the philosophy and principles of the helping relationship including the theoretical orientation to counseling, techniques of counseling, counseling approaches and overview of counseling theories and techniques.

### SOC 321 PERSONALITY & CULTURE (3 Hours)

This course is designed to study the role of culture in the development of personality and the range of personal adjustments in the light of cultural variability.

### SOC 322 ALCHL/DRUG STUDIES SEMIN (3 Hours)

This course focuses attention on basic alcohol content and exposure to the state-of-the-art alcohol/drug research.

### SOC 323 INTRO TO ANTHROPOLOGY (3 Hours)

An introduction to basic anthropological concepts and a descriptive and analytical study of selected cultural traits, patterns and themes found among contemporary preliterate culture groups, with emphasis focused on cultural similarities and differences.

### SOC 324 SOCIAL PSYCHOLOGY OF WMN (3 Hours)

Will be designed to offer insight into the socialization process of women. It is to pursue the process of adaptation, which starts at birth and continues for a considerable period in the life of the individuals. It will also focus on stress techniques used by women in every day life.

### SOC 325 CULTURAL ANTHROPOLOGY (3 Hours)

An introduction to basic anthropological concepts and a descriptive and analytical study of selected cultural traits, patterns and theme found among contemporary preliterate folk, and literate culture groups, with emphasis focused on cultural similarities and differences.

### SOC 326 SOCIAL PSYCHOLOGY (3 Hours)

A study of processes of interrelationships and of stimuli as they affect individual and group reactions and behavior such as fashions and social movements.

### SOC 327 SOCIAL STRATIFICATION (3 Hours)

An analysis of American social structure. Topics to be considered include criteria for differentiation, types of stratification, the composition of strata and status systems, mobility and consequences of stratification.

### SOC 328 URBAN SOCIOLOGY (3 Hours)

Special attention is given to types of cities. Consideration is given also to the rise of urbanism, suburbanism, the culture of cities, segregated ethnic areas, community and neighborhood organization and disorganization.

### SOC 329 SOCIAL CHANGE (3 Hours)

Concern with the basic principles and theories of social change, trends in the major societal institutions, e.g., family, government, religion, economics, and education, special emphasis on the roles that technology and invention play as factors in social change.

### SOC 330 URBAN RURAL TRANS CONCPT (3 Hours)

Sociological implications of urban-rural transportation network systems interfacing with the ecological, social political and other established social institutions in America.

### SOC 334 SOCIAL DISORGANIZATION (3 Hours)

Prerequisite: Junior standing.

An examination of various symptoms of social disorganization, such as individual maladjustment, and a general survey of the processes through which societies become disorganized.

### SOC 420 BLACK FEMALE & THE FAMILY (3 Hours)

To enhance the existing interrelated concepts of the family and women studies. It will offer a descriptive account of how women have, and still are, a significant force in implementing the major functions of the family which include: replacement of the species, e.g., nurturing its offsprings, initial status ascriptions tension management, household maintenance, cultural transmission, and informal education. Special attention will be given to black women heads of household with a relationship or the lack of a relationship to a culture of poverty thesis.

### SOC 427 URBAN ANTHROPOLOGY (3 Hours)

Prerequisite: Senior standing.

Special focus on the problems of rural-urban migration of ethnic minority groups and subsequent adaptation of them within the United States explored in terms of methods and perspective of anthropology.

### SOC 428 SEM IN URBAN SOCIAL PROB (3 Hours)

A critical examination of contemporary social issues which have produced unrest in the cities. Emphasis will be upon urban problems in Mississippi. The topics to be studied will include poverty, housing, racism, riots, power structure, educational problems, and the community organizing.



**SOC 443 PROPULATION&ITS PROBLEMS (3 Hours)**

Prerequisite: Senior standing.

A systematic investigation of the qualitative and mobile aspects of the human composition of the various nations. Special attention is given to the United States and those areas experiencing population pressure.

**SOC 445 METHODS OF SOC RESEARCH (3 Hours)**

Prerequisite: Junior standing.

Consideration is given to the essential tools of sociological research; field work is given to the student to orient him/her in collecting, presenting, analyzing, and interpreting sociological data.

**SOC 446 DEVL P OF SOCIAL THEORY (3 Hours)**

Prerequisite: Senior standing.

A comparative and historical survey of a basis concepts and theories in sociology, a critical analysis of trends in theory construction of early European and American pioneers in sociological theories from Comte through Weber.

**SOC 447 SOCIOLOGY OF THE FAMILY (3 Hours)**

A sociological analysis of the development of the modern family, its structure, its interrelationships in society, and its sociological functions.

**SOC 451 SOCIAL STATISTICS (3 Hours)**

Prerequisite: Senior standing.

Basic methods of presenting, analyzing and interpreting social data through statistical methods with concentration on statistical series, frequency distributions, normal curve, measures of central tendency, dispersion, variability, correlation, and such analysis of variance as chi-square.

**SOC 455 RACE & ETHNIC RELATIONS (3 Hours)**

A description and analysis of the race and ethnic characteristics of groups within the United States, with special emphasis on patterns of racial and ethnic relationship and factors influencing them.

**SOC 456 SURVEY & DATA ANALYSIS (3 Hours)**

Prerequisite: SOC 445W.

This course focuses on the practical experience of conducting various survey techniques in data collecting, coding, putting data in the computer, and data analysis. Special attention is given to provide hands-on experience in the use of computers as the students analyze data by using a number of statistical techniques such as chi-square, T-test, correction and others.

**SOC 458 GROUP DYNAMICS (3 Hours)**

Emergence of social organization from unorganized collect behavior. Conditions giving rise to crowds, mobs, riots, panic, social unrest. Attentions to dynamics of small group behavior, patterns of leadership, and formation of public opinion.

**SOC 470 SEMINAR IN SOCIOLOGY (3 Hours)**

Prerequisite: Senior standing and completion all required sociology courses through the First Semester, Senior year with a minimum of 2.00 average and a grade of C or better in all sociology courses.

Critical analysis of research papers presented by the students. Methods of finding and organizing source and secondary materials..

**SOC 490 SPECIAL TOPICS (3 Hours)**

## Spanish (SP)

**SP 101 ELEMENTARY SPANISH (3 Hours)**

An introduction of Spanish. Essentials of the language. Training in the four skills of listening, speaking, reading, and writing in the Spanish language. May not be taken by native speakers.

**SP 102 ELEMENTARY SPANISH (3 Hours)**

An introduction of Spanish. Essentials of the language. Training in the four skills of listening, speaking, reading, and writing in the Spanish language. May not be taken by native speakers.

**SP 201 INTERMEDIATE SPANISH (3 Hours)**

Prerequisite: SP 101, 102 or equivalent.

Review of essentials. Reading of appropriate texts and analysis and discussion emphasizing content and grammar. Conducted mainly in Spanish. May not be taken by native speakers. May be used to satisfy 3rd or 4th semester department requirement.

**SP 202 INTERMEDIATE SPANISH (3 Hours)**

Prerequisite: SP 101, 102, 201, or equivalent.

Continuation of SP 201. May not be taken by native speakers. May be used to satisfy the 4th semester departmental requirement.

**SP 254 SPANISH FOR BUSINESSMEN (3 Hours)****SP 313 LANDMARKS OF PENIN-SP LT (3 Hours)**

Prerequisite: SP 230, 231 or the equivalent.

A course in which peninsular Spanish masterpieces will be studied in order to familiarize the students with these works, plots, characters, and literary and cultural importance.

**SP 317 LANDMARK OF SPAN-AMER LT (3 Hours)**

Prerequisite: SP 230, 231 or the equivalent.

A course in which Spanish American masterpieces will be studied in order to familiarize the students with these works, plots, characters, and literary and cultural importance.

**SP 321 CONVERSATION & COMPOSITN (3 Hours)**

Prerequisite: any 6 hours of Intermediate options or equivalents.

Practice in idiomatic Spanish Composition, conversations and discussions on current events. May not be taken by native speakers.

**SP 322 CONVERSATION & COMPOSITN (3 Hours)**

Prerequisite: SP 321.

A continuation of SP 321. May not be taken by native speakers.

**SP 405 Literary Translation and Localization (3 Hours)**

This course will focus on the translation and localization of a variety of literary and creative texts from English to Spanish and Spanish to English. We will approach the process of translating as a cross-cultural phenomenon that transcends spatiotemporal borders. Students will become familiar with different genres, discourses and registers ranging from literature, cinema, television, politics, videogames and art to develop competency in textual and contextual issues that may arise during the translation process. Special attention will be paid to structural differences between English and Spanish innately hinged to differing localities (localization), the problems of fidelity, freedom, preservation of audible effects and the difficulties or impossibility of translating humor.

**SP 406 Technical Translation and Localization (3 Hours)**

This course will focus on the translation and localization of a variety of technical and professional texts from English to Spanish and Spanish to English. We will approach the process of translating as a cross-cultural phenomenon that transcends spatiotemporal borders. Students will become familiar with different genres, discourses and registers ranging from technical manuals, instructional texts, business texts, law and courtroom translation to develop competency in textual and contextual issues that may arise during the translation process. Special attention will be paid to structural differences between English and Spanish innately hinged to differing localities (localization), the problems of fidelity, freedom, preservation of audible effects and the difficulties of varying lexicon. The course will also familiarize students with translation memory software programs and the pitfalls associated with machine translation.

**SP 407 SPANISH FOR THE PROFESSIONS (3 Hours)**

Spanish for the Professions provides cultural and linguistic insight to the Spanish-speaking professional world. Students will analyze cultural, literary, audio and video mediums from a variety of countries to compare and contrast professional practices while acquiring new lexical and grammatical structures appropriate for a wide range of socio-cultural contexts. The focus of the course will vary according to student interest by semester; i.e. business Spanish, Spanish for Law Enforcement; Spanish for the courtroom, medical Spanish and etcetera.

**SP 421 ADV TOPICS FOR CONVERSTN (3 Hours)**

Prerequisite: SP 321, 322 or equivalent.

Intensive practice in oral Spanish using topics of culture, civilization, politics, and economics of the Spanish-speaking world. May not be taken by native speakers.

**SP 422 ADV TOPICS FOR CONVERSTN (3 Hours)**

Prerequisite: SP 321, 322 or equivalent.

Intensive practice in oral Spanish using topics of culture, civilization, politics, and economics of the Spanish-speaking world. May not be taken by native speakers.

**SP 425 ADVANCED SPANISH GRAMMAR (3 Hours)**

Prerequisite: Any 6 hours of Intermediate options or equivalent.

Special aspects and problems of Spanish grammar. Development of written skills through grammatical and stylistic drills; guided and original compositions. Individual corrections.

**SP 430 History of Spanish Peninsular Civilization (3 Hours)**

Prerequisite: SP 230 and 231.

An outline study of the physical, racial, historical, and artistic influences which have molded the culture of Spain. Lectures, readings, oral and written reports.

**SP 431 History of Latin American Civilization (3 Hours)**

Prerequisite: SP 230 and 231.

An outline study of the physical, racial, historical, and artistic influences which have molded the culture of Spain. Lectures, readings, oral and written reports.

**SP 441 SIGLO DE ORO (3 Hours)**

Prerequisite: SP 311 and 312.

A detailed study of the Golden Age. Lectures, readings, oral and written reports.

**SP 443 CERVANTES (3 Hours)**

Prerequisite: SP 311 and 312.

A study of the life and works of Miguel de Cervantes, with special attention to *¿Don Quijote de la Mancha¿* as a masterpiece of world literature. Lectures, readings, oral and written reports.

**SP 451 SPANISH-AMERICAN NOVEL (3 Hours)**

Prerequisite: SP 231.

A study of the contemporary Spanish-American Novel. Lectures, readings, oral and written reports.

**SP 464 HONORS COURSE IN SPANISH (3 Hours)**

Prerequisite: Departmental approval and a 3.00 average in Spanish.

Topics vary yearly, depending on needs and desires of students.

**SP 480 INDEPENDENT STUDY (1-3 Hours)**

Prerequisite: Departmental approval.

Special reading assignments, investigative paper or research project in a specific area of Spanish-American literature, philosophy or culture directed by a specialist in that area.

**SP 486 TRANSLATION CAPSTONE (3 Hours)**

Capstone project in translation completed under the supervision of a mentor or instructor in a specialized area of translation according to the student's area of interest. Possible specializations include literary, technical, commercial, legal, medical, media, or journalism translation. The student may combine the project with an internship or apprenticeship in an appropriate organization, such as a health center, courthouse, international corporation, government or non-governmental agency or museum. Students must complete a contract with the course instructor and mentor prior to initiating the project and meet with the advisor weekly. A log of all meetings will be kept.

**SP 499 SENIOR SEMINAR (3 Hours)**

Prerequisite: Departmental approval and senior status.

The primary purpose of this course is to interrelate all areas covered in Spanish during the first three years of study of the language, literature and culture.

## Special Education (SPED)

**SPED 304 ORGAN PROC FOR SPEC EDUC (3 Hours)**

A study of organizational structures, programmatic procedures, policies, resources, and guidelines essential to the delivery of educational services for exceptional children.

**SPED 307 BEHAVIOR MANAGEMNT FOR EX CHIL (3 Hours)**

Emphasis will be placed on current techniques, educational strategies and tools that will aid the teacher in understanding and handling behavior problems in the classroom.

**SPED 311 EXCEP CHILD & YOUTH IN THE SCHO (3 Hours)**

A study of definitions, classifications, characteristics, educational programs and problems of exceptional children.

**SPED 339 VOC CAREER PLANN FOR EXCEP ADO (3 Hours)**

This course is an investigation of strategies for developing vocational/ career education and employment opportunities for students with disabilities.

**SPED 400 MEDICAL ASPECTS OF DISABILITIE (3 Hours)**

This course is a study of definitions, classifications, characteristics, evaluations, diagnosis, and treatments of medical conditions of children or youth with exceptionalities.

**SPED 402 CLINICAL INTRNSHP IN DISAB STU (6-12 Hours)**

This course is a continuation of the practical learning experiences engaged in during the EDCL 302 course, but in a more intensified and concrete manner. These experiences occur in an off-campus school and community situations for twelve weeks where opportunity is given to the student teacher to test theories of teaching and learning, to initiate and test idea with children. With guidance and supervision, the student teacher is also given the opportunity to develop the ability, initiative and responsibility for planning, guiding and evaluating the total program of the children with whom he/she is working.

**SPED 420 INTRO TO ASSISTIVE TECHNOLOGY (3 Hours)**

This course provides hands-on demonstration of technology and software that facilitates new ways of teaching and learning for individuals with disabilities.

**SPED 422 TCHNG CHILD W MILD/MOD DISABIL (3 Hours)**

This course is an overview of the three traditional handicapped groups: learning disabled, mildly (educable) mentally retarded, and mildly behaviorally disordered.

**SPED 428 EDUCATIONAL ASSESSMENT (3 Hours)**

Investigation of instruments and procedures in assessing exceptional children; their interpretation, usefulness, and limitation in diagnosing problems and planning educational programs.

**SPED 430 TCHG CHILD W INTELLECTL DISABI (3 Hours)**

Deals with the medical and behavioral classifications, characteristics, interaction of biological, emotional and social factors, educational philosophy, objectives and programs for the mentally retarded.

**SPED 432 TEACHING CHILD W LEARNING DIS (3 Hours)**

Survey of the historical development of learning disabilities, problems of definition and classification, screening and diagnosis, and instructional systems.

**SPED 450 TCHG CHLDN W EMO & BEH DISORDE (3 Hours)**

Characteristics, causes and problems of emotional disturbance in children and youth; diagnosis, and placement and in-depth study of educational programs.

**SPED 466 INTRO TO SIGN LANGUAGE (3 Hours)**

Emphasizes fundamental skills of sign language used by deaf individuals in communicative process.

**SPED 467 ADVANCED SIGN LANGUAGE (3 Hours)**

Prerequisite: SPED 466A.

Emphasizes the interpretation of English language into sign language and presents colloquialisms that are prevalent in informal conversational situations among deaf people.

**SPED 499 SEM IN THE MLDY/MDRY HANDICAPP (3 Hours)**

Current problems, trends, and issues in the field of the mildly/moderately handicapped.

## Speech (SPCH)

**SPCH 201 SPEECH ARTS (3 Hours)**

A discussion, demonstration, and performance based course designed for the non-speech major. It aims to develop the student's ability to speak fluently with confidence and poise with another individual, in the group setting, and before an audience. A University core course.

**SPCH 214 INTERPERSONAL COMMUNICATIONS (3 Hours)**

A course designed to analyze communication from one to several persons. It offers opportunities to engage in face-to-face interactions through interviews, conversations, etc.

**SPCH 215 TRAINING THE SPEAKING VOICE (3 Hours)**

A course designed to improve vocal conditions for speech purposes in general, and for the classroom teaching situation in particular. It deals primarily with the basic elements of voice and diction, articulation, pronunciation and development of vocal skills.

**SPCH 216 PUBLIC SPEAKING (3 Hours)**

An intensified study of and training in speech composition and techniques of delivery. Basic and special types of speeches are considered.

**SPCH 217 ORAL INTERPRETATION (3 Hours)**

A course designed to help students analyze, experience, and orally communicate various types of literature.

**SPCH 218 LISTENING (3 Hours)**

The course aims to explain causes and nature of poor listening; to foster self insight into personal listening habits and to initiate a method of training to improve listening behavior.

**SPCH 300 INTRO TO ORGANZTNL COMMU (3 Hours)**

A course designed to study the key variables influencing the communication behavior of people in organizations and those variables most affected by that behavior. The organization as a living open-system connected by the flow of information between and among people who occupy various roles and positions will be examined.

**SPCH 334 ARGUMENTATION & DEBATE (3 Hours)**

An application of logical principles to discourse in order to develop cogency and standards for criticism. Attention is given to analysis, evidence, straight thinking, methods of attack and defense, organization of ideas, preparation of briefs, and the techniques of delivery in debating.

**SPCH 335 PERSUASION (3 Hours)**

A course designed to give both theoretical knowledge and practical skill in recognizing and applying the various techniques of influence.

**SPCH 337 ANALYS OF COMMUNICATION (3 Hours)**

A detailed analysis of the process of communication. Methods and models of communication will be studied in-depth to understand theories that guide criticism, interpretation and validation of the process and effects of communication, oral and written, in all sectors of life.

**SPCH 338 NONVERBAL COMMUNICATION (3 Hours)**

The course will explore the functions of communication in such areas as posture, gesture, facial expressions, voice, touching, clothing, proxemics and environment as they impact on the process of communication.

**SPCH 339 INTERCULTURAL COMMUNCATN (3 Hours)**

A course designed to analyze the nature of intercultural communication and its importance to the survival of humanity and society.

**SPCH 430 SMALL GROUP DISCUSSION (3 Hours)**

A course designed to teach the student skills for effective communication in group settings such as panel, symposium, and forum. Deals specifically with group cohesion in topic understanding and problem solution.

**SPCH 496 HIST & DEV. OF BLK PROTEST RHE (3 Hours)**

Students will identify and analyze

**SPCH 497 COMMUNICATION PROJECT (6 Hours)**

The student will design a research project as an outgrowth of knowledge learned or skills acquired. The nature of the project will vary depending upon student interest but may include attitudinal studies, program effectiveness studies, and student-teacher departmental relationships.

**SPCH 498 COMMUNICATION INTERNSHIP (6 Hours)**

The student will spend a semester in an actual job setting utilizing knowledge learned or skills acquired. The nature of the work may vary depending upon the particular placement, but may include speech writing, public relations, and research.

**SPCH 499 SEMINAR IN COMMUNICATION (3 Hours)**

Prerequisite: Senior standing and consent of instructor.

This course will provide the student in speech with intensive reading in and critical discussion of literature on advanced topics, with particular attention to interaction processes characterizing speech communication. The student will design, perform and report original research on speech communication variables.

## Statistics (STAT)

**STAT 115 Introductory Statistics (3 Hours)**

Prerequisite: Test standing-ACT or SAT mathematics scores or departmental approval.

This course is designed for business, science, liberal arts, public health, behavioral health, economics, and education majors. Topics studied include descriptive measures for empirical data, theory of probability, probability distributions, sampling distributions of statistics from large and small samples, estimation theory, hypothesis testing, correlation, and regression.

**STAT 272 DATA ANALYSIS (3 Hours)**

Prerequisite: Math 271 with a grade of "C" or better or department approval.

STAT 272 (3) Data Analysis. This course covers simple linear regression, multiple linear regression, and analysis of variance(ANOVA). Rationale: To enhance content delivery and student mastery of the introductory statistics content and align the course requirements for the new BS degree in statistics and to also enable a seamless implementation of the 2+2 agreement with community colleges and students transfer to CSET and JSU in general.

**STAT 300 REGRESSION ANALYSIS (3 Hours)**

Prerequisite: : STAT 272, with a grade of "C" or better.

STAT 300 (3) Regression Analysis. This course covers multiple regression including variable selection procedures, detection and effects of multicollinearity, identification and effects of influential observations, residual analysis, use of transformations, non-linear regression, the use of indicator variables, logistic regression, and the use of R or SAS.

**STAT 323 NONPARAMETRIC STATISTICS (3 Hours)**

This course covers distribution-free analysis of location and scale measures, nonparametric comparison procedures, association and contingency tables, goodness-of-fit, and tests of randomness, one sample and two sample problems. It also uses statistical packages to perform various tests and conduct nonparametric analysis and enhance students' abilities to process distribution-free data.

**STAT 350 COMPTNL STATS AND DATA MNGT (3 Hours)**

This course covers R, SAS, SPSS, S-Plus, computational statistics packages and other big data statistical computational packages with emphasis on reading, manipulating and summarizing data and implementations of simulation and bootstrapping.

**STAT 357 ACTUARIAL SCI EXAM:PROB/EXAM I (3 Hours)**

This course will cover basic elements of probability, addition and multiplication rules, conditional probability, independent events, Bayes' Rules, univariate probability distributions, multivariate probability distributions. It is designed for students who intend to take actuarial sciences Exam 1/Probability.

**STAT 408 TIME SERIES ANALYSIS (3 Hours)**

This course covers the methods for analyzing data collected over time, review of multiple regression analysis, elementary forecasting methods, moving averages and exponential smoothing. Autoregressive-moving average (Box-Jenkins) models: identification, estimation, diagnostic checking, and forecasting, transfer function models and intervention analysis, and introduction to multivariate time series methods will also be covered.

**STAT 414 MULTIVARIATE DATA ANALYSIS (3 Hours)**

This course is primarily designed to expose students to conducting multivariate data analysis using real life data. This course will also serve to enhance the statistical analysis backgrounds of the students and expose the students to the use of statistical packages such as R, SAS, or SPSS to learn various methods of analyzing multivariate data. This course covers topics including, multivariate normal; multiple and partial correlation, principal components analysis, factor analysis, discriminant analysis, logistic regression, cluster analysis, etc.

**STAT 418 SEMINAR IN STATISTICS (3 Hours)**

The provisions to the student of an opportunity to discuss pertinent trends and ideas in statistics and to evaluate the experience he/she has had through study and practice during his/her previous years of training in statistics. It also provide students with the opportunity to discuss new trends and ideas in statistics by first exposing them to scholarly trends in the application of statistics to other academic and emerging fields of computational data-enabled science and engineering. This includes supervised activities on research projects identified on an individual or small group basis.

**STAT 455 EXPERIMENTAL DESIGN (3 Hours)**

This course covers the principles of statistical experimental design with applications, randomized complete and incomplete block designs, Latin square designs, and analysis of covariance, split-plot-design, factorial and fractional designs.

## Therapeutic Recreation (TREC)

**TREC 104 INTRO TO THERAPEUTIC REC (3 Hours)**

This course provides orientation to the field of therapeutic recreation in terms of its history, philosophy, development, practice procedures and the contribution of therapeutic recreation to the school, community, and client. (F)

**TREC 218 HISTORY&PHILOSOPHY OF THER REC (3 Hours)**

This course provides a thorough investigation of the philosophical basis for therapeutic recreation, history, events, landmark legislation and the formation of the profession.

**TREC 225 THERAPEUTIC RECREATION PRACTIC (1 Hour)**

Learning experiences will be provided for students during the fall and summer at local therapeutic recreation agencies. Students will have opportunities to gain experience as an observer in programming procedures.

**TREC 313 IMPLCTNS OF DISABLG COND IN TR (3 Hours)**

This course is designed to provide students with knowledge, and skills in planning and developing opportunities and for persons with various disabilities and the implications related to service delivery.

**TREC 325 THERAPEUTIC REC PRACTICM (1 Hour)**

Experiences will be obtained by students at local agencies institutions that have viable therapeutic recreation programs. Students will gain experiences in initiating leadership and programming techniques and procedures. (S)

**TREC 329 PROG DESIGN & EVALUATION IN TR (3 Hours)**

This course presents a study of the various therapeutic recreation programs and problems encountered in recreation program planning for the special population. (S)

**TREC 415 CURRENT ISSUES & TRENDS IN TR (3 Hours)**

This course focuses on critical issues and trends surrounding the professional practice of therapeutic recreation and the challenges for future growth.

**TREC 418 PRIN, PRAC & PROC IN THEPT REC (3 Hours)**

This course provides an overview of service delivery, practice, guidelines, theories, facilitation techniques and evaluation of the therapeutic recreation process.

**TREC 421 MNGT IN THERAPEUTIC RECREATION (3 Hours)**

This course is a study of the principles, methods, techniques, organizational patterns, personnel, public relations and administrative problems involved in the management of therapeutic recreation programs.

**TREC 423 RESRCH & EVAL THERAPEUTIC RECR (3 Hours)**

Emphasis of the course on the principles and techniques of research and evaluation in therapeutic recreation to the organization, administrators, and objectives of viable therapeutic recreation programs. (Sum)

**TREC 424 SEM. IN THERAPEUTIC RECREATION (3 Hours)**

This course is designed to provide students with current information that pertains to issues, practices and procedures in therapeutic recreation. Emphasis will be placed on reviewing the literature, doing case studies, and abstracts.

**TREC 425 THERAPEUTIC REC INTRN PR (9 Hours)**

Emphasis is placed on supervised leadership assignments in public or private agencies institutions with emphasis on a variety of therapeutic recreation leadership experiences common to such organizational programs. Students will have the responsibility of planning, implementing, and evaluating a special senior program during internship. (F, S)

## Undergraduate Studies (UGST)

**UGST 110 COLLOQUIA (1 Hour)**

Colloquia are offered to first year students in a small setting designed to encourage creative thinking, independent learning outside the regular classroom experience and research opportunities. Course topics include: Discovering Careers for Science Majors, Leadership, College Bowl Challenge, and Discovering Careers for Undecided Majors.

## University Success (UNIV)

**UNIV 100 UNIVERSITY SUCCESS (2 Hours)**

This course serves as the nucleus of the First Year Experience and offers a global, comprehensive and personalized approach to student success through textbook, stimulating lectures, action research, leadership development, library initiatives, and service learning.

**UNIV 105 UNIVERSITY SUCCESS FOR ADULTS (2 Hours)**

This course is designed to assist adult learners in maximizing their potential to achieve academic success by providing a general orientation to the functions and resources of the University. The course is designed to help each student establish personal and professional goals and assess barriers to personal, academic, and career goals. In addition, the course is designed to provide students with positive learning experiences utilizing instructional methods of lectures, demonstrations, small and large group discussions, consultants and technology. The course will provide students with information on how to apply skills needed to take notes, communicate effectively, and develop good study skills to be successful college students. Students will have the opportunity to engage students in action research, leadership skills, library initiatives, and enrichment workshops/seminars activities relative to their academic, social, and professional success.

**UNIV 200 CIVIC ENGAGEMENT (1 Hour)****UNIV 201 TRANSFER CORE I (3 Hours)****UNIV 202 TRANSFER CORE II (3 Hours)****UNIV 203 TRANSFER CORE III (3 Hours)****UNIV 204 TRANSFER CORE IV (3 Hours)****UNIV 300 Experiential Learning I (12 Hours)**

## Urban Studies (UA)

**UA 200 INTRODUCTION TO URBAN STUDIES (3 Hours)**

An introductory course outlining life in urban environments. Attention will be devoted to urban growth in general, race relations, housing, transportation, government administration, and education and specific role that planning has in influencing urban life.

**UA 310 HISTORY OF CITIES (3 Hours)**

This course is a survey of the development of cities throughout history. Particular attention is paid to the form of development, politics, arts, aesthetics, economics, and culture of cities. Through lectures and class discussions, we will examine the American city in an effort to understand the basis for attempts to improve the urban environment.

**UA 336 HOUSNG PROBLEMS IN URBAN AMER (3 Hours)**

A survey course which examines factors that contributed to developments in housing in the past from the public and private sectors of society.

**UA 356 ISSUES IN COMMUNITY PARTICIPAT (3 Hours)****UA 366 PUBLIC POLICIES AND PRACTICES (3 Hours)**

This course is designed for majors and students interested in public and professional practices that direct the development of cities. Students will acquire knowledge of the issues, approaches, and impacts of public policy making on city development. Equally, they will learn the practices exercised by professions to implement policy mandates in a plural environment.

**UA 400 INTRO TO ENVIRONMENTAL STUDIES (3 Hours)**

The environment is a vital component of communities; economies and quality of life as well as of public health. Students who complete this course will gain an understanding of the major environmental concerns in the United States, including those involving protection of natural assets as well as those involving protection from natural and man-made hazards. Students will also become familiar with the major federal environmental regulatory policies and their effects at the community level.

**UA 420 TRANSPORTATION PLANNING (3 Hours)**

**UA 421 COMMUNITY OF DEV THEORY AND PR (3 Hours)**

This course provides students with the essentials of community development and the skills of local capacity building that are needed in order to foster sustainable community development. It is not designed to give you answers on how to achieve sustainable development, but rather to expose you to a variety of elements and viewpoints about it. The course will broaden your horizon about what community development is and how it is pursued; it will reevaluate your assumptions and stereotypes about the world, how it works and what can be done to make things better. The course emphasizes that community building begins with the process of locating assets, skills and capacities of residents, citizens associations, and local institutions. The major thrust is on rebuilding community by releasing individual capacities, the power of the local associations and organizations and capturing institutions.

**UA 493 DIRECTED STDY URBAN AFFR (1-6 Hours)**

Prerequisite: Limited to Senior Urban Affairs majors only.

Students must have taken at least three semesters of coursework at JSU, are in good standing, and have approval from program coordinator and agreement from a specific faculty member who will guide their independent study. This course will be individualized and will deal with selected topics in the study of Urban Affairs. Within the first three weeks of semester, student should have a proposed scope of work on file with the faculty member.

**UA 495 INTERNSHP IN URBAN AFFRS (4 Hours)**

Prerequisite: Senior standing; Urban Affairs majors only.

This course entails supervised field work with private, public, or nonprofit organization related to his emphasis or minor.

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