

# Administrative Officers

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## BOARD OF SUPERVISORS, SOUTHERN UNIVERSITY

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# SOUTHERN UNIVERSITY and A&M COLLEGE Lagniappe Initiative

An educated society is a successful society. The mission of any university should be to prepare its attendees and employees for their role in society. This preparation is a collective effort of all members of the University community – faculty, staff, administrators, and students – who serve and attend the institution of higher learning. It is imperative that an institution have a shared set of values. Everyone should be aware of the values, able to articulate them, and willing to put them into practice.

Southern University has developed such a set of values that will guide this institution into the future – Lagniappe: **L**eadership, **A**ccountability, **G**iving, **N**urturing, **I**ntegrity, **A**ccessibility, **P**ride, **P**atience, and **E**xcellence. Lagniappe, derived from the French & Creole cultures means “something extra.” Lagniappe is not only what Southern University has determined to be its principal values, but it defines the efforts and expectations of all those in the University community. It is essential that not only administrators “give something extra”, but that professors, staff, and students do so also. Lagniappe is not just a word at Southern University; it defines who we are as an institution and the role we play, not only in the Greater Baton Rouge community, but in the world at-large.

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# The University

Southern University and A&M College is a comprehensive institution offering four-year, graduate, professional, and doctoral degree programs. The University is part of the only Historically Black Land Grant University System in the United States. It offers bachelor's degrees in 44 areas, 24 master's, six doctoral, and one associate degree.

An average of 8,000 students are enrolled each year at the Baton Rouge campus.

## ORGANIZATION

The Southern University System, composed of campuses in Baton Rouge, New Orleans, Shreveport, the Agricultural Research and Extension Center, and the Law Center, is managed by the Southern University Board of Supervisors. The president is the chief administrative officer for the Southern University System.

The chief administrative officer of Southern University at Baton Rouge is the Chancellor. Reporting directly to the Chancellor are the Executive Vice Chancellor and Provost, the Vice Chancellor for Finance and Administration, the Vice Chancellor for Student Affairs and the Vice Chancellor for Research and Strategic Initiatives.

The academic organization of the Baton Rouge campus consists of the College of Agricultural, Family, and Consumer Sciences, College of Arts and Humanities, College of Business, College of Education, College of Engineering, College of Sciences, Honors College, University College, School of Architecture, School of Nursing, Nelson Mandela School of Public Policy and Urban Affairs, and the Graduate School. Also included in the organization are the divisions of Military Science (Army ROTC), Naval Science, and International Education.

## LOCATION

The Baton Rouge campus is located on Scott's Bluff overlooking the Mississippi River in the northern section of the City of Baton Rouge. The city parish has a population of more than 500,000 and serves as a cultural, political, educational, and industrial center for South Louisiana. The campus encompasses 512 acres, with an agricultural experimental station on an additional 372-acre site, located five miles north of the main campus.

## MISSION STATEMENT

The mission of Southern University and A&M College, an Historically Black, 1890 Land-Grant Institution, is to provide opportunities for a diverse student population to achieve a high-quality, global educational experience, to engage in scholarly research, and creative activities, and to give meaningful public service to the community, the state, the nation, and the world so that Southern University graduates are competent, informed, and productive citizens. (Adopted by Board of Supervisors October 25, 2007.)

## STATEMENT OF PURPOSE

The Southern University and A&M College offers programs of study ranging from bachelor's degrees to doctoral and professional degrees. Educational opportunities are provided for traditional and non-traditional students offering scholarly interaction among diverse people. The University is committed to a broad program of research, both basic and applied, and creative work to stimulate the faculty and students in a quest for knowledge and to aid society in resolving its scientific, technological, socioeconomic, and cultural problems.

Southern University renders service to the community through urban/rural programs and makes available educational, cultural, and developmental resources to enhance the quality of life. Adhering to the spirit of its function as an 1890 Land-Grant Institution, the University's public service programs have assumed a prominent posture throughout the State of Louisiana, nationally, and internationally.

Southern University views diversity as vital to the health of any educational enterprise. To support this philosophy, the University takes affirmative steps to maintain a multicultural faculty, staff, and student body. This diversity is achieved principally through assertive recruitment efforts and through multifaceted international programs.

The University seeks to recruit and maintain a faculty, which through its preparation and scholarly activities, exerts a profound effect on various institutions in the state, region, nation, and world. Beyond their traditional roles, faculty members perform distinguished services that complement and enhance both teaching and research initiatives and provide an additional mechanism for Southern University to have an impact on the community at large.

The University develops and maintains a physical environment that is safe and conducive to intellectual growth and development while operating in accordance with the highest standards of fiscal and administrative management. This environment is enhanced through the use of the most recent information technology, which offers the university community access to resources from throughout the world.

## **ACCREDITATION**

Southern University and A&M College is accredited by the Commission on Colleges of the Southern Association of Colleges to award associate, baccalaureate, masters, doctorate and professional degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call (404) 679-4500 for questions about the accreditation of Southern University.

The curricula in the Departments of Civil, Electrical, and Mechanical Engineering are accredited by the Accreditation Board for Engineering and Technology (ABET). The School of Architecture curriculum is accredited by the National Architectural Accrediting Board. Music programs in the Department of Music are accredited by the National Association of Schools of Music. The Department of Mass Communications is accredited by the Accrediting Council on Education in Journalism and Mass Communications (AEJMC). The Teacher Education Program is approved by the National Council for the Accreditation of Teacher Education. The Department of Chemistry is approved by the American Chemical Society. The Department of Social Work is accredited by the Council on Social Work Education. The Division of Family and Consumer Sciences is accredited by the Council for Accreditation of the American Association and Family and Consumer Sciences. The Didactic Program in Dietetics is accredited by the Commission on Accreditation for Dietetics Education of the American Dietetic Association. The Dietetic Internship is accredited by the Commission on Accreditation for Dietetics Education of the American Dietetic Association. The Scientific Option and the Information Systems Option in the Department of Computer Science are accredited by Accrediting Board for Engineering and Technology. The School of Nursing is accredited by the Louisiana State Board of Nursing, the National League for Nursing, and the Commission on Collegiate Nursing Education. The College of Business is accredited by the AACSB International. The School of Law is approved by the American Bar Association. The Public Administration-Generalist program is accredited by the National Association of Schools of Public Affairs and Administration. The Visual Arts program is accredited by the National Association of Schools of Art and Design (NASAD). The Mental Health Counseling program is accredited by the Council for Accreditation of Counseling and related Educational Programs (CACREP). The Rehabilitation Counseling program is accredited by the Council of Rehabilitation Education. The Speech-Language Pathology program is accredited by the American Speech-Language-Hearing Association (ASHA).

## **PHYSICAL FACILITIES**

The Southern University and A&M College, Baton Rouge campus, is one of the most beautiful campuses in the South. Lake Kernan flows through the center of the campus and the Mississippi River forms its western boundary.

Since 1960, buildings containing more than 2,000,000 square feet of floor area have been constructed. These buildings include the F. G. Clark Activity Center, J. S. Clark Administration Building, E. N. Mayberry Dining Hall, Music Recital Hall, Band Building, John B. Cade Library, School of Nursing Building, Health Research Wing of Lee Hall, Rodney G. Higgins Hall for Social Science, Augustus C. Blanks Hall for Special Education and Psychology, Baranco-Hill Student Health Center, and a the College of Engineering Building, P.B.S. Pinchback.

The Smith-Brown Memorial Union, a 66,200-square feet multipurpose building which serves as a major center for extracurricular activities, is known as the campus "living room." The recently renovated Union features a

food court with popular food outlets; barber and beauty shops; television rooms; 12 bowling lanes; a game room for billiards, video games, and quiet games; an art gallery; a browsing room; a ballroom, meeting and conference rooms; and a U.S. Post Office. The building also houses offices for student organizations.

**The F. G. Clark Activity Center** has accommodations for theater, athletic events, conferences, convocations, and recreational activities. The building houses the Athletic Department.

**The J. S. Clark Administration Building** contains the offices of the Southern University Board of Supervisors, the Southern University System officers, the Chancellor of the Baton Rouge campus, and other campus administrative officers.

**E. N. Mayberry Dining Hall** contains the Magnolia Room, the Cypress Room, and the Oak Room, which is for student dining. Dunn Cafeteria is located in the Freshman Complex.

## JOHN B. CADE LIBRARY

[www.lib.subr.edu](http://www.lib.subr.edu)

**Dean: Emma Bradford Perry**

The John B. Cade Library has over one million volumes with four floors and a seating capacity of 1,400. The Library subscribes to over 2,093 journals and has an extensive documents and video collection. Special collections include the Camille Shade African American Collection, Archives, and Music Listening. Over 50 databases are available from the library's website. More than 200 computers are available throughout the Library for staff and patron use. The Library is also a member of the Louisiana Online University Information System (LOUIS). The Library Learning Resource Center and the new Information Technology Center are the two most heavily used areas of the Library which provide word processing, desktop publishing, spread sheet application software, Internet access, multimedia graphic workstations/scanners, color laser, B/W laser printers and access to other electronic resources and information. For technology innovations and especially the Electronic Reserve Library, the Library received the 1999 Imaging Solution of the Year Award in Document Imaging and Electronic Image Management, the 1999 Process Innovation Award in Education and a commendation from the Southern Association of Colleges and Schools (SACS). The Board of Regents has recognized the Library for its innovations and access to technology during their accreditation visits. The library is technologically sophisticated due to the Library's success in writing nearly a million dollars worth of grants for technology improvements.

The John B. Cade Library offers a host of services to the Southern University community. The library is the focal point of the university where one can go to obtain various types of information ranging from reference services, access service, electronic resources, online databases, and the use of the World Wide Web/Internet. The list of services include:

### ONLINE CATALOG

**SIRSI** – is an integrated online library system. Patrons are able to locate materials (books, journals, videos, etc.) owned by the Library and other libraries in the state.

### ELECTRONIC JOURNALS AND BOOKS

**The Library** has journals and books online. The journals provide full-text as well as the feature to purchase articles.

### INSTRUCTIONAL GUIDES

**Library Brochures** – Brochures have been compiled about the various departments within the John B. Cade Library. These brochures are available on the library's website as well as print copies in the Library.

**Resource Guides** – Guides have been compiled by library liaisons for each discipline. These guides contain reference resources that are pertinent for each specific discipline. These guides are available on the library's website as well as print copies in the Library.

### INTERLIBRARY LOAN (ILL)

**ILLiad** – ILL is a means to obtain materials that the library does not have in the collection for graduate students and faculty. Users have access to the system from anywhere that they have access to the Internet.

## HISTORICAL STATEMENT

In 1879, P. B. S. Pinchback, T. T. Allain, T. B. Stamps, and Henry Demas sponsored the movement in the Louisiana State Constitutional Convention that resulted in the establishment in the City of New Orleans of an institution "for the education of persons of color." This institution was chartered as Southern University in April, 1880, by the General Assembly of the State of Louisiana. The State Legislature passed Act 87 in 1880 as a proper act of incorporation and governance of the Institution. Section 7 of this Act provided that this Board of Trustees "shall establish a faculty of arts and letters, which shall be competent to instruct in every branch of liberal education; and under the rules of, and in concurrence with the Board of Trustees, to graduate students and grant degrees pertaining to arts and letters. . .on persons competent and deserving."

On October 19, 1880, the Board of Trustees was organized under the Chairmanship of Dr. J. B. Wilkinson. A. Mercier was elected President of the Board; T. T. Allain, Vice President, and Edwin W. Fay, Secretary-Treasurer. Other members of the Board were: General Zebulon York, Washington Saunders, S. D. Stockman, I. N. Marks, A. R. Gourrier, and George Fayerweather.

The Board of Trustees elected A. R. Gourrier to serve as President of Southern University, but he resigned on February 14, 1881, before the University opened. The Board then elected George Fayerweather as Interim President. During this administration, the University was opened. Successive presidents were: the Reverend C. H. Thompson, Rector of St. Philip's Episcopal Church, 1882-1883; the Reverend J. H. Harrison, graduate of Vanderbilt University, 1883-1886; George W. Bathwell, 1886-1887; and H. A. Hill, 1887-1913.

On December 1, 1880, five individuals were bonded to establish the University Treasury. They were George Fayerweather, bonded for \$10,000, and four residents of Feliciana Parish - Albert Mayer, D. J. Wedge, J. G. Kilbourne, and W. H. Piper - each bonded for \$2,500. The trustees then purchased the building of the Hebrew Girls School, formerly the Israel Sinai Temple Synagogue, on Caliope Street, between St. Charles and Camp streets in New Orleans, as the site for the University.

Southern University was opened on March 7, 1881, with 12 students. The University's support was secured by a Constitutional provision, on February 6, 1882, which granted an annual State appropriation of \$10,000. At the same time the Legislature reorganized the Board of Trustees with W. H. Chaffee, President; T. T. Allain, Vice President, and Charles Keever, Secretary Treasurer. By 1886, the University had outgrown its facilities and a State appropriation of \$14,000 was used to purchase the square at Magazine and Soniat streets. Later, two classic Doric columned buildings were erected. In 1890, an Agricultural and Mechanical Department was established. In 1891, Southern University was recognized by the Federal Government as a Land Grant College under the Federal Act of 1890, known as the Second Morrill Act.

Legislative Act 118 of 1912 authorized the closing and sale of Southern University of New Orleans, and the reestablishment of the University on a new site. Act 118 also provided for the reorganization of the University with a new Board of Trustees to be appointed to four-year terms by the State Governor. This Act was validated by the Supreme Court on June 14, 1913. In July of 1913, the Board of Trustees elected Joseph Samuel Clark, President of Baton Rouge College and the Louisiana Colored Teachers Association, to serve as President of the "New" Southern University. In 1914, Southern University in New Orleans was closed by Legislative authorization. On March 9 of that same year, the "New" Southern University was opened in Scotlandville, Louisiana.

The Louisiana Constitutional Convention of 1921 authorized the reorganization and expansion of Southern University; and Legislative Act 100 of 1922 provided that the University be reorganized under the control of the State Board of Education, effective immediately.

The State Constitution Convention of 1973 authorized a Board of Supervisors for Southern University. In 1977, the Southern University Board of Supervisors reorganized the system and Dr. Jesse N. Stone, was designated System President, with office and residence on the Baton Rouge campus. The chief administrative officer on each campus was designated Chancellor. They were Dr. Roosevelt Steptoe, Chancellor, Baton Rouge campus (1977-1982); Dr. Emmett W. Bashful, Chancellor, New Orleans campus (1977-1986), and Leonard Barnes, Chancellor, Shreveport campus (1977-1986).

On June 29, 1985, the Southern University Board of Supervisors changed the name of Southern University

School of Law to the Southern University Law Center. Dr. B. K. Agnihotri was named Chancellor (1985-2000). Judge Freddie Pitcher became Chancellor of the Southern University Law Center in January 2003.

Other System Presidents have been Dr. Joffre T. Whisenton, (1985-1988), Dr. Dolores R. Spikes (1988-1996), and Dr. Leon Tarver II (1997-2005). Dr. Ralph Slaughter became System President May 2006.

Other Chancellors of the Baton Rouge campus have been Dr. James J. Prestage (1982-1985), Dr. Wesley McClure (1985-1988), Dr. Dolores R. Spikes, (interim 1988-1991), Dr. Marvin Yates (1991-1998). Dr. Edward R. Jackson (1998-2008). Dr. Kofi Lomotey became Chancellor of the Baton Rouge campus on July 1, 2008.

## **COOPERATIVE AND DUAL DEGREE PROGRAMS**

Southern University and Louisiana State University (LSU) in Baton Rouge conduct cooperative programs. Additionally, the two universities have participated in programs involving students and faculty members, library usage, and research endeavors. Increased efforts in these regards were prompted by the Consent Decree of 1980 and the Settlement Agreement of 1994. The Consent Decree and the Settlement Agreement provided for augmentation and enrichment of educational programs in historically black colleges and universities in Louisiana. They further encouraged more cooperation between Southern University and LSU. Southern University and LSU offer a dual degree program in chemistry-chemical engineering. Cooperative programs in electrical, mechanical, and civil engineering are offered with Jackson State University in Mississippi and Xavier University of New Orleans.

## **UNDERGRADUATE DEGREES OFFERED**

### **COLLEGE OF AGRICULTURAL, FAMILY, AND CONSUMER SCIENCES**

- Bachelor of Science in Agricultural Economics
- Bachelor of Science in Agricultural Sciences
- Bachelor of Science in Family and Consumer Sciences
- Bachelor of Science in Urban Forestry

### **COLLEGE OF ARTS AND HUMANITIES**

- Bachelor of Arts in English
- Bachelor of Arts in Visual Arts
- Bachelor of Arts in French
- Bachelor of Arts in History
- Bachelor of Arts in Mass Communications
- Bachelor of Music
- Bachelor of Arts in Spanish
- Bachelor of Arts in Speech Communication
- Bachelor of Arts in Theatre

### **COLLEGE OF BUSINESS**

- Bachelor of Science in Accounting
- Bachelor of Science in Business Economics
- Bachelor of Science in Finance
- Bachelor of Science in Business Management
- Bachelor of Science in Marketing

### **COLLEGE OF EDUCATION**

- Bachelor of Arts in Early Childhood Education
- Bachelor of Arts in Elementary Education
- Bachelor of Arts in Middle School Education
- Bachelor of Music Education—Instrumental Option
- Bachelor of Music Education—Piano and Voice Option

Bachelor of Science in Secondary Education  
Bachelor of Science in Therapeutic Recreation and Leisure Studies

**COLLEGE OF ENGINEERING**

Bachelor of Science in Civil Engineering  
Bachelor of Science in Electrical Engineering  
Bachelor of Science in Electronics Engineering Technology  
Bachelor of Science in Mechanical Engineering

**COLLEGE OF SCIENCES**

Bachelor of Science in Biology  
Bachelor of Science in Chemistry  
Bachelor of Science in Computer Science—Scientific Option  
Bachelor of Science in Computer Science—Information Systems Option  
Bachelor of Science in Mathematics  
Bachelor of Science in Physics  
Bachelor of Science in Psychology  
Bachelor of Science in Rehabilitation Services  
Bachelor of Science in Social Work  
Bachelor of Science in Sociology  
Bachelor of Science in Speech Pathology and Audiology

**SCHOOL OF ARCHITECTURE**

Bachelor of Architecture

**SCHOOL OF NURSING**

Bachelor of Science in Nursing

**NELSON MANDELA SCHOOL OF PUBLIC POLICY AND URBAN AFFAIRS**

Bachelor of Arts in Political Science  
Bachelor of Science in Criminal Justice

\*For a listing of graduate degrees see page 217 of this Catalog.



# University Admissions

Southern University operates on a semester plan and holds an eight-week summer term. In compliance with Title VI of the Civil Rights Act of 1964, Southern University is open to all persons who are eligible for admission, regardless of race, color, sex, religion, age, national origin, physical disabilities, veteran status, or any other non-merit factors. Eligibility for admission is determined by the Office of Admissions in accordance with University policies.

The University has a selective admissions policy whereby entering Freshmen must achieve a score of 20 on the ACT (940 on SAT) or a 2.0 grade point average, or rank in the top 50% of graduation class and require no more than one remedial course. Additionally, entering freshmen must have successfully completed four units of English (I, II, III, and IV), three units of mathematics Algebra I, Algebra II, Geometry, Trigonometry, Calculus, or an approved advanced math substitute, three units of social sciences, (American History, World History, Western Civilization, or World Geography), three units of science (Biology, Chemistry and Earth Science, Environmental Science, Physical Science, Biology II, Chemistry II, Physics, Physics II, or Physics for Technology), two units of the same foreign language, one unit of fine arts survey, 1/2 unit of computer science, and one unit of the required advanced math or science (see below).

## ADMISSION STANDARDS

### Freshman Admissions

Beginning Fall 2008, high school graduates will have to complete 17.5 units. The additional unit must be chosen from Advanced Math or Science. Students who have earned diplomas from approved high schools in the United States should meet the following requirements for admission:

- High School units of 17.5 or more as follows:

<b>Subject:</b>	<b>Units:</b>
<b>English</b> Required: Four units of English Composition and Literature – English I, II, III, and IV (English 9, 10, 11 and 12) . . . . .	.4
<b>Mathematics</b> Required: Three units of mathematics to be selected from: Algebra I or Algebra 1A and 1B (two units) AND Algebra II AND either Geometry, Trigonometry, Calculus or an approved advanced math substitute . . . . .	.3
<b>Natural Science</b> Required: One unit of Biology, AND Chemistry AND either Earth Science, Environmental Science, Physical Science, Biology II, Chemistry II, Physics, Physics II, Physics for Technology (one unit) . . . . .	.3
<b>Social Sciences</b> Required: American History AND either World History, Western Civilization, or World Geography AND either Civics and Free Enterprise (one unit combined) or Civics (one unit) . . . . .	.3
<b>Fine Arts Survey</b> Required: Fine Arts Survey or substitute two units of performance courses in music, dance and/or theater; or two units of visual arts; or substitute two units of studio art; or substitute one unit of an elective among the other subjects listed in this core curriculum . . . . .	.1
<b>Foreign Language</b> Required: Two units of the same language . . . . .	.2
<b>Computer Science</b> Required: 1/2 unit of computer science, computer literacy, or business computer applications, or substitute at least one-half unit of an elective course related to computers approved by the State Board of Elementary and Secondary Education or one –half unit as an elective from among the other subjects listed in this core curriculum . . . . .	.1/2
<b>Advanced Math or Science</b> Required: Geometry, Pre-Calculus, Algebra III, Probability and Statistics, Discrete Mathematics, Applied Mathematics III, Advanced Mathematics I, Advanced Mathematics II, Integrated Mathematics III, Biology II, Chemistry II, Physics or Physics II . . . . .	.1
<b>TOTAL</b> . . . . .	<b>17.5 or more units</b>

AND

- ACT Score of 20 or better (SAT of 940 or better.)

OR

- High School GPA of 2.0 (based on 4.0) or better.

OR

- Rank in top 50% of graduation class

AND

- Require no more than one remedial course by having a minimum ACT English score of 18 or math score of 19 (SAT verbal score of 450 or SAT math score of 460-470)

## **Admissions for First-Time Freshmen from Out-of-State High Schools or Home-School Programs**

Freshmen students, who graduate from out-of-state schools or are home schooled, must meet one of the following minimum admissions criteria.

### **Criteria 1:**

1. Completion of Board of Regents' High School Core Curriculum;
2. Minimum ACT English score of 18 or math score of 19 (SAT verbal score of 450 or math score of 460-470);
3. One of the following:
  - i. Minimum high school GPA of 2.0 on a 4.0 scale; OR
  - ii. Minimum composite ACT score of 20 (SAT score of 940); OR
  - iii. Rank in the upper 50% of the high school graduating class.

### **Criteria 2:**

1. Minimum composite ACT score of 20 (SAT score of 940) AND
2. Minimum ACT English score of 18 or math score of 19 (SAT verbal score of 450 or math score of 460-470); AND
3. Minimum high school GPA of 2.0 on a 4.0 scale AND
4. Rank in the upper 50% of the high school graduating class.

### **Criteria 3:**

1. Minimum composite ACT score of 23 (SAT score of 1060) AND
2. Minimum ACT English score of 18 or math score of 19 (SAT verbal score of 450 or math score of 460-470).

## **Honors Admissions**

Students who complete a college preparatory curriculum from an accredited or state-approved high school with a minimum of 16 units, high school GPA 3.0 or better, and ACT score of 23 or above (SAT of 1070 or above) may apply for regular admission and will be eligible to apply for the Honors College. The 16 units required include: 4 units of English I, II, III, and IV with no substitutions; 3 units of mathematics taken from Algebra, Geometry, Trigonometry, Advanced Mathematics, or calculus; 3 units of natural science including Biology, Chemistry, and Earth Science or Physics; 3 units from foreign languages (w units in the same language), visual or performing arts, computer science or mathematics above College Algebra (depending on above choice in mathematics). Added requirements are a 250-word essay on a special topic and two letters of recommendation.

## **Admissions for Adult Students aged 21-24**

Adult Students aged 21-24 are required to meet the minimum freshman admissions criteria. Such students who do not may be admitted under one of the following categories:

1. Admissions exception.

2. Non matriculating. Students admitted under this category may change their status from non-matriculating to matriculating by meeting the minimum transfer admission criteria.
3. Matriculating, part time. Students admitted under this category may enroll for no more than 3 hours in the summer or 6 hours in the fall or spring semesters. Students admitted under this category may be allowed to enroll in additional hours by meeting the minimum transfer admission criteria.

### **Admissions for Adult Students aged 25 and over**

Adult students aged 25 and over are not required to meet the minimum admissions criteria for a first-time freshman.

For an adult student that wishes to transfer, that student is required to meet the minimum admissions criteria for transfer students.

### **Admissions for Students with GED**

Students who have successfully completed the General Education Development (GED) program must have an ACT composite score of 19 or higher (SAT of 900 or higher), meet the unit requirements, and submit a transcript with satisfactory grades. The records of these students will be evaluated carefully by the Admissions Committee. Consideration may be given to the elective courses specified above as well as the applicants' entire academic background.

### **Admissions for Students from Unapproved Schools**

Graduates from high schools not approved by a state department of education must meet special requirements and submit satisfactory grades and an ACT composite score of 20 or higher (SAT of 940). The records of these students will be evaluated carefully by the Admissions Committee.

### **Provisional Admissions**

Students who meet the ACT/SAT and the high school GPA requirements but have up to two deficiencies in the core curriculum may be admitted provisionally and may be fully admitted depending on the requirements being met once the official final high school transcript has been received.

### **Early and Concurrent Admissions**

Early admission permits high school students who have not completed all the requirements for a high school diploma to apply for admissions to Southern University as regular students. Students are considered on the basis of academic achievement, general maturity and readiness to begin college work. However, some minimum requirements must be met.

- Completion of eleventh grade in high school.
- A GPA of at least 3.5 (out of 4.0) on all academic work pursued during the last three years of six semesters of high school.
- ACT Score of 24 or better
- Recommendations from high school principal or counselor
- A letter from applicant stating the reason for seeking early admission

### **Admission to Freshman Standing**

Completed applications must be returned to the Office of Admissions by the appropriate deadline dates. Applications must be accompanied by complete high school transcripts. With date of graduation posted, ACT, SAT, or TOEFL scores, proof of immunization, and appropriate application fees. (Do not send cash.)

Application deadlines: July 1 for Fall Semester; November 1 for Spring Semester; and April 1 for the Summer term.

Fees: A non-refundable application fee of \$20 (\$30 for International Students) must accompany each application for admission. The fee should be paid by U.S. money order or cashier's check and should show the name of the student from whom payment is made. The university does not accept personal checks.

## ADMISSIONS FOR INTERNATIONAL STUDENTS

International students for whom English is a second language are required to demonstrate English proficiency by submitting the minimum required TOEFL score or providing other documentation deemed acceptable by the university. International applicants should meet the following requirements:

- A score of 500 (173 on the computer based test) on the paper based test
- High School GPA of 2.5 or better

### Admissions for Freshman International Students

Applications must be completed properly and submitted before the deadlines established for admitting international students. An application fee of \$30 (money order or cashier's check) must accompany the application. Supporting documents, which include all official high school transcripts and Leaving School Certificates or affidavits of support, TOEFL scores or West African Examinations scores, and SAT or ACT scores must be submitted before students can be considered for admission to the University.

Freshman international students must have completed a recognized secondary program comparable to U.S. high school graduation, and have academic records comparable to those required to meet the freshman admission criteria. All credentials must be translated into English and certified to be original documents before they will be accepted by the Office of admissions. Affidavits of support must be original and notarized for the year of anticipated enrollment. Completed applications with the above required attachments must be received by the Office of Admissions at least 90 days prior to the anticipated date of registration if student are outside the United States. International students who score 400-449 on the TOEFL are required to earn grades of "C" or better in Freshman Composition, ENGL 110 and 111 (ESL, English as a Second Language). Those scoring 450-499 on the TOEFL are required to earn a grade of "C" or better in English 111 (ESL).

Visa Requirements. Regulations of the United States Department of Justice, Immigration and Naturalization Service, governing nonimmigrant F-1 students require international students in this category to pursue a full course of study while maintaining nonimmigrant student status. Under this regulation, an undergraduate student will be required to register for at least 15 semester hours, and a graduate student will be required to register for at least nine semester hours of course work in a degree or certificate program. Any modification of these requirements resulting in non-degree study or a course load less than the above minimum requirements must be authorized by the international student advisor in consultation with the director of admissions and the academic advisor.

Students who fail to observe the above requirements will not be eligible to receive a Certificate of Eligibility (Form I-20) and other letters of certification in support of their continuation in the nonimmigrant F-1 student status.

Students bearing nonimmigrant Foreign Student F-1 visas are required to attend, initially, the educational institution that issued the Certificate of Eligibility (Form I-20).

Students in the Exchange Visitor Visa (J-1) category requesting transfer to the University's Private Exchange Visitor program from another program number must obtain approval from the international student advisor before admission to the University becomes valid.

Questions concerning United States Immigration and Naturalization Service regulations should be directed to the international student advisor.

### Other Criteria

In order to minimize test bias and to recognize artistic, scholarly, athletic, and leadership talents, it is recommended that up to 15 percent of the total number of students admitted each year be selected from the population referenced above, minimum criteria not withstanding. Of the 15 percent, ten percent must be selected from other race students. The Admissions Committee will carefully review individual records of applicants in this category. The process of admitting these students may include personal interviews, written essays, recommendations from high school administrators, counselors, or teachers, demonstrated exemplary talents, leadership abilities, and significant life and career experience. The precise mechanism for administering the admissions exceptions will be developed by the University.

## Transfer Admissions

Students desiring to transfer from REGIONALLY ACCREDITED colleges and universities to Southern University must have either earned an Associate Degree or higher or meet the following minimum admissions criteria.

- Students with 12 hours or more must have a GPA of 2.0 (based on 4.0) on all transfer work.
- Students must have no more than one developmental course required.
- Students transferring with the minimum GPA on college level courses, but less than the minimum college level hours earned, must also meet the freshman admissions criteria (as stated in this catalog) in order to be admitted as transfer students.
- Students desiring admission as transfer students and in need of more than one developmental course will not be eligible for transfer.
- Transfer students must be eligible to re-enter the institution from which they are transferring. Students in this category must meet all other requirements for admission of transfer students as set forth in the most recently published University catalog.

TRANSFER STUDENTS MUST SUBMIT THE FOLLOWING OFFICIAL DOCUMENTS:

- Official college transcripts from each college or university attended
- Transfer Reference sheet,
- Copy of the Immunization Record
- A copy of the social security card.

**NOTE:** Individual colleges or schools within the University may have specific requirements for admission above those listed here. For information concerning individual college requirements, consult the appropriate college section of this catalog.

## Transfer International

All international students applying for admission must arrange to have official transcripts sent directly to the Registrar's Office from all colleges

- International students for whom English is a second language are required to demonstrate English proficiency.
- All international students whose first language is not English and "who are applying?" for admission as undergraduate students must take the Test of English as a Foreign Language (TOEFL).
- A current notarized statement of financial support
- Transfer international students must have completed a recognized secondary program.
- A minimum TOEFL score of 500 paper or 173 computer or provide other documentation deemed acceptable by the institution to which the student is seeking admission.
- Transfer international students must meet transfer admission criteria.

**NOTE:** International students who took English courses in their native country will not be allowed to use the credits at Southern University towards a degree. However, arrangements can be made with the Department of English to take an advance placement test. No transfer credit will be accepted if the school is not listed on the application. Personal student papers, Photostats, or attested copies are not accepted for evaluation purposes.

## Transfer Adults

Transfer adults aged 25 and over are required to meet the minimum admissions criteria for transfer students.

Transfer adults aged 21-24 are required to meet the minimum admissions criteria for transfer students.

## Summer Only

Students applying for admission to the University for Study during summer only must submit:

- Letter of good standing from institution where currently enrolled  
(must be as of the end of current semester)
- Copy of Immunization Record
- Copy of Social Security Card (Please let us know if you do not have a card)

## Acceptance of Transfer Credit

The maximum amount of transfer credit allowed for to satisfy graduation requirements is 93 semester hours. Transfer credits for students seeking transfer admission are evaluated on the basis of each course. The guide, *Transfer Credit Practices of Designated Educational Institutions*, is a primary source for determining the eligibility of transfer credit from colleges and universities within the United States.

The maximum number of credit hours transferable from a junior college is 64 semester hours. Students transferring from Southern University, Shreveport-Bossier may transfer a maximum of 70 semester hours.

Transfer credit allowed by the Office of the Registrar is subject to review by the student's senior college or school with regard to its applicability toward a particular degree. The student is expected to conform to all requirements for the chosen degree program. Questions relating to the applicability of credit to degree requirements should be referred to the appropriate senior college or school.

## Request for Transfer Credit

Students matriculating at Southern University who are planning to enroll for transfer credits at other institutions must seek prior approval for the course(s) to be transferred by completing Southern University's "Resident Students Request for Transfer Credit" form.

Failure to receive prior approval may jeopardize the acceptance of transfer credits. It is the student's responsibility to request that an official transcript of courses taken at other institutions be forwarded to the Office of the Registrar at Southern University in Baton Rouge.

## Transfer of Credit Appeals

Any student who desires to appeal a transfer credit decision must apply to Enrollment Services within 30 days after initial enrollment at the University.

**NOTE:** Request for transfer information and applications for undergraduate admission should be directed to the Registrar's Office, P. O. Box 9280, Southern University, Baton Rouge, Louisiana 70813; telephone (225)771-5050; fax (225) 771-5064.

## READMISSION FOR UNDERGRADUATE STUDENTS

An undergraduate student whose studies at the University are interrupted for any reason for a period of two or more consecutive semesters (excluding the Summer term) must submit an application for readmission to the Office of the Registrar, unless written permission to study at another institution has been secured in advance or the student has been granted an official leave of absence. Applications for readmission must be submitted by the appropriate deadline date (See application deadline dates, page 19).

Early application for readmission allows students to participate in early registration. If readmission is approved, the student is subject to the academic requirements and regulations in effect at the time of readmission. A non-refundable readmission application fee of \$20 must accompany each application form. **Payment may be made by U.S. money order or cashier's check. The University does not accept personal checks.**

## **ADMISSION OF STUDENTS WITH DISABILITIES**

Admission to the University and to all programs and operations is open to all persons, regardless of race, creed, color, sex, age, marital status, disability, veterans' status, or national origin, who meet the admission requirements and qualifications of the University.

Students with questions may communicate with appropriate campus offices or directly with the Office of Admissions, P. O. Box 9901, Southern University, and Baton Rouge, LA 70813.

## **LOUISIANA RESIDENCE STATUS**

For purposes of assigning tuition and fees at institutions in the Southern University System, a resident shall be defined as an individual who has abandoned all prior domiciles, established a domicile in the State of Louisiana, and who has been domiciled in the state continuously for a period of at least one calendar year immediately preceding the first day of classes for which resident classification is sought. The individual's physical presence within this state solely for education purposes will not be sufficient for resident classification, regardless of the length of time present within the state.

A person herein termed as a bona fide Louisiana resident is an individual who qualifies as a resident in accordance with the regulations prescribed in this section. An individual who is certified under one of the mandated criteria as a resident student by any one of the SU System's institutions shall so be recognized by every institution within the System, provided the individual's certifying category does not change.

A non-resident, for tuition purposes is defined as an individual who is not eligible for classification as a resident student under the regulations stated in this catalog.

## **APPLICATION DEADLINES**

Any applicant seeking certification as a resident or seeking non-resident fee exemption certification under any provision in this section shall submit an application and all required documentation to the Office of Admissions for receipt on or before the following dates:

- **July 1** for resident and exemption certification for admission the Fall semester.
- **October 1** for resident and exemption certification for admission in the Spring semester.
- **April 1** for resident and exemption certification for the Summer term.

The burden of proving entitlement to the benefits in this section shall be the sole responsibility of the applicant.

## **IMMUNIZATION POLICY**

Proof of immunization for measles, mumps, rubella, tetanus, diphtheria, and meningococcal is required prior to first time admission to the University. Students enrolling after an absence of one or more semesters must also furnish this proof of immunization.

## **CRITERIA FOR ESTABLISHING RESIDENT STATUS**

Persons applying for "resident" designation must provide to the Office of Admissions all of the documentation required for establishing eligibility for certification in at least one of the following categories on or before the appropriate deadline.

### **Spouse of Louisiana Resident**

The spouse of a natural Louisiana resident must submit to the Office of Admissions on or before the deadline:

- a copy of marriage license,
- spouse's Louisiana birth certificate, Louisiana high school diploma, Louisiana tax forms for past year(s) and 1040 Federal Tax Forms for past year(s), W-2 Form, certified copy of employment verification form, and

- documentation that the applicant's spouse has continuously resided in the state for at least 12 months immediately preceding the date of application.

If the applicant is a resident alien and legally married to a natural Louisiana resident or is a resident alien who is legally married to an individual who is a domiciliary of the State of Louisiana and is seeking resident student status by virtue of a spouse's employment, the applicant must also present a permanent resident alien (Green) card from the U.S. Immigration Service to the Admissions office.

### **Louisiana Resident by Virtue of Employment within the State**

Persons who are minors or less than 24 years of age and dependent upon parent(s) and whose parents have been residing in Louisiana and working full-time (40 hours a week) for a continuous minimum 12-month period immediately preceding the date of application, must submit the following to the Admissions Office on or before the deadline:

- copy of the Louisiana Tax form of parent(s),
- 1040 Federal Tax Forms of parent(s),
- W-2 Form of parent(s),
- applicant's birth certificate or copy of court papers verifying adoption,
- certified copy of employment verification form for parent(s), and any other documentation requested by the Admissions Office.

A person who has been residing in Louisiana and working full-time (40 hours a week) for a continuous minimum 12-month period prior to submission of an application, and who has not enrolled at any post-secondary institutions during the 12-month period immediately preceding the application deadline for the semester for which they are requesting resident designation is eligible to apply for resident status. An applicant for resident status must submit the following to Office of Admissions before the deadline:

- a copy of Louisiana tax form for the applicant/applicant's spouse,
- 1040 Federal Tax Form,
- W-2 Forms(s) for the applicant/applicant's spouse, and
- certified copy of the employment verification form for applicant, and any other documentation requested by the Admissions Office.

### **Military personnel stationed in Louisiana and their dependents**

In accordance with Louisiana Revised Statute 17:2137, an active duty or honorably discharged member of any branch of the United States Armed Forces, who was permanently stationed in Louisiana, a spouse or dependents shall qualify for resident status, if one of the following criteria is met:

- A member of the United States Armed Forces who is permanently stationed in Louisiana on active duty or his/her child or spouse without regard to length of time of residency in the state.
- A child or spouse of a member of the United States Armed Forces who has been assigned to duty elsewhere immediately following permanent service on active duty while stationed in Louisiana for as long as the child or spouse continuously resides in Louisiana after the duty assignment in the state of the military parent or spouse ends.
- Any member of the military, as well as his/her spouse and dependent, who was permanently stationed in Louisiana, and who enrolls as a Southern University student, provided that the individual(s) has been continuously residing in Louisiana after being honorably discharged from the United States Armed Forces.

An applicant seeking certification under any provision in this part shall submit the following to the Admissions Office on or before the appropriate deadline:

- copy of the dependent child's birth certificate or court approved adoption papers,
- copy of marriage certificate,
- copy of military personnel's orders reflecting permanent assignment to duty in Louisiana,
- copy of official orders reassigning the military parent or spouse from permanent duty in Louisiana to another duty station, and
- any other documentation requested by the Admissions Office.

### **CRITERIA FOR DETERMINING ELIGIBILITY FOR NON-RESIDENT FEE EXEMPTION**

Persons applying for a non-resident fee exemption must submit the documents for the applicable eligibility category to the Office of Admissions prior to the beginning of the enrollment period that they intend to enroll. Eligibility for exemption established following the beginning of the enrollment period shall be applicable for the next enrollment.

#### **Undergraduate Students**

Effective Fall 1997, students pursuing an undergraduate degree whose parent(s), mother and/or father, received a bachelor's degree from Southern University at Baton Rouge are eligible to apply for exemption from payment of 50 percent of the non-resident fee. To maintain eligibility for the exemption in each successive enrollment period, the student must maintain at least a 2.3 cumulative grade point average. The applicant must submit the following to the Admissions office on or before the applicable deadline:

- copy of applicant's birth certificate,
- copy of parent's diploma and/or transcript showing degree earned, and
- any other documentation requested by the Admissions Office.

Students applying for the exemption by virtue of adoption must submit the following to the Admissions office:

- copy of court records verifying adoption of applicant,
- copy of applicant's birth certificate,
- copy of parent's diploma and/or transcript showing degree earned, and
- other documentation requested by the Admissions Office.

#### **Non-Resident Athletic Scholarship Recipient Exemption**

Students enrolled at Southern University who are granted athletic scholarships, and who are not residents of this state, shall not be charged or required to pay any tuition or fees in an amount in excess of that which is charged to a students who are residents of the State of Louisiana. (See Louisiana Revised Statutes, R.S. 17: 1791)

#### **Non-Resident Participation in the National Student Exchange Program**

An exchange student from a participating out-of-state university who enrolls at Southern University and who pays in-state tuition at the home campus and opts to pay fees at Southern University will be exempt from the payment of non-resident fees for a maximum of two consecutive semesters. Non-resident fee exemption for a longer period requires the approval of all appropriate parties to the NSE Program agreement and Southern University.

## Graduate Assistants

A non-resident graduate student who is selected to serve as a graduate assistant at Southern University may be eligible for a full or partial exemption of non-resident fees. Eligibility of the exemption must be certified by the Office of Admissions. The following must be submitted by the student:

- a letter from the individual's department or college to the dean of the graduate school, verifying that the student has been awarded a graduate assistantship,
- a letter from the dean of the graduate school to the Admissions Office, verifying that the applicant meets eligibility requirements and is approved for appointment as a graduate assistant, and
- any other documentation requested by the graduate school or the Admissions Office.

If the student is a resident alien, the permanent resident alien card (green card), also must be submitted to the graduate school for copying.

## APPEAL OF DENIAL OF RESIDENT OR EXEMPTION CERTIFICATION

An applicant who wishes to appeal a decision of the Admissions Office denying resident or exemption certification must submit a written appeal to the Office of Academic Affairs not later than 14 calendar days after notice of such decision is mailed or hand delivered to the applicant. The appeal must state the grounds for the appeal and provide copies of any documentation which the appellant desires to have considered during the appellate review. The failure to timely lodge an appeal shall constitute a waiver of all claims of eligibility for certification for the applicable term(s).

## INCORRECT CLASSIFICATION

Any student who is incorrectly classified as a resident student is subject to reclassification and the assessment and payment of all nonresident fees that have not been paid during the period of incorrect classification and those otherwise due. If the incorrect classification results from false information or facts concealed by the student, the student is also subject to University disciplinary action.

## SERVICES FOR INDIVIDUALS WITH DISABILITIES

The Office of Disability Services (ODS) assists students in meeting their unique educational and social needs. Academic accommodations are made on the basis of students' documented disabilities.

These accommodations include special arrangements for campus tours and new student orientation, utilization of academic aids such as audio tapes, large print, tape recorders, note-takers and tutors, interpreters, assistance with admissions, class scheduling and registration, classroom and testing accommodations, academic counseling, and career placement.

Visually impaired (blind) students will receive notices of approved textbooks and other pertinent instructional materials for their classes at least forty-five days prior to the first day of each semester. The notice will indicate whether the textbooks are required, supplemental or recommended, and whether other versions of the textbook/s are acceptable.

Assistance is also provided for students with temporary disabilities. Students are encouraged to contact the Office of Disability Services, Southern University, P.O. Box 11298, Baton Rouge LA 70813; telephone, (225) 771-3950, for further information. Employees are encouraged to contact the Office of Human Resources, P.O. Box 10400, Southern University, Baton Rouge, LA 70813; telephone, 225-771-2680.

## Americans with Disabilities Act

### Policy

Southern University is committed to providing equal access for all persons with disabilities on the Baton Rouge Campus. The University recognizes that some persons with disabilities may require reasonable accommodations in order to achieve equal access to educational programs and activities.

Federal and state laws protect both employees and students from illegal discrimination. Southern University is obligated to maintain compliance within all relevant laws pertaining to discrimination when alleged on the basis of race, sex, national origin, religion, disability, age, veteran status, marital status, parental status or other protected categories under state and federal law.

Any person denied reasonable accommodations, access to a university program or service, or who was offered an accommodation that is not acceptable to the individual is eligible to file a complaint through the Southern University internal Discrimination Grievance Procedure. Persons with discrimination concerns are encouraged to consider the Southern University internal Discrimination Grievance Procedure prior to seeking relief in an external forum. Seeking resolution through Southern University's internal Discrimination Grievance Procedure will not impair the persons right to pursue remedies in another forum outside of SUBR.

All ADA discrimination/504 complaints should be addressed to:

Mrs. Debra Ephrom, ADA Compliance Coordinator  
 Room 305, J.S. Clark Administration Building  
 Southern University and A&M College  
 Baton Rouge, Louisiana 70813  
 Phone: (225) 771-5021 / Fax: (225) 771-2018 / (TTY): (225) 771-3824

In the event that the ADA Compliance Coordinator has a conflict of interest and/or due to other circumstances is precluded from conducting an investigation, the Director of Disability Services, as listed below, will coordinate the University's investigation and resolution of allegations of discrimination.

Mrs. Patricia Hebert, Director of Disability Services  
 Dept. of Special Education  
 246 Augustus C. Blanks Hall  
 Southern University - Baton Rouge  
 Baton Rouge, Louisiana 70813  
 Phone: (225) 771-3950 / Fax: (225) 771-2959

### **Authority**

The Office of Equal Opportunity and Affirmative Action, ADA Compliance Office and the ADA Advisory Council are responsible for investigating allegations of discrimination. This authority is delegated from the University President as system head and Chancellor as SUBR campus head. It carries the obligation to ensure that discriminatory practices and/or policies are prohibited at Southern University-Baton Rouge as a matter of policy.

When such practices or policies are identified, recommendations to the Chancellor will suggest corrective strategies. The Chancellor will direct implementation of the remedies and corrective action, as appropriate. These actions may include a specific remedy for the person filing the grievance; policy development and/or changes; disciplinary action against the alleged discrimination official; reconsideration of an action; or other remedies. A monitoring schedule also may be prescribed. This list is not exhaustive.

The relevant laws that must be followed by SUBR include, but are not limited to the following:

Title VII of the 1964 Civil Rights Act, as amended  
 Title VI of the 1964 Civil Rights Act, as amended  
 Title IX of the Educational Amendments of 1972  
 Age Discrimination Act of 1975  
 Section 504 of the Rehabilitation Act of 1973  
 Americans with Disabilities Act of 1990, as amended, including Title II of the Act

Other guidelines and interpretations also must be observed, including the Chancellors Memoranda, Southern University Board & System policies and guidelines, directives from the Louisiana Board of Regents or other recognized external regulatory agencies.

## Coverage

Discrimination in employment, student enrollment and to persons with disabilities is prohibited on the basis of:

- Race/ethnic group identification
- Sex (includes sexual harassment, which interferes with the working or learning environment. Discrimination on the basis of pregnancy is also prohibited.)
- National origin
- Religion
- Handicap or disability ( a physical or mental condition that substantially limits one or more major life activities)
- Age
- Veterans status (as a Vietnam-era veteran or a disabled veteran)
- Marital status
- Parental status
- Additional prohibitions exist to protect the rights of persons with a disability who seeks to access university programs or services in addition to employment and enrollment.

The Office of Equal Opportunity and Opportunity and affirmative Action, ADA Compliance Office and the ADA Advisory Council will determine whether the complaint states a claim under any of the relevant laws and guidelines.

## Rights of Grievant

Federal and state laws protect every person who files a discrimination grievance or who assists in the investigation in any way from acts of retaliation. Confidentiality of files and information will be maintained in accordance with federal and state law. It is the philosophy of this office that the most effective resolutions depend on informal contacts with the individuals involved. Highly formalized hearings and depositions may be necessary, but development of evidence and attempts at resolution will precede such steps.

All discrimination grievances which request an individual remedy must carry the signature of the grievant authorizing investigation of the issue(s). Those, which anonymously allege discrimination, will be reviewed as time permits.

## Rights of the University and Individual Respondents

Since the purpose of the investigation is to determine the facts surrounding the grievance and develop a possible solution, communication with those named in the grievance is essential. Complete statements of facts and response to concerns outlined in the grievance will be sought from all persons with relevant information. No reports or recommendations will be made to the President/Chancellor from the EEO/AA Office, ADA Compliance Office or the ADA Advisory Council without a thorough, objective investigation and opportunity for all involved parties to be heard.

The President/Chancellor will be briefed on key issues and progress made during the investigation. The President/Chancellor will receive the Investigation Report and recommendations from the Equal Opportunity and Affirmative Action Program Office, ADA Compliance Office or ADA Advisory Council. When the decision is announced, any remedies to be implemented will be communicated to the responsible administrators, to the grievant and to the respondent or as otherwise directed by the President/ Chancellor.

Remedies may include an oral or written reprimand, suspension, dismissal, or other action. Personnel rules, collective bargaining agreements, and state/federal law will be consulted. Also, changes in policy or reconsideration of actions may be initiated. This list is by no means exhaustive.

The grievant is protected from retaliation with the same vigor as is applied to the prohibition against discrimination itself.

## Grievance Procedure

- All complaints should be filed in writing, contain the name and address of the person filing it, and

briefly describe the alleged violation(s).

- A complaint should be filed within 90 days after the grievable event or the date on which complainant becomes aware of the alleged violation.
- An investigation, as may be appropriate, shall follow the filing of the complaint. The investigation shall be conducted and, barring extenuating circumstance, concluded within 60 days of filing, by either the ADA compliance coordinator or designee, depending on the nature of the grievance. These rules anticipate informal but thorough investigations, affording an interested person and their representative notice and an opportunity to be heard and to submit evidence relevant to the complaint.
- A written determination as to the validity of the complaint and a description or the resolution shall be issued by either the ADA Coordinator or other designee and a copy will be forwarded to the complainant, no later than 15 working days after its filing.
- The ADA compliance coordinator shall maintain the files and records of Southern University relating to complaints filed.

### **Appeal Procedure**

- Should the grievant desire to appeal the written determination, the appeal should be filed in writing within 15 days of receiving the determination letter.
- The appeal should be addressed to Chancellor, Southern University and A&M College, 3rd floor, J.S. Clark Administration Building, Baton Rouge, Louisiana 70813.
- The appeal should set forth the basis or grounds for the appeal. No new evidence or information will be accepted unless it was not available at the time the matter was under review at the initial stage(s) of the investigation/review.
- A written determination as to the validity of the appeal and a description of the resolution shall be issued by the Chancellor or his designee and a copy will be forwarded to the complainant no later than 15 days after its filing. The determination of the Chancellor or his designee will be final and binding.

### **Document Dissemination and Storage**

Once the investigation process is complete, the grievant and respondent(s) are notified of the outcome. Each party will receive a copy of the report at no charge.

Any report that contains evaluative information will be prepared in a format that allows the information to be masked prior to making it available to any one other than the evaluated employee.

The ADA/504 Compliance Coordinator will maintain all files and records relative to the grievance filed.

## **PROGRAM FOR PERSONS OVER 55**

Any person over the age of 55 years who registers for one or more courses of instruction at a public college or university in this state and who is a resident of this state shall be exempt from the payment of tuition and other registration fees. Such students also will receive a reduction in textbook cost for any required course in which they are enrolled. To receive a reduction in textbook costs, the textbooks must be purchased from a public college or university-operated bookstore.

The tuition exemption and reduction in textbook costs provided in this Section (R.S.17:1807) shall be limited to the extent that there are sufficient funds appropriated by the Louisiana Legislature to reimburse the public college or university granting them.

## **ADMISSION TO ADVANCED STANDING & NON-TRADITIONAL EDUCATIONAL EXPERIENCES**

In order to recognize competence attained through educational experiences other than University instruction, Southern University offers a program of credit by examination. The three methods of examination used are: 1) College Level Examination Program, 2) Advanced Placement of the College Entrance Examination Board, and 3) Southern University Credit Examination. Credit for all forms of advanced standing examinations cannot exceed 30 semester hours and a maximum of 60 semester hours through all types of non-traditional experiences, (i.e., advanced standing, military service, correspon-

dence courses, and extension courses).

### **CREDIT BY EXAMINATION**

Students enrolled at Southern University and prospective students may earn up to 30 semester hours of college credits for acceptable scores made on College Level Examination Program (CLEP) exams, Advanced Placement Program exams, and a limited number of institutionally constructed examinations. Scores on the general examination must be submitted prior to initial enrollment by students who desire CLEP credit for subject examinations.

Students may receive credit only in subjects in which they have not earned academic credit accepted by Southern University. Students may not attempt credit by examination for a course in which a failing grade has been earned or for a basic course in areas in which acceptable college credit for more advanced courses has been obtained.

The College Level Examination Program (CLEP) allows students the opportunity to earn credit in the subject areas listed below. Students are graded on a pass/fail basis and must earn the minimum scores indicated for a passing grade. The grade is not computed in the student's cumulative grade point average, nor does it replace an earned letter grade. Students may not attempt credit by examination more than once in a given course. Credit by examination is available only to enrolled students. Grades are recorded on the student's transcript upon successful completion of the examination.

<b>Southern University General Examinations</b>	<b>Semester Hours Course No.</b>	<b>Minimum Credit Awarded</b>	<b>Scores</b>
Freshman Composition	ENGL 110-111	6	50
Mathematics	MATH 130-131	6	50
History	HIST 114-115	6	50
Humanities		6	50
<b>Subject Examinations</b>			
General Chemistry	CHEM 132-133	6	50
American Government	POLS 200	3	50
American History	HIST 104-105	3-6	4
College Algebra	MATH 130	3	50
Computers & Data Processing	CMPS 100	3	50
Educational Psychology	BHVS 220	3	50
Business Management	MGMT 100	3	50
Introductory Accounting	ACCT 200-20	6	50
Introductory Marketing	MKTG 300	3	50
Introductory Sociology	SOCL 210	3	50
Microbiology	BIOL 230	4	49
Money & Banking	ECON 340	3	49
Statistics	MATH 274	3	50
Trigonometry	MATH 140	3	50

Students are advised to obtain information from the Office of the Registrar on earning CLEP credit in subject areas not listed in this section.

The College Board Advanced Placement Program (APP) gives high school students an opportunity to qualify for a maximum of two courses in each of 16 possible subject areas by obtaining a score of three or higher on APP examinations. Students who have completed these tests should have their scores sent to the registrar.

Students who desire to earn credits by examination should confer with their major advisors or high school counselors if they have not entered college, before applying for permission to take an examination for credit.

Application forms to earn credit by examination are available in the Office of the Registrar. More detailed information about fees, dates, and registration forms for these examinations should be obtained by writing: College Entrance Examination Board, P.O. Box 592, Princeton, NJ, 08541 or Advanced Placement Program, P.O. Box 977-IS, Princeton, NJ, 08541.

Each examination in Southern University's Course Credit Examinations program must be approved in advance by the dean of the college in which the student is registered, the chairman of the department offering the examination, and the dean of the college in which the course is offered. The following conditions apply to Southern University credit examinations:

- Only admitted undergraduate students are eligible for credit by examination.
- Credit earned by examination is recorded without letter grade and is not computed in the overall grade point average.
- Credits may not be earned in courses that students previously failed.
- Students may attempt to earn credit by examination in a particular course only once.
- A fee of \$15 is required for each examination taken for credit.

A copy of the policy and procedures for Credit by Examination at Southern University may be obtained from the Office of the Registrar, Southern University, Baton Rouge, LA 70813.

### **CREDIT FOR MILITARY SERVICE SCHOOL COURSES**

The American Council on Education (ACE) Guide to the Evaluation of Educational Experience in the Armed Services is used in evaluating and awarding credits for military service

- To have service school courses evaluated, service personnel should request an official transcript, sent directly from AARTS/SMART Operations Center to the registrar
- The Military Registry for the U.S. Army, Navy, and Marine Corps is Army/ACE Registry Transcript Service (AARTS) and for Sailor/Marine/ACE Registry Transcript (SMART).
- Air Force personnel desiring credits earned through the Community College of the Air Force (CCAF) should request the CCAF to send an official transcript to the registrar.

The total amount of undergraduate credit which may be awarded for all categories of service school courses, CLEP, and non-collegiate organization courses, is 30 semester hours. Inquiries concerning graduate credit should be directed to the dean of the Graduate School.

### **INDEPENDENT STUDY**

Those students possessing self-discipline and academic excellence as demonstrated by past performance, and by favorable faculty evaluations and recommendations, shall be allowed by means of independent study to pursue subjects not offered in the classroom. Participation in an independent study program requires:

- recommendation by the supervising faculty member,
- minimum overall GPA of 3.0 and no grade less than "B" in any background or prerequisite course,
- approval of the appropriate departmental chair and the academic dean,
- certification by the registrar that the student meets the required academic standards,
- maximum of one course per semester/term for no more than four credit hours,
- no more than nine credit hours during undergraduate tenure, and
- maximum credit hour load includes independent study credit hours.

### **CORRESPONDENCE AND EXTENSION COURSE CREDIT**

Southern University does not offer correspondence work, but will accept a maximum of 30 hours of correspondence or extension credit from accredited institutions. Full-time students at Southern University who plan to take work elsewhere (correspondence, extension, or resident) must obtain approval from the academic dean, the registrar, and the Office of Academic Affairs.



# University Registrar

The Registrar's Office is responsible for securing and maintaining an accurate record of the academic endeavors of students who enroll in the university. It certifies that requirements for graduation have been met by all candidates for graduation in their stated curriculum. The office provides statistical information to faculty and administrators as it relates to student enrollment and academic progress.

The Registrar's Office is responsible for enforcing all policies and procedures listed under sections entitled: Enrollment Privileges and Responsibilities, Baccalaureate Degree Requirements, and University General Education Requirements as listed in the University Catalog.

## TRANSCRIPT REQUESTS

Transcripts will be issued within three days after requests are received. At the end of the semester however, approximately 10 days will be required to post grades and issue transcripts for students who have completed courses and want this work included on their transcripts.

A written or faxed request, along with \$2 in the form of a cashier's check or money order from the student, must be submitted for each transcript. Telephone and Internet on-line requests are not accepted. Written requests should be forwarded to: Southern University, Registrar's Office, P.O. Box 9454, Baton Rouge, Louisiana 70813. Fax requests to (225) 771-5064.

**Student Enrollment Verification Information** (see Regulations Governing Student Records)

To gain access to their academic records, students must submit written requests or present student's permission except:

- To Southern University personnel who have a legitimate educational interest as determined by the University.
- To other educational institutions in which the student seeks to enroll (the student may obtain a copy of the record that was transferred);
- To public agencies as specified in the Act;
- To agencies and offices requesting records in connection with a student's application for financial aid;
- To organizations for use in developing, validating, or administering standardized tests, administering student aid programs, and improving instruction;
- To accrediting agencies;
- To parents of students who are dependents for income tax purposes;
- To appropriate persons in the case of health and safety emergencies, and
- To courts of law in response to court orders of subpoenas.

Requests for access to educational records by any person other than those listed above in the section of "Regulations Governing Student Records" shall be refused, unless the student has submitted a written, dated, and signed waiver to allow access to records. The waiver must specify the records to be released, the reasons for such release, and names of the persons to whom records should be released.

# Student Financial Aid

## SATISFACTORY ACADEMIC PROGRESS (EFFECTIVE FALL 2000)

### Introduction

Financial aid recipients are expected to make reasonable progress as a condition of receiving and continuing to receive student financial aid. Student progress is assessed according to qualitative and quantitative measures. The qualitative measure (grades) is very similar to the Academic Progress standard applied to all SU students. The quantitative measure (number of credit hours successfully completed) is used to monitor progress toward degree completion. When these measures are applied, federal regulations require that the student's entire

academic history is considered. This includes semesters or terms during which the student did not receive student financial aid. In response to requirements governing these programs, the University has developed this policy to monitor and determine satisfactory academic progress. This policy is effective for eligibility beginning Fall 2007 and beyond or until further amended.

## Purpose

The intent of this policy is to 1) ensure that students using the Title IV and State financial aid programs are demonstrating responsible use of public funds in pursuit of their educational goals; and 2) set standards for monitoring all financial aid recipients' course completion rates and cumulative GPA's each year; providing notification to individual students when progress is not met and/or when they have met or exceeded the maximum attempted hour limits allowed.

## Definitions

**Attempted course** - A course which remains on the student's record after the first fourteen days of the term.

**Completed course/earned credit** - A course in which a grade of A, B, C, D, or P was received. (Note: Withdrawal (W) and (NS), no credits, blank grades, incomplete grades (I), audits (AU), and failures (F) and (FN) are not considered "earned credit" for meeting progress requirements).

**Financial aid** - the Federal Title IV programs and state and institutional programs listed below.

- Federal Pell Grant
- Academic Competitiveness Grant (ACG)
- National "SMART" Grant
- Federal Supplemental Educational Opportunity Grant
- Federal Work Study
- Federal Perkins Loan
- Federal Stafford Loan (subsidized and unsubsidized)
- Federal PLUS Loan
- William D. Ford Federal Direct Loan (subsidized and unsubsidized)
- William D. Ford Federal Direct PLUS Loan
- Tuition Opportunity Program for Students (TOPS)
- Louisiana Educational Assistance Program (LEAP)
- Louisiana "Go Grant" Need-Based Assistance Program
- SU Grant Programs
- SU Foundation Programs
- SU Scholarships
- SU Out-of State Fee-Waiver

**Financial aid probation** - A period in which a student who has been identified as not meeting one or more of the standards in this policy may continue to receive financial aid. At the end of the probationary period, a student is expected to meet satisfactory academic progress requirements in order to continue receiving financial aid.

**Financial aid termination** - The point at which a student is no longer eligible to receive financial aid as defined in this policy.

**Incomplete** - A grade of "I" received for an attempted course; no credit will be applied until the course is completed.

**Maximum timeframe** - Time limit set for receipt of financial aid that is specific to a student's program of study. For undergraduate programs, federal law defines this limit as 150% of normal program requirement. This University policy sets specific timeframes for various programs of undergraduate and graduate study.

**Quantitative measure** - Timeframe for the student to complete their program and a minimum number of credits the student must satisfactorily complete at each increment.

**Qualitative** - Measurement of a student's academic standing consistent with the requirement for graduation from their program of study. It is required that students who have attended for a period of two academic years of undergraduate study maintain a 2.0 cumulative grade point average (GPA).

**Satisfactory Academic Progress/satisfactory progress** - Maintaining the required cumulative GPA and completion of courses at a rate that meets the standards defined in this policy.

**Transfer credit** - Course accepted for credit at SU from another institution.

### Authority

The Higher Education Act of 1965 as amended and final regulations set by the United States Department of Education (34CFR668.16) require that institutions of higher education establish reasonable standards of satisfactory academic progress as a condition of continuing eligibility for federal aid programs. Nothing in this policy shall be construed as an exemption from the requirements of any other federal or state agency, or other granting or governing authority that apply to a student or to the financial assistance the student receives, nor does this policy limit the authority of the Director of Financial Aid when taking responsible action to eliminate fraud or abuse in these programs.

### Programs Governed by this Policy

The Federal Pell Grant, Academic Competitiveness Grant, National "SMART" Grant, Federal Supplemental Educational Opportunity Grant, Federal Perkins Loan, Federal Direct and Stafford Loans (includes Federal PLUS loans), Federal Work Study Program, and certain alternative loans for students are governed by this policy.

### Satisfactory Progress Standards

To encourage the completion of degree/certificate programs within a reasonable timeframe and to comply with federal and state requirements, financial aid recipients attending Southern University (SU) must maintain satisfactory academic progress as a condition for receiving financial aid. Satisfactory academic progress requires financial aid recipients to do the following:

1. Meet minimum cumulative grade point averages as listed below;
2. Earn credit for a reasonable number of credit hours towards a degree or certificate, measured incrementally;
3. Complete your degree or certificate within the maximum allowable timeframe;
4. Satisfactorily complete at least 67% of cumulative credit hours attempted; and complete courses at an overall rate which will, once again ensure graduation within the maximum allowable timeframe, measured in total cumulative hours attempted.

Financial aid recipients who do not meet these conditions will lose their financial aid eligibility. Also and unless otherwise stated, a student's academic history (including transfer hours applicable towards a program of study at SUBR and in accordance with the university's Transfer Policy) is considered for purposes of this policy regardless of whether or not the student received financial aid at the time the credit hours were completed.

### Minimum Cumulative Standards

Total Cumulative Hours Attempted	Min. Cum. % Hours Earned	Maintaining Progress	Financial Aid Suspended
<b>Undergraduates:</b>			
Associate Degree			
0 - 95 credit hours	67%	2.00 or greater	0.00 - 1.99
96+ Ineligible for Financial Aid			
Bachelor's Degree			
0 - 29 credit hours	67%	1.51 or greater	0.00 - 1.50
30 - 59 credit hours	67%	1.75 or greater	0.00 - 1.74
60 - 89 credit hours	67%	2.00 or greater	0.00 - 1.99
90 - 195 credit hours	67%	2.00 or greater	0.00 - 1.99
196+ Ineligible for Financial Aid			

Teacher's Certification			
0 - 45 credit hours	67%	2.50 or greater	0.00 - 2.49
46+ Ineligible for Financial Aid			

**Graduates:**

Master's Degree			
0 - 58 credit hours	67%	3.00 or greater	0.00 - 2.99
59+ Ineligible for Financial Aid			

Doctoral Degree			
0 - 60 credit hours	67%	3.00 or greater	0.00 - 2.99
61+ Ineligible for Financial Aid			

**>Cumulative Grade Point Average (GPA) used for purposes of this policy is calculated by Southern University in accordance with established policy and procedure.**

**Maximum Attempted Hours:**

Attempted hours are all hours appearing in the transcript which include “W”, “P”, “S”, “U”, “NC”, “FN”, “NS”, and “I” grades. Remedial, repeated, transfer, suspended, and scholastic amnesty hours are also counted as pursued hours.

- **Undergraduate Students** - Students who are enrolled in an eligible undergraduate curriculum must earn the required attempted/earned hour ratio and GPA outlined previously within this policy. These students may receive financial aid for a maximum of 195 attempted hours.

Students who are enrolled in an eligible associate degree curriculum must earn the required attempted/earned hours ratio and GPA as outlined previously within this policy. These students may receive financial aid for a maximum of 95 attempted hours.

- **Additional Degrees** - Students seeking additional degrees beyond the first undergraduate level are limited as follows:

Bachelors.....	45 credit hours beyond prior degree
Masters.....	58 credit hours beyond prior degree
Teacher's Certification ...	45 credit hours beyond prior degree

- **Double Majors** - Students seeking double majors must complete their degree program for the primary major within the limits set for that major. Additional hours will not be allowed for double majors. The student, may however, petition the appeals committee for consideration.

Federal aid cannot be paid while a student is ineligible due to unsatisfactory academic progress. Until an appeal or reinstatement is approved, no federal aid will be credited to a student's account.

**Minimum Cumulative Credit Hours Completion**

Financial aid recipients must satisfactorily complete at least 67% of cumulative credit hours attempted. Grades of A, B, C, D, or P are considered satisfactory. All other grades such as F, FN, NS, W, or I are considered unsatisfactory.

A student who is unable to complete his or her degree program within the applicable timeline may appeal for an additional period of financial aid eligibility in order to complete the degree program. Special consideration will be given to a student whose attempted hours include developmental courses.

**Ineligible students**

Undergraduate students must be officially admitted to the university as degree seeking or teacher certification. Generally, students who are officially admitted and degree seeking must attempt at least part-time to be fully considered for Title IV aid. Students attending less than half time must be evaluated for financial aid in the Office of Student Financial Aid for any possible awards.

Graduate students must have a degree objective and be admitted into a Graduate program.

**NOTE:** Students who have been counseled regarding acceptance into a graduate program and are enrolled in required prerequisites but are not yet classified as a graduate student may receive a Stafford loan for **one consecutive year** based on undergraduate loan limits. To be eligible for this exception, the student must be taking classes that are a prerequisite for admission. If the student is only taking courses to raise their GPA in order to be admitted, he/she would not qualify for loans under this exceptions.

### Academic Clemency

Academic Clemency, which is granted in accordance with University policy, shall be considered when determining a student's satisfactory progress. However, it is the student's responsibility to provide written notification to Appeals Committee regarding the granting of academic clemency.

### Monitoring Intervals

Effective Fall 2007, Satisfactory academic progress shall be monitored annually, at the conclusion of each spring semester for the preceding summer/fall/spring semesters or at the time the student is applying for financial aid if a current satisfactory progress assessment is not available. If a student is academically suspended between monitoring periods, the student's eligibility for financial aid will also be suspended and must be reassessed at the time the student is readmitted to the University.

### Notification of Financial Aid Termination

The Office of Student Financial Aid will send a termination letter to any student who is no longer eligible for financial aid, due to their failure to meet one or more of the provisions outlined herein. It is the responsibility of the student to maintain current addresses with the Office of the Registrar. Furthermore, it is the responsibility of the student to stay informed of the University's SAP standards and to monitor their progress.

### Appeals

Students who have been denied financial aid based upon the provisions outlined in this policy have the right to appeal. To initiate a satisfactory academic progress appeal, the student must complete a Satisfactory Academic Progress Appeal Form and submit it along with all required supporting documentation to the University's Appeals Committee.

### Reasons for Appeal

Under general circumstances a student may appeal his/her financial aid termination for several reasons. All appeals will be considered for the following reasons.

- Change of grades
- Death or serious illness of an immediate family member
- Medical illness or injury to the student or a dependent child (attending physicians' affidavit is required).
- Other causes (i.e. natural disaster, acts of God, or other traumatic life-altering event, etc).
- Exceeding Total Attempted Hours (i.e. change of major or length of academic program).

Appeals must be in writing and submitted within the timelines established by the University's Appeals Committee. All documents and appeal application must be mailed together via certified mail with return receipt requested. Faxes, late, or separated documents will not be accepted.

Decisions concerning SAP appeals are voted on by a committee. **The decision of the committee is final and will not be overturned by ANY University administrative official.** Generally, the committee will notify student of their decision by email within 20 business days of the date your appeal is documented and received by the committee.

### Reinstatement of Financial Aid Eligibility

Students who do not maintain satisfactory academic progress shall lose their eligibility for financial aid and may only regain eligibility by eliminating all satisfactory progress deficiencies at their own

expense or by appealing their satisfactory academic progress status.

### **Returning and Transfer Students**

Returning and transfer students must be in good academic standing and must have earned 67% of all hours attempted to be eligible to receive financial aid. Academic progress will be monitored using the **Minimum Cumulative Grade Point Average** chart previously outlined in this policy.

#### **IMPORTANT:** (Please Note)

Students applying for financial assistance must be in compliance with the Financial Aid Satisfactory Academic Progress Policy (SAP) as a condition of initial or continuing eligibility.

- Financial aid will be denied to students who fail to maintain progress under the policy.
- At the end of each spring term, a formal review will be made to ensure compliance with the grade point average, maximum time limit, and minimum hour requirements of this policy. First-time aid applicants who have previously attended SU must also be in compliance with the policy even though aid has not been received during periods of prior attendance.
- Students who fail to meet the Satisfactory Academic Progress standards will be notified by letter of their deficiency.
- It is the responsibility of students who have been notified of a satisfactory progress deficiency to document any corrections to information used to determine their status.
- Any aid released to a student who is subsequently determined to be ineligible to have received funds under the rules for SAP may be rescinded and the student may be billed for all funds disbursed.

### **Promulgation**

This policy will be included in University catalog and other appropriate University publications. The policy, or a summary of its primary features, will be provided to each financial aid recipient.

### **Amendment to the Policy**

This policy will be amended whenever applicable federal or state laws and regulations are changed

### **Implementation Date**

Implementation of new Satisfactory Academic Progress (SAP) Policy to be effective for eligibility determinations for Fall 2007 and beyond, unless otherwise amended.



# Enrollment Privileges and Responsibilities

## REGISTRATION

All students are required to register in accordance with registration guidelines established for the current term as listed in the University Calendar (see page vi, academic calendar) and in the current schedule of classes bulletin.

Registration after the deadlines must be by special permission. The late registration fee is \$50. A student may add courses for credit, make section changes, or drop courses with the approval of the appropriate advisor and dean within the period provided in the University Calendar.

### Early Registration

Telephone registration dates are printed in the University Calendar (see page vi, academic calendar). A \$30 penalty will be assessed to each continuing student who fails to participate in early registration. No fees will be assessed for schedule changes during the early registration or schedule adjustment periods.

### Interinstitutional Program with Regional Institutions (Cross-Registration)

Students enrolled at Southern University at Baton Rouge may take courses each semester at Louisiana State University in Baton Rouge, Southeastern Louisiana University, Southern University at New Orleans, and Baton Rouge Community College.

Students who wish to participate in the interinstitutional program must have approval of their college dean. Additional enrollment fees may be required of part-time students.

Students participating in the cross-registration program cannot cross-register for more than two courses per semester or summer term, unless they are enrolled in a formal cooperative program.

Exceptions may be made only on the recommendation of the dean of the college. Violation of this policy by students will result in acceptance of not more than eight semester hours of such credit toward the degree in a given semester or summer term.

Details may be obtained from the Registrar's Office.

## COURSE LOAD

### Maximum and Minimum Semester Hour Load

A schedule of 12 to 19 semester hours is considered a full-time semester load, with 15 hours being recommended as a minimum. Students who have earned a minimum 3.0 grade point average (GPA) on all work pursued during the previous semester may enroll for a maximum of 21 semester hours of credit on approval of their academic dean and 22 semester hours on recommendation of the dean, and approval by the executive vice chancellor and provost.

Four semester hours is the minimum full-time load for an eight-week summer term. In no case will students be permitted to register for more than 12 semester hours of credit during an eight-week summer term. The maximum number of credit hours allowed for transfer during the summer shall not exceed the equivalent number of credit hours allowed for students enrolled at Southern University at Baton Rouge. For a single eight-week summer term, the maximum transfer is 12 credit hours. The maximum course load for a summer session (maymester, eight-week and four-week summer terms) is 18 credit hours.

## Course Load for Students on Academic Probation

Students on initial academic probation or extended academic probation, or who are returning to the University after a period of absence caused by academic suspension, will be allowed to pursue a maximum of 13 credit hours during either the fall or spring semester, seven credit hours during an eight-week summer term, and 10 credit hours during a full summer session.

## Privileged Seniors

A graduating senior who has a minimum 3.0 GPA on all work pursued and who lacks no more than seven semester hours (four in a summer term) for the completion of the baccalaureate degree may enroll in graduate level courses for graduate credit. In the SU Graduate School, the student may have counted toward a graduate degree a maximum of six semester hours of graduate credits accumulated as an undergraduate. Prior approval of the Dean of the Graduate School is required.

## Full-Time Students

Undergraduates must be enrolled in at least 12 semester hours of scheduled work during a semester or at least four semester hours during an eight-week summer term to be considered a full-time student. A student enrolled in cooperative education is considered a full-time student for administrative purposes only.

## Part-Time Students

Undergraduates enrolled in fewer than 12 semester hours during a semester or fewer than four hours during an eight-week summer term or combination of eight-week and four-week sessions are considered part-time.

## CLASS ATTENDANCE

Students are required to attend classes regularly and punctually, as a minimum academic obligation. Failure to observe this policy may seriously jeopardize a student's academic standing. Tardiness and excused absences should be brought to the attention of the instructor(s) by the student. The following class attendance policies apply:

- A student required to be absent from class because of illness or other unavoidable circumstances should promptly report the reasons to the instructor and, if required, present excuses. The instructor should make clear to the student that excuses explain absences, but do not remove them.
- Students are required to adhere to attendance policies established by their colleges and stated by the instructors on course syllabi.
- Excuses for participation in University-sponsored activities will be initiated by the sponsoring unit and approved by the college dean and the Office of Academic Affairs.
- Students who wish to be absent from classes for reasons not covered by these regulations must apply to their department head for a leave of absence. All excuses or explanations must be submitted in writing to the student's department head within three school days after the student returns to classes.

## Adding Courses for Credit

Courses may be added for credit through the last day of late registration. Approval from the student's advisor is required. The student will be held responsible for all courses appearing on schedules. The student should check mid-term grade reports and drop or request the registrar to clear from the record, by the deadline, courses or grades that appear in error.

## Section Changes

A student may change the section of a course being offered in a semester or summer session in the same manner and time frame as that provided for adding courses. A justifiable reason for change of course section must be given at the time of request.

## Dropping Courses

Courses dropped prior to the 14th class day will not appear on the student's record. For courses dropped after the 14th class day and within the time limit specified in the University Academic Calendar, the student will receive the grade of "W."

## SCHOLARSHIP STANDARDS

Students of Southern University are governed by the following regulations regarding scholarship standards:

## Scholastic Probation, Suspension, and Readmission Regulations

### Probation

- A student will be placed on academic probation when the student's cumulative grade point average falls below 1.51. The cumulative grade point average is computed as follows: total quality points divided by total hours pursued (including transfer credits), except for repeated courses.
- A student will remain on probation until a cumulative grade point average of 1.51 or above is achieved if the student earns a 2.0 grade point average for each semester, Maymester, or summer term during the period of probation. Failure to earn a cumulative grade point average of 1.51 or a semester, maymester, or summer term average of 2.0 while on probation will result in suspension (see below).
- Students with cumulative grade point averages between 1.51 and 1.99 will receive an academic warning that they are below the 2.0 minimum cumulative GPA required for graduation.
- When a cumulative grade point average of 2.0 or above is achieved, the student is in academic good standing.

### Suspension

- Students on academic probation will be suspended for one semester at the conclusion of the fall or spring or summer terms in which the cumulative grade point average is below 1.51 and the semester or term grade point average is less than 2.0.
- A student suspended at the end of the spring semester may enroll for the following maymester and/or summer term without appeal. If the student raises his or her cumulative grade point average to 1.51 or above by the end of the maymester or the summer term, the suspension is removed. This student may enroll for the fall semester without appeal. If the student does not raise his or her cumulative grade point average to 1.51 at the end of Maymester or summer term, then the suspension is in effect for the fall semester.
- First-time freshmen will not be suspended prior to the completion of two semesters of enrollment.
- The University does not accept credits for courses taken while on suspension.
- Students with four suspensions will be dismissed permanently.

### Appeal Suspension

- Students with three or fewer suspensions may appeal to the University Appeals Committee for a waiver of the suspension period if documentation can be provided for extenuating circumstances. Extenuating circumstances are primarily serious illness/injury, death in the immediate family, natural disaster or traumatic event that interrupts the student's academic progress. In the case of death of a family member, a certificate of death and an affidavit attesting to the relationship of the deceased to the student and the residence of the deceased must be provided. In the case of serious illness/injury, a physician's affidavit is required. Students who cannot document proof of extenuating circumstances showing direct cause cannot apply for a waiver of the suspension period.
- The letter of appeal and documentation must be submitted to the Office of Academic Affairs as soon as possible, but no later than seven days prior to the first day of class.
- A fourth academic suspension results in expulsion from the University. Permanent expulsion is not subject to appeal.
- The decision of the University Appeals Committee is final and binding.

## **WITHDRAWAL FROM THE UNIVERSITY**

Students who must discontinue enrollment prior to the end of a semester or summer term, must complete a withdrawal form and have it validated by the Office of the Registrar. Grading will be done on the following basis:

- When students withdraw on or before the 14th class day of any semester or on or before the seventh class day during a summer session, they will not receive any grades.
- When students withdraw between the 14th class day of any semester or the 7th day during a summer session and the last two calendar weeks prior to the first day of final examinations or the last calendar week prior to the first day of final examinations respectively, they will receive a grade of "W." Total hours withdrawn will be considered hours attempted but not earned, and may affect financial aid eligibility.
- Students who fail to officially withdraw from the university will receive a grade of "F" in all courses. Further, they will forfeit their right to a statement of honorable dismissal, thereby jeopardizing their reentrance into the University or their transfer to another accredited institution.
- Withdrawal from the University cannot be completed via the telephone or internet. In order to withdraw from the University, the student must complete the process in person through the Registrar's Office.

## **ADMINISTRATIVE WITHDRAWAL**

In case students leave the university without officially withdrawing through the Office of the Registrar and have documented extenuating circumstances (such as, but not limited to, serious illness or military deployment), then they may request in writing an administrative withdrawal. Their request, with documentation, should come to the Executive Vice Chancellor and Provost, who, if he/she approves the request, will submit a signed withdrawal form and documentation to the Office of the Registrar.

## **ACADEMIC CLEMENCY**

Academic clemency provides an opportunity for persons to apply for a new undergraduate academic beginning at Southern University by disregarding their prior academic record. This policy permits students to begin their college studies again with no credits attempted and no quality points earned. Academic clemency may be awarded to a student only once and is applicable only to students enrolled and credits earned at Southern University. Academic clemency may be referred to as academic bankruptcy, academic amnesty, academic renewal, or academic pardon at other institutions.

The following criteria and conditions apply to a student eligible for academic clemency:

- Prior to applying for admission, at least five years must have elapsed since the end of the semester in which the applicant was last in attendance for credit at any college or university.
- The applicants must apply no later than the end of the first semester following reentry and must provide written justification why they should be granted academic clemency.
- The staff in the Office of Academic Affairs will review the application and make recommendations to the vice chancellor.
- If an applicant is granted academic clemency, no prior academic credits may be used as part of a degree program; however, the prior record, including probation and suspension, remains a visible part of the student's transcript.

If academic clemency is granted, the date of academic clemency is entered on the transcript along with a statement prohibiting use by Southern University of previously earned credits and quality points to meet degree requirements, to compute the grade point average, or to determine graduation status.

The student will have status as an entering freshman, and will begin a new record showing no credits attempted and no quality points earned.

A student demonstrating competency in a given area may be allowed advanced standing (without credit) or a waiver of requirements just as any entering freshman, but the student will not be allowed credit by examination for courses lost in academic clemency. Academic clemency does not affect accumulated financial aid history. Accumulated semester and award limits include all semesters of enrollment at any college or university.

**Note:** Many undergraduate professional curricula, graduate schools, and professional schools compute the undergraduate grade point average over all hours attempted when considering applications for admissions. Therefore, courses and grades placed in abeyance for academic clemency purposes may be used for some future evaluation.

## **AUDITING A COURSE**

To audit courses, applicants must be eligible to enter the University as regular students, as visiting students, or as special students. Students must obtain permission of the instructor, the chairman of the department in which the course is taught, and the dean of the college in which they are enrolled. Students may not audit a laboratory-type or activity course. Students will be assessed tuition fees for courses audited. Credit will not be granted for courses audited. An audit may not be changed to credit after completing the course. The semester course load is inclusive of audited courses.

## **STUDENT ACADEMIC ADVISEMENT**

Students are responsible for knowing their chosen curricula and for adhering to all published regulations of the University.

Full- or part-time students are assigned academic advisors by the associate vice chancellor of University College or by the chair of their department when they are transferred to a senior college. Academic advisors provide information and guidance to students about their academic programs and approve the student's schedule of classes (registration forms) throughout the entire period of attendance at the University.

## **LIMITED CLASS ENROLLMENT**

Limiting enrollment is the responsibility of the deans, directors, or department heads of areas involved. Approval of the executive vice chancellor and provost in each instance is required.

## **STUDENT CONDUCT**

Administrative regulations governing the conduct of students enrolled at Southern University are contained in the Code of Student Conduct. Included in this publication are rules and regulations governing student rights and responsibilities, a description of the University Judicial System, disciplinary sanctions, penalties, violations, and types of offenses.

A copy of the Code of Student Conduct may be obtained from the Office for Student Affairs.

## **Academic Grievances**

If a student has a grievance that cannot be settled in the ordinary course of immediate post-class discussion, the following procedures are suggested:

- A special conference between the faculty member and the student should be arranged.
- Discussion before the faculty member's department head.
- Grievance presented in writing to the faculty member's dean.
- Discussion before the faculty member's dean.
- As a final option, the matter should be brought to the Office of Academic Affairs in writing.

## **Academic Dishonesty**

The University defines academic dishonesty in two categories—premeditated and unpremeditated fraudulent behavior. Premeditated fraud is defined as conscious, pre-planned, deliberate cheating with

materials prepared in advance. It may consist of:

- collaborating during an examination without authority;
- stealing, buying, or otherwise obtaining all or part of an examination;
- using specially prepared materials;
- selling or giving away all or part of an examination or examination information;
- bribing another person to obtain an examination or information;
- substituting for another student, or permitting another person to substitute for oneself to take an examination;
- submitting as one's own any work prepared totally or in part by another;
- selling, giving, or otherwise supplying materials to another student for use in fulfilling academic requirements (e.g., term paper, course project, etc.);
- breaking and/or entering a building or office for the purpose of obtaining examinations (administered or unadministered);
- changing, or being an accessory to the changing, of grades in a grade book, on an examination paper, on other work for which a grade is given, on a "drop slip" or other official academic records of the University which involve grades;
- proposing and/or entering into an arrangement with an instructor to receive a reduced grade in a course, on an examination or any other assigned work in lieu of being charged with academic dishonesty under the Code of Student Conduct;
- committing plagiarism—failing to identify sources, published or unpublished, copyrighted or uncopyrighted, from which information was taken;
- acquiring answers for any assigned work or examination from an unauthorized source;
- falsifying references;
- listing sources in a bibliography not used in the academic assignment;
- inventing data or source information for research or other academic endeavors;
- forging the signature of a faculty member or any academic officer on an academic document;
- altering or being an accessory to altering contents of an academic document (i.e. registration, pre-registration forms, add/drop forms, transcripts, fee exemption forms, etc.);

Unpremeditated fraud is defined as cheating without the benefit of materials prepared in advance. It may consist of:

- copying from another student's examination paper,
- allowing another student to copy from an examination paper, or
- using textbook(s) or materials brought to class but not authorized for use during an examination.

Sanctions and the appeals process may be found in the Code of Student Conduct.

## **FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT**

In accordance with the Family Educational Rights and Privacy Act of 1974 (P.L. 93-380, Section 513, amending the General Education Provisions Act, Section 438) students enrolled at Southern University are hereby informed of their right of access to their official records as described in the Act. For additional information, contact the Office of the Registrar.

The Family Educational Rights and Privacy Act defines the term "directory information" as the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended. The University will make public "directory information" about each student, even though information from all these categories is not made public in every listing.

Students who do not wish to have any or all of such “directory information” made public without prior consent must notify the Office of the Registrar in a signed and dated statement specifying items that are not to be published. This notice must be received by the Office of the Registrar by the end of the registration period of the semester or summer term of first enrollment, or after an absence and re-enrollment, and by the end of each fall registration period thereafter.

## **RECORDS OF STUDENTS**

Final grades for each semester are officially recorded and filed in the Office of the Registrar. Grade reports are submitted to students, parents or guardians, and deans at the end of each semester.

Students may obtain certified statements of their academic records from the Office of the Registrar upon written request.

Transcripts will be issued within two days after requests are received. At the end of the semester, however, approximately 10 days will be required to post grades and issue transcripts for students who have completed courses and wish this work included on their transcripts.

A written request, along with \$2 in the form of a cashier’s check or money order from the student must be submitted for each transcript.

Transcripts cannot be released until all indebtedness to the University is paid in full.

## **REGULATIONS GOVERNING STUDENT RECORDS**

Campuses comprising the Southern University System shall comply fully with regulations of Section 438, Privacy Rights of Parents and Students, of the General Education Provisions Act, which ensures students access to their educational records maintained by the University, and which prohibits the release of personally identifiable information except as specified by the law. Each chancellor shall inform students of the rights accorded them by law.

To gain access to their academic records, students must submit written requests or present themselves to the Office of the Registrar.

Personally identifiable information from educational records cannot be released without the student’s permission except:

- To Southern University personnel who have a legitimate educational interest as determined by the University
- To other educational institutions in which the student seeks to enroll (the student may obtain a copy of the record that was transferred)
- To public agencies as specified in the Act
- To agencies and offices requesting records in connection with a student’s application for financial aid
- To organizations for use in developing, validating, or administering standardized tests, administering student aid programs, and improving instruction
- To accrediting agencies
- To parents of students who are dependents for income tax purposes
- To appropriate persons in the case of health and safety emergencies
- To courts of law in response to court orders or subpoenas

Policies governing disciplinary procedures of the University are included in the Code of Student Conduct manual, available in the Office of the Vice Chancellor for Student Affairs.

Requests for access to educational records by any person other than those listed above in the section of “Regulations Governing Student Records” shall be refused unless the student has submitted a written, dated, and signed waiver to allow access to the records. The waiver must specify the records to be released, the reasons for such release, and names of the persons to whom records should be released.

## **SYSTEM OF GRADING**

### **LETTER GRADES**

The University uses the following system of grading: "A"-exceptional; "B"-above average; "C"-average; "D"-below average; "F"-failure; "FN"-failure no-show; "I"-incomplete; "W"-withdrawal.

The grade of "P" is used on the permanent records of undergraduate students to indicate satisfactory completion of non-traditional courses, undergraduate departmental comprehensive examinations, writing proficiency tests, and computer literacy examinations, or to indicate that students have successfully earned credit. "AU" will be given for auditing a course; however, no credit will be given.

Credit for any course in which a student has received a grade of "F" can be obtained only by repeating the course and earning a passing grade.

### **QUALITY POINT SYSTEM**

Quality point allotments are four points per semester credit hour for an "A," three points for a "B," two points for a "C," one point for a "D," and 0 points for an "F" or "FN."

### **REPEAT/DELETE**

Students may repeat a course that he/she has failed or for which a higher grade is desired by completing a Repeat/Delete Form in the Office of the Registrar by the 14th class day. Students may repeat the same course a maximum of three (3) times, and the grade that will be calculated in the student's grade point average will be the higher or highest grade earned. Students may not fail a course at Southern and execute the Repeat/Delete Form for a course taken at another institution. The effective date for this policy is Maymester 2006.

### **DEVELOPMENTAL EDUCATION COURSES**

A student enrolled in developmental education courses shall be eligible to earn grades of "A," "B," "C," "D," and "F." However, students who earn grades of "D" or "F" in developmental education courses shall be required to repeat these courses.

The hours and quality points earned in developmental education courses shall be included in the computation of the semester grade point average. However, the hours and quality points related to such courses shall not be applicable toward meeting requirements for a degree by an institution within the Southern University System.

### **DEFINITION OF GRADE POINT AVERAGE (GPA)**

#### **Semester Average**

The semester grade point average is the total number of quality points earned divided by the total number of semester credit hours carried by the student. The grades of "A," "B," "C," "D," "E," and "FN" are included in the computation of the semester grade point average. Grades of "AU," "P," "I," and "W" are not included in the computation of the semester grade point average.

#### **Cumulative Average**

Results using two methods to calculate cumulative GPAs are recorded on transcripts. Method I: Cumulative GPA is total quality points divided by total hours pursued. Hours pursued equal the total number of hours attempted. Method I is used to determine eligibility for holding student offices and graduation honors. Method II: Cumulative GPA is total quality points divided by total hours pursued, except for repeated courses. This method is used to determine financial aid and graduation eligibility.

When a course is repeated at Southern University or at another college or university, hours pursued, hours earned, and quality points of previous attempt(s) are excluded in the calculation of cumulative aver-

ages. Grades of "A," "B," "C," "D," "F," and "FN" are included in the computation of cumulative averages; grades of "AU," "P," "I," and "W" are excluded. All courses pursued and grades earned at Southern University or transferred to Southern University shall become and remain a part of the permanent record.

## **ASSIGNMENT OF GRADES**

It is the right and responsibility of the instructor to determine and assign grades for each student in a course except those students who withdraw before the final date for withdrawing with a "W." Individual instructors are expected to assign grades equitably and consistently, in accordance with standards established by the faculties of the various colleges and schools. There is no "University curve" or other table of numerical equivalents of letter grades to which a faculty member must adhere.

In extraordinary circumstances that make it impossible for instructors to fulfill the responsibility of determining course grades, the administrative officer having immediate jurisdiction (usually the department chairperson) shall assign the grades.

At the beginning of each semester, faculty members are required to provide students with course syllabi outlining the general components and approximate value from which the final grade will be determined. An instructor should be able to explain a student's standing in the course. Upon completion of the course, the student may request a review of examinations, an explanation of the final grade, and the method by which it was determined. This review is to include an accounting for any unreturned work. Faculty members are responsible for returning to students on a timely basis the work (examinations, term papers, assignments, etc.) completed throughout the semester. Unreturned student work (final examinations, term papers, class projects, etc.) must be kept for at least one regular semester following the completion of the course.

Grading must be based on work that is assigned and evaluated equitably and fairly, with no special consideration given to individual students unless justified by disability or excused absences. Individual students shall not, for example, be allowed to take on "extra credit" projects, spend extra hours in laboratories, or present themselves for reexamination or special examination unless the same options are available to the entire class on the same terms.

Grades must not be used as coercive or punitive measures reflective of a student's behavior, attitude, personal philosophy, or other personal characteristics except as those qualities relate directly to the student's level of mastery of the materials of the course.

## **INCOMPLETE GRADES**

Work, which is of passing quality but because of extenuating circumstances is not complete, may be graded "I"-Incomplete. Students must initiate an incomplete grade request and must secure appropriate approval of the excuse by the instructor, department head and dean of the college in which the course is taken. If an excuse is not received prior to issuing a final grade, the instructor is to consider the delinquent work to be of failing quality and an "I" grade should not be given. Incomplete grades are removed only by completion of the course work, not by repeating the course. A grade of "I" becomes a grade of "F" if not removed by the end of the first six weeks of the following semester, if the student is in residence; or within one year, if the student is not in residence. The grade of "I" shall not be calculated in the cumulative grade-point average for retention purposes. Graduating seniors are not permitted to receive "I" grades. The Office of the Registrar will distribute official incomplete grade sheets at the end of the first six week of each regular academic semester.

## **CHANGE OF GRADES**

Grades that have been submitted to the Office of the Registrar can be changed only by submitting the official Change of Grade Form certifying that an error was made in recording the grade. Materials submitted after the official completion of a course by means of the final examination or otherwise may not be used as a means of continuing the course and thus changing a previously submitted grade.

The instructor must submit the proper "Change of Grade" form and file the form with the Registrar's Office. Any such change of grade must be initiated by the instructor on the required form available in the Office

of the Registrar. Such petitions require the approval of the department head and the dean of the instructor's college before the Registrar will make changes on the student's record. Any grade change must be received in the Office of the Registrar no later than 60 calendar days immediately following the beginning of classes in the semester succeeding the one in which the grade was given or omitted. For a summer term, the changes are due in the Office of the Registrar no later than 60 calendar days immediately following the beginning of classes in the succeeding Fall semester. If a student is not enrolled in the succeeding semester, then the grade change is due 60 calendar days following the beginning of classes in the next regular semester.

## **HONOR ROLL**

Any student completing 12 or more hours and who earns a minimum 3.0 GPA in any semester on all hours pursued shall be placed on the academic honor roll for that semester.

## **RIGHTS, DUTIES AND RESPONSIBILITIES OF STUDENTS**

(Article X, By-Laws of The Southern University and A & M College Board of Supervisors)

The Southern University Board of Supervisors subscribes to the principle that the freedom to teach and freedom to learn are inseparable facets of academic freedom and that the freedom to learn depends upon appropriate opportunities and conditions in the classroom, on the campus, and in the larger community. The following provisions are essential for freedom to learn.

### **Section 1. In the Classroom.**

The University is committed to the principle that students in the classroom should be encouraged to exercise free discussion, inquiry and expression relative to the subject matter of the discipline involved, and that student performance should be evaluated solely on an academic basis, not on opinion or conduct in matters unrelated to academic standards.

### **Section 2. Student Records.**

The Chancellor of the University, with the advice and assistance of appropriate members of the administrative staff and the faculty shall formulate and issue regulations pertaining to the keeping of student records in accordance with law and appropriate respect for privacy. These regulations shall provide for maintaining separate academic and disciplinary records and shall clearly indicate the kinds of confidentiality which should be respected as regards the records and the conditions of access to them.

Administrative staff and faculty members shall respect the confidentiality of information about students, which they acquire in the course of their work.

### **Section 3. Student Affairs.**

The following standards shall be observed regarding the freedom of students:

#### **A. Freedom of Association.**

Students bring to the campus a variety of interests previously acquired and develop many new interests as members of the academic community. They shall be free to organize and join associations to promote their common interests in keeping with the law and University policies.

#### **B. Freedom of inquiry and Expression.**

Students and student organizations shall be free to examine and discuss all questions of interest to them. They shall be free to support causes by orderly means, which do not disrupt the regular and essential operations of the institution. At the same time, students have the responsibility to make clear that, in their public expressions, they and their organizations speak only for themselves.

#### **C. Student Participation in University Governance.**

As constituents of the academic community, students shall be given the opportunity to participate in the formulation of institutional policy, particularly in the area of student affairs. Students shall be represented on the Board of Supervisors in accordance with applicable State law and Board of Supervisors rule(s) governing appointment of said representative. (4-23-99)

#### D. Student Publications/Media

Student publications and electronic media are valuable aids in establishing and maintaining an atmosphere of free and responsible discussion and in providing an environment which fosters intellectual exploration on campus. Students shall be given the opportunity to publicize activities and events relevant to the university community through the official campus student newspaper, student yearbook, student electronic media, and the newsletters of officially registered student organizations. In their roles as student journalists, students are ensured the maximum freedom of expression. However, the policy should be clearly communicated that these publications and electronic media serve as forums for student expression and as laboratories for training. Students are expected to abide by the commonly accepted legal and ethical standards of responsible journalism, especially as it relates to nudity, obscene language, statements or comments that can be deemed libelous and/or disruptive of the educational process. Student publications and other media shall be governed by the canons of responsible journalism. (1-7-00)

### Section 4. Procedural Standards in Disciplinary Proceedings

The Southern University System has the duty and the corollary disciplinary powers to protect its education purpose through the setting of standards of scholarship and conduct for students. The administration of discipline shall guarantee due process to an accused student.

The Governance committee of the Board of Supervisors shall develop students' grievance procedures for the Southern University System.



# Baccalaureate Degree Requirements

## MINIMUM REQUIREMENTS FOR BACCALAUREATE DEGREES

Degree requirements are measured in terms of qualitative and quantitative standards. While the University has minimum requirements for graduation, the requirements for individual colleges and schools may be higher. The total number of credit hours and the quality points required vary according to curricula.

Students graduating from Southern University with a baccalaureate degree must comply with certification requirements for graduation as follows:

1. completion of a minimum of 124 semester hours excluding remedial and repeated courses;
2. attainment of a minimum overall GPA of 2.00, a minimum GPA of 2.00 in the courses taken in the college or school of the major, and a minimum GPA of 2.00 in all courses pursued in the major area, except for those courses in which grades of "P" or "W" are recorded;
3. attainment of a "C" grade in each course in the major area presented to fulfill credit hour requirements in the major, and attainment of minimum grade of "C" in English 110 and 111;
4. completion of the University General Education Requirements (see page 51);
5. completion of the Service Learning Requirement (see page 53);
6. completion of the African-American Experience Requirements (see page 53);
7. completion of the curricular requirements in the college/school and department of the major as listed in the appropriate section of the catalog;
8. passage of the Departmental Comprehensive Examination;
9. passage of the Writing Proficiency Test;
10. meet the University's residence requirement; and
11. meet all financial obligations to the University.

Honorary and earned degrees are conferred only by approval of the Southern University Board of Supervisors upon recommendation of the president, chancellor, Academic Council, and the faculty of the appropriate college or school of the University.

## PROCEDURAL REQUIREMENTS FOR OBTAINING A DIPLOMA

During the semester prior to the one in which graduation is anticipated, candidates must request by formal application that the dean of their college or school evaluate their academic records for compliance with degree requirements. Each college establishes its own degree requirements, which are listed in that college's section of this catalog. A formal application for a degree, originating in the department of the student's major, must be filed in the college or school in which the applicant is pursuing a degree. After the application has been approved by the student's dean, it must be presented to the Office of the Registrar for review and final certification. The candidate's name will appear as recorded in the official University records.

Students who apply for graduation in a given semester but fail to meet the graduation requirements must reapply for graduation in a subsequent semester. Students who enroll during Maymester or either of the summer terms are eligible to receive diplomas at the summer commencement exercises.

A student who is not enrolled in courses for credit at Southern University or any other college/university during the intended semester of graduation must enroll for "Graduation Only (Credit, 0 hours)"

and pay the appropriate registration fees.

The Writing Proficiency Examination must be completed in a semester prior to the one in which graduation is anticipated.

Candidates must pay a non-refundable graduation fee. All financial indebtedness to the University must be cleared at least 72 hours prior to commencement.

Candidates must notify their respective deans if they do not plan to participate in commencement exercises.

### **REQUIREMENTS FOR A SECOND BACCALAUREATE DEGREE**

Candidates for a second baccalaureate degree from the University shall be required to repeat the minimum residence requirement of one semester and one summer term, earn a minimum of 30 additional semester hours of college credit in residence, maintain a minimum GPA of 2.00 on the additional hours pursued, and meet the general and specific qualitative and quantitative requirements for the degree.

### **BONA FIDE MINOR SEQUENCE**

Students may pursue minor sequences in those academic departments that indicate approved minor sequences in this University catalog. A minimum of 50 percent of the semester hours of credit required for the minor sequence must be completed at Southern University, Baton Rouge. Students wishing to pursue minors should confer with their academic deans for guidance and approval.

### **MULTIPLE MAJORS**

The multiple majors program meets the requirements of two majors and involves two distinct fields.

A student pursuing multiple majors will receive one diploma which will indicate the two degrees earned, and certification of the multiple majors will be indicated on the student's transcript.

A student pursuing multiple majors must meet the entrance requirements for each major as set by the University. The student pursuing multiple majors must have completed a minimum of 40 semester hours of credit at Southern University, Baton Rouge, must have a minimum cumulative GPA of 3.00, and must receive favorable recommendations from the academic advisors in each area and the approval by each chairperson and dean. An approved course of study shall be planned in consultation with each academic advisor and shall be presented to each chairperson and dean for approval. A copy of this approved course of study shall be transmitted to the registrar.

In order to qualify for both degrees, the student must complete the University-stated requirements for each degree and must complete a minimum of 10 semesters, or equivalent, as a full-time student. The last 30 semester hours of credit must be earned in residence. Under extraordinary circumstances, a student may obtain permission of both academic deans to complete six of the last 30 semester hours of course work toward the degrees at another institution.

Unless otherwise indicated in a particular program, the student may use the same courses to meet specified requirements for multiple majors, as well as for the general education requirements. Prior approval must be obtained from each dean.

### **COMBINATION DEGREE PROGRAM**

Upon recommendation of the appropriate dean(s), a student may receive both an associate and a baccalaureate degree at commencement if that student meets the minimum requirements for both degrees.

### **CATALOG GOVERNING DEGREE REQUIREMENTS**

Students must meet the curricular requirements for a degree outlined in an appropriate issue of the Southern University Undergraduate Catalog. Students are required to know degree requirements. They may complete work for graduation according to requirements in the catalog of the year in which they enter, or those of any catalog in force during their enrollment at this University, providing their residence enrollment is continuous and does not exceed ten years. Students whose enrollment is interrupted for at least two consecutive semesters, will be subject to the catalog in effect at the time of their reen-

try or any subsequent catalog in force during their enrollment at this University.

Transferring from one institution to another is not regarded in itself as an interruption of enrollment. The interval between withdrawal from the previous institution, if any, and enrollment at this University, is the controlling factor.

The student is responsible for obtaining in writing from the academic advisor with approval of the department chair, college dean, and executive vice chancellor and provost, any waiver or other deviation from the approved curriculum and from requirements for the degree sought.

## **CHANGES IN BACCALAUREATE DEGREE REQUIREMENTS**

The University reserves the right to add or delete degree requirements and course offerings. Students in continuous full-time attendance, with no change in curriculum major, are entitled to graduate under the degree provisions of the catalog in effect at the time of their initial entry at Southern University. Students may elect any issue of the catalog in force during their residence at Southern University upon approval of the academic dean, with the following exceptions:

- A catalog more than 10 years old shall not be used.
- Students in continuous attendance as part-time students with no change in curriculum, shall satisfy the degree requirements listed in the catalog in effect at the time of entrance provided graduation occurs no later than 10 years after initial enrollment. If graduation occurs after the tenth year, the catalog in force will be determined with the approval of the concerned academic dean.
- Students in continuous full-time attendance who change their major curriculum shall satisfy the degree requirements listed in the catalog in force at the time the change in curriculum becomes effective. Upon the recommendation of the academic dean, a subsequent catalog may be used.
- A student whose enrollment is interrupted for two or more consecutive semesters shall satisfy the degree requirements listed in the catalog in force at the time of reentry. The failure to attend summer school or absence due to military service or to illness attested to by a physician will not be considered an interruption.
- If progress toward a degree is interrupted for two or more consecutive semesters, credit earned prior to the interruption must be evaluated at the time of readmission by the academic advisor and chairperson to determine the applicability of credits earned during the previous period of enrollment to the current curricular requirements. Final approval by the dean of the college is required.

## **STANDARDIZED AND PROFICIENCY TESTING POLICIES**

### **Departmental Comprehensive**

Each student will be required to make a passing score on a comprehensive examination in the major area as a part of the requirements for graduation.

Beginning with those students who enter any post-secondary institution in the fall of 1987, all such students will be required to take competency examinations in certain general education core courses and/or in subject matter and other competencies related to the general education core in its entirety or in part.

### **Writing Proficiency**

All students are required to pass the University Writing Proficiency Examination before graduation.

All students shall be advised of writing proficiency expectations at the beginning of each course and shall be advised that a minimum of 10 percent of their grade will be based on demonstrated writing skills for that course.

A degree-granting department may require a writing seminar for its majors, upon presentation of a detailed syllabus for the same and approval by the executive vice chancellor and provost through the college, school, or division dean or director. Where approved and required, the student must pass the course with a grade of "C" or better before graduation. Departments may be requested by the executive vice chancellor and provost to require such courses upon review of writing performances of students in the area.

### **Academic Policy on Articulation of the Writing Proficiency Examination Requirement with Other Regionally-Accredited Degree-Granting Colleges and Universities**

Southern University accepts and articulates satisfactory completion of a Writing Proficiency Examination from other regionally accredited, degree-granting colleges and universities as fulfilling its writing proficiency requirement. Appropriate documentation will be required to effect such articulation, in the form of one or more of the following, as applicable:

- A passing grade (P of P/F or C and above for letter grade) for a writing proficiency examination recorded on an official transcript.
- A course/examination description and copy of the writing proficiency requirement policy statement from the other institution.
- When such an examination at another institution is not separately registered, but given as part of another course, taken from a standardized test or otherwise not listed or readily identifiable on a transcript, an official letter of certification and explanation from the Registrar, Chief Academic Officer or other appropriate administrator will be required.

### **RESIDENCE REQUIREMENTS FOR THE BACCALAUREATE DEGREE**

A candidate for the baccalaureate degree must complete the last 30 semester hours of studies in residence at Southern University.

Exceptions to this residency requirement are made in the case of a candidate who has completed a three-year, pre-professional curriculum at Southern University and who subsequently completes, in an accredited professional school, the academic requirements for the baccalaureate degree. A candidate may obtain the permission of the academic dean to complete six of the last 30 semester hours of work toward the degree at another institution. For other exceptions, see graduation requirements for the College of Education.

### **DEGREES WITH DISTINCTION**

#### **Latin Honors**

Baccalaureate degrees are awarded with the following honors: Cum Laude if the cumulative grade point average is a minimum 3.4 but less than 3.7; Magna Cum Laude if the cumulative grade point average is a minimum 3.7 but less than 3.86; and Summa Cum Laude if the cumulative grade point average is 3.86 or above.

No grade of "F" should appear on the transcript if the student is to receive Latin honors. Transfer students are eligible for Latin honors provided they satisfy all of the following criteria:

- No grade of "F" should appear either on the transferred transcript or the Southern University transcript.
- The average is to be computed on all hours pursued.
- At least 40 percent of the student's work must be earned at Southern University, Baton Rouge.
- All work pursued at Southern University, New Orleans, and at Southern University, Shreveport-Bossier City, should be evaluated as if pursued at Southern University, Baton Rouge.

The University applauds high academic achievement. During honors day services and at commencement, students who have earned overall 3.00 accumulative grade point averages or better are held up for public acclaim. Students whose performance is superior are recognized with Latin honors. Students whose academic achievement is praiseworthy, but who do not qualify for Latin honors are recognized by the designation, "With Honors."

## **Other Honors**

Students who have a minimum GPA of 3.00 but less than 3.4 and who meet the above requirements will be recognized as honor students at commencement.

## **SUBSTITUTION OF COURSES**

With approval of the appropriate dean, substitutions may be made for required courses when not offered at the time that a student has reached the semester or year level of the requirement. The substitute course must be at or above the academic level of the required course, and must be in the same field as the required course or a related field. The request, containing the student's justification and signature along with approval by the academic dean must be filed prior to enrolling in such classes.

## **Addendum to Course Substitution**

Students may not substitute a course for a required major course that the student has failed here at Southern. The effective date of this policy is Spring 2006.

## **STUDENT RESPONSIBILITY**

Each student is personally responsible for completing all requirements established for his/her degree by the University, college, and department. It is the student's responsibility to learn what these requirements are. A student's advisor or counselor may not assume that responsibility. Any substitution, waiver, or exemption from any established departmental or college requirement or academic standard may be made only with the recommendation of the student's dean and approval of the executive vice chancellor and provost.



# Southern University

## General Education Program

### of Excellence (GEPE)

At the heart of the General Education Program of Excellence (GEPE) at Southern University-Baton Rouge is the definition of its audience - an educated person - who has knowledge, the ability to think, the ability to learn, and the ability to use language. A Southern University-educated person is one who has undergone a process of learning that results in an enhanced mental capability to function effectively in familiar and novel situations in one's personal and intellectual life. Southern University's GEPE provides students with general knowledge and reasoning abilities that when integrated with the specialized knowledge and specific skills from their professional/technical study in academic majors comprise a quality undergraduate education.

The GEPE contains core and foundation courses that are consistent with the University's educational philosophy and is purposeful, coherent, engaging, and rigorous. The knowledge and reasoning abilities are taught as part of the core and foundation courses as well as part of courses in academic fields of specialization. The GEPE incorporates essential knowledge, cognitive abilities, an understanding of values and ethics, and it enhances students' intellectual growth. Additionally, the GEPE draws students into new areas of intellectual experience, expands their cultural and global awareness and sensibilities, and prepares them to make enlightened and informed judgments outside, of as well as within their academic specialty. Students must complete between 50-56 credits of general education requirements contained within the core and foundation courses prior to graduation from Southern University-Baton Rouge.

College-level competencies and learning outcomes that characterize a Southern University-educated person are identified within the GEPE as institutional-level objectives that address specific outcomes of every graduate in undergraduate programs, regardless of discipline. All students entering Southern University must complete a general education component in the following major areas:

Areas/Courses	Semester Hours	Areas/Courses	Semester Hours
Freshman Seminar	2	Mathematical and Science Reasoning	
Communication Skills	6	(To be met by taking required courses for majors; to include laboratory courses)	
• English Composition		• Mathematics	6
Cultural Literacy		• Natural Sciences	10
• History	6	Wellness	
• Foreign Language	3-6	• Wellness	2
• Literature	3	Ethical Behavior and Values	
• Humanities	6	• Philosophy	3
Art		Information Technology Literacy	
Music		(Requirements to be determined by established policy in academic departments)	
• Social & Political Systems	3	• Computer Literacy	
		• Service Learning	1-3
		<b>Total</b>	<b>50-56</b> (over a two year period)

The institutional-level outcomes for the GEPE shown in Table 1 illustrate the knowledgebase that each Southern University educated person will develop prior to graduation.

**Table 1. Institutional-Level Outcomes (LO) of the General Education Program of Excellence**

LO 1:	<b>Critical Thinking</b>	Graduates will reason abstractly and think critically and integrate new information with previously acquired information to solve novel complex problems and learn independently.
LO 2:	<b>Communication Skills</b>	Graduates will communicate effectively using skills that apply to English in general as well as to specific English language modalities at the college level of competence.
LO 3:	<b>Cultural Literacy</b>	Graduates will demonstrate knowledge of various cultures by studying the past and present through language, literature, cultural artifacts, and social and political systems.
LO 4:	<b>Mathematical and Science Reasoning</b>	Graduates will apply quantitative and qualitative approaches to mathematical and/or scientific concepts.
LO 5:	<b>Wellness</b>	Graduates will identify and demonstrate comprehension of human wellness and the importance of physical activities in developing a healthy mind and body.
LO 6:	<b>Ethical Behavior and Values</b>	Graduates will identify and demonstrate appreciation of ethical issues implicit in their personal behavior and those underlying the operation of social and political systems as well as in the field of research.
LO 7:	<b>Information Technology Literacy</b>	Graduates will demonstrate information technology skills that enable them to use computers, software applications, databases, and other technologies to achieve a wide variety of academic, work-related, and personal goals.

The **core courses** must be completed by students during the freshman year. These core courses as indicated on the GEPE pyramid on page 52, represent **22 credits**. Students can complete the foundation courses in their freshman, sophomore, or junior years. The **foundation courses** represent **33-35 credits**. Students must complete between **50-56 credits of general education requirements** contained within the core and foundation courses prior to graduation from Southern University-Baton Rouge. The **capstone** which requires **3-12 credits** to complete is a course where general education and the major field of study converge. **The reconfiguration of the general education curriculum with the addition of the capstone requires 53-58 credits for completion.**

# General Education Program of Excellence (GEPE) Pyramid



**Graduation**

**Capstone  
(3-12 credits)**

- ✦ *Senior Project*
- ✦ *Internship*
- ✦ *Student Teaching*
- ✦ *Research*

**Major Courses  
(124 credit  
minimum)**

**Foundation Courses  
(33-35 credits)**

- ✦ *BIOL 104 & 105, 106 & 107; or BIOL 108 & 109; or CHEM 128, 108; or PHYS 101/102; or as required by department*
- ✦ *ENGL 203 or ENGL 110*
- ✦ *Foreign Language 200 & 201*
- ✦ *ARTS 110 or 130 or 200*
- ✦ *CMPS 110+*
- ✦ *ECON 205 or GEOG 221 or POLS 210 or PSYCH 315 or PSYCH 350 or SOCL 324 or PHIL 200 or 210 or 220 or 230*
- ✦ *SVLR 100-400*

**Core Courses  
(22 credits)**

- ✦ *FRMN 110 & 111*
- ✦ *ENGL 110 & 111*
- ✦ *MATH 130, 131, or 135, 140, or 264, 265*
- ✦ *HIST 104, 105, or 114, 115*
- ✦ *Wellness (to be developed)*

## GENERAL EDUCATION REQUIREMENT – FOREIGN LANGUAGES

If a student's major requires six or more hours of language, **these hours must be taken in the SAME language, otherwise the student will not receive credit for those foreign language courses (exception: Chinese, Arabic, and other less commonly taught languages).**

## THE AFRICAN-AMERICAN EXPERIENCE

Students who were first-time freshmen at any post-secondary institution on or after August 1, 1991, are required to pass a three-credit hour course in African-American studies. This requirement may be satisfied by selecting one of several courses offered in the humanities, literature, or history. Students majoring in one of the above areas cannot satisfy the requirement by completing a course in the same area.

Students may be able to use the African-American studies course as a free elective or as a substitution for a required course in humanities, literature, or history, thereby avoiding the need for adding hours to their course of study, with approval of the advisor, department head, and college dean. Courses that may satisfy the African-American experience requirement include: ARTS 440, African-American Art; ENGL 203, Introduction to African-American Literature; ENGL 313, African-American Literature; ENGL 407, African-American Literature of the South; ENGL 413, Modern African-American Prose Fiction; ENGL 415, Multicultural American Literature; ENGL 485, The black Writer; HIST 311, African American Literature History; HIST 399, The City and Minorities; HIST 401, History of African Americans; HIST 419, History of African-American Education in American; HIST 486, African Americans in the Twentieth Century; HIST 496, African- American Women in America-Colonial Period to Reconstruction; HIST 497, African-American Women in America-Reconstruction to the Present; MUSC 243, Louisiana Ethnic Music; MUSC 352, Music of Black Americans; MUSC 353, History of Jazz; HUMN 366, Race Relations; HUMN 403, The Black Experience; MCOM 331, African-Americans in the Media; PHIL 426, African-American Philosophy and Religion; SOCW 250, African-Americans in U.S. Policy History; SOCW 450, African-American Perspectives of Human Behavior; and SPTH 399, African-American Arts Seminar.

## SERVICE LEARNING

Students who were first-time freshmen at any post-secondary institution on or after August 1, 1993, are required to complete a minimum of 60 clock hours of service learning as one of the requirements for graduation. Those students 25 years of age or older who completed high school or who earned high school equivalency seven or more years prior to admission and international students may have this requirement waived with approval of the appropriate academic dean. The service learning requirement may not be waived for any other reason except certifiable disability of such nature that community service projects would jeopardize the welfare of the parties involved. Such waivers must be approved by the Director of the Center for Service Learning and filed in the Office of the Registrar.

In order to satisfy the 60-hour service learning requirement, students may choose to enroll in academic courses designed for that purpose. Such courses must contain as a major component a predetermined number of community service hours as a minimum course requirement. Internships, field experiences and co-op experiences cannot be substituted for the service learning requirement. A maximum of three semester hours of credit in courses designed to satisfy this requirement may be used as free electives.

Service learning courses are: 100, 200, and 300, Service Learning (credit, 1 hour, each); 400, Service Learning (credit, 3 hours), 000, Service Learning (non-credit, 0 hours); and International Service Learning 405 (credit, 3-6 hours).

# Student Fees and Expenses

Fees and expenses are subject to change without prior notice.

## REGULAR SESSION

All full-time undergraduate students enrolled in the University will pay \$1,853 in fees for the Fall and Spring Semester. Full-time graduate students will pay \$1,862. Included in the payment for undergraduate students are the general registration fee, building use fee, health fee, breakage fee, insurance fee, technology fee, and student assessed fees. There is an additional fee of \$30 for all international students.

## RESIDENT FRESHMAN ORIENTATION FEE

### Student Fees

	Undergraduate		Graduate	
	Campus	Off-Campus Centers	Campus	Off-Campus Centers
0 Hours	\$713	\$312	\$234	\$234
1 Hour	837	471	408	408
2 Hours	856	490	427	427
3 Hours	875	509	446	446
4 Hours	1,054	688	633	633
5 Hours	1,073	707	652	652
6 Hours	1,092	726	671	671
7 Hours	1,347	981	1,081	1,081
8 Hours	1,366	1,000	1,100	1,100
9 Hours	1,385	1,019	1,805	1,378
10 Hours	1,581	1,215	1,824	1,397
11 Hours	1,600	1,234	1,843	1,416
12 Hours	1,853	1,426	1,862	1,435

### Fees for Out-of-State Students (All States)

Undergraduates	\$2,896
Graduate	\$2,583

## RESIDENTIAL HOUSING POLICY

Campus housing is in accordance with policies of the Southern University Board of Supervisors. Undergraduate students are encouraged to live in campus residence halls, as long as space is available.

Residential housing programs are an integral part of the University's educational mission. Its goals are to provide a safe living environment, and to promote individual growth and learning through community development activities and special programming sponsored by residence halls. Students benefit educationally and socially from an on-campus living experience.

**Fall Semester**

**Full-Time Undergraduates**

NOTE: Board charges are for the seven-day plan.

**Two per room/air**

Males-Jones Hall  
Females-Boley Hall

General Fee	\$ 1,853.00
Cable/Internet Fees	.130.00
Room	.984.00
Board (7 day)	.975.00
Key Deposit	.10.00
Mail Box Rental	.12.00
<b>Total</b>	<b>\$ 3,964.00</b>

**Two per room/air**

Females Washington Hall  
Males-Carroll, Moore and Satterwhite Halls

General Fee	\$ 1,853.00
Cable/Internet Fees	.130.00
Room	.999.00
Board	.975.00
Key Deposit	.10.00
Mail Box Rental	.12.00
<b>Total</b>	<b>\$ 3,979.00</b>

**Two per room/air**

Females-Totty, Shade Halls

General Fee	\$ 1,853.00
Cable/Internet Fees	.130.00
Room	1,417.00
Board	.975.00
Key Deposit	.10.00
Mail Box Rental	.12.00
<b>Total</b>	<b>\$ 4,397.00</b>

**Two per room/air**

Males-Grandison & Bradford Halls

General Fee	\$ 1,853.00
Cable/Internet Fees	.130.00
Room	1,035.00
Board (7 day)	.975.00
Key Deposit	.10.00
Mail Box Rental	.12.00
<b>Total</b>	<b>\$ 4,015.00</b>

**Three per room/air**

Males-Reed and White Halls

General Fee	\$ 1,853.00
Cable/Internet Fees	.130.00
Room	.879.00
Board (7 day)	.975.00
Key Deposit	.10.00
Mail Box Rental	.12.00
<b>Total</b>	<b>\$ 3,859.00</b>

**Three per room/air**

Males-U.S. Jones Hall

General Fee	\$ 1,853.00
Cable/Internet Fees	.130.00
Room	1,587.00
Board (7 day)	.975.00
Key Deposit	.10.00
Mail Box Rental	.12.00
<b>Total</b>	<b>\$ 4,567.00</b>

**REGISTRATION REFUND POLICY**

**REFUNDS TO STUDENTS RESIGNING FROM THE UNIVERSITY**

The General Fee, which includes students assessed fees and non-resident fees, is refundable in accordance with the following schedule when a student resigns from the University after completing the registration process:

**Fall and Spring Semesters**

- Before classes begin . . . . .90% refund
- First day of class through the seventeenth day of class . . . . .75% refund
- Eighteenth day of class through the twenty-fourth day of class . . . . .50% refund
- Twenty-fifth day of class to the end of the semester . . . . .No refund

**Regular Summer Session (Eight Weeks)**

- Before classes begin. . . . .90% refund
- First day of class through the seventh day of class . . . . .75% refund
- Eighth day of class through the twelfth day of class . . . . .50% refund
- Thirteenth day of class to the end of the semester . . . . .No refund

**First and Second Summer Session (Four Weeks)**

- Before classes begin. . . . .90% refund
- First day of class through the fourth day of class . . . . .75% refund
- Fifth day of class through the sixth day of class . . . . .50% refund
- Seventh day of class to the end of the semester . . . . .No refund

**Maymester (Three Weeks)**

- Before classes begin. . . . .90% refund
- First day of class through the third day of class . . . . .75% refund
- Fourth day of class through the fifth day of class . . . . .50% refund
- Sixth day of class to the end of the semester . . . . .No refund

student insurance, parking fees, breakage fees, late registration fees, and student ID fees are non-refundable.

**STUDENTS DROPPING COURSES**

Refunds will be computed in accordance with the above schedule when a student's course load is reduced such that the status changes to part-time. No refund will be made on athletics, building use, health, student facilities extension, student union, recreation, student insurance, technology fee, parking, breakage, late registration, student ID, academic enhancement fees, or other specially designated fees.

**REFUNDS OF ROOM RENT, ROOM DEPOSIT, KEY DEPOSIT AND MEAL TICKET****Fall, Spring, and Regular Summer Sessions**

If a student officially withdraws from the University, refund of room rent will be made on the following basis:

- Before the fourth full week of classes—the unexpended portion of the rent . . . . .75 percent
- After the fourth full week of classes to the end of the semester—the unexpended portion of the rent . . . . .50 percent

**Maymester, First, and Second Summer Sessions**

- Before the second full week of classes—the unexpended portion of the rent . . . . .75 percent
- After the second full week of classes to the end of the semester—the unexpended portion of the rent . . . . .50 percent

Refunds of room rent are not given to students who vacate the residence halls without officially withdrawing from the University, or to individuals who are removed for disciplinary reasons.

Room deposit refunds are made following graduation or the presentation of proof that the student is no longer in residence during a regularly scheduled semester (i.e., Fall or Spring). Only that portion of the deposit in excess of any housing charges will be refunded.

Key deposit refunds are made to students by use of a key card credit voucher. Students who live in the residence halls shall present this voucher at registration to obtain a credit on their account. Students who no longer live in the residence halls or graduating students must secure a validated key card voucher from the Housing Office, and present it to the Bursar's Office for a cash refund.

The unused portion of the meal ticket will be refunded upon official withdrawal from the University or for other authorized reasons.

After one year all outstanding student deposit balances generated from room deposits, key deposits and similar deposits, shall revert or be transferred to the System Revenue Fund Operating balance. This action shall be taken after applying the credits to any outstanding student debt or accounts receivable due the University.

**CONTINUING AND EXTENDED PROFESSIONAL EDUCATION**

In cases where a student is enrolled in courses which are canceled due to insufficient enrollees or other reasons, the student shall be entitled to a full refund of all fees applicable to those courses. In all other instances the regular refund policy shall apply.

**RETURN OF TITLE IV FEDERAL FINANCIAL AID**

The University determines the refunds due students who receive federal financial aid in accordance with the

Higher Education Amendments of 1998. 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 withdrawal from the University. If a student withdraws from the University, the University will 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 more assistance than he/she earns, the unearned funds must be returned to the Department of Education or the applicable lender. 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.

If it is determined that a portion of the financial aid received by the student is unearned, the University shall return the University's portion to the Department of Education or the applicable lender. The student is responsible for returning any remaining unearned funds. Any funds that the student is required to return to the federal programs are considered an overpayment. The student must either repay the amount in full or make satisfactory payment arrangements with the Department of Education to repay the amount. If the student fails to repay, or make payment arrangements, to repay an overpayment, the student will lose his/her eligibility to receive future federal financial aids at any institution.

### **PRIORITY DISTRIBUTION OF REFUNDS FOR UNIVERSITY LOANS**

The University makes loans to its students in the form of accounts receivables and/or deferred payments as a substitute for cash, in order to satisfy the costs of registration. Any of these loans which are still due for a current (or past) semester, that have not been paid at the time of a student's withdrawal, will be reduced as a first priority by the amount any refund credit due to a student. This is necessary since the actual cash has not been received by the University from the students.

### **MISCELLANEOUS FEES REFUND POLICY**

The following fees are non-refundable:

- General Application Fee • Vehicle Registration Fee • Deferred Payment Fee

### **PROCEDURES**

<b>STUDENT</b>	Withdraws from the University by going to the Registrar's Office and completing required forms.
<b>RESIDENTIAL HOUSING</b>	On-campus students, upon official check-out from the residence hall (students must remove all belongings and return key to residence hall office), must submit withdrawal slip, billing statement, meal card, and key card to the Southern University Residential Housing Department. NOTE: Off-campus students do not require the signature of the Director of Residential Housing.
<b>REGISTRAR'S OFFICE</b>	After student secures all the necessary signatures, the Registrar's office processes the withdrawal form and the student is issued a copy. Forwards a copy of the withdrawal form to the Residential Housing Department and to the Comptroller's (Bursar's) Office.
<b>RESIDENTIAL HOUSING</b>	Computes refund due to student for room and board after verification of documents. Transmits all documents to the Comptroller's Office.
<b>BURSAR'S OFFICE</b>	Receives documents from Residential Housing and calculates the total amount of refund due student including housing refunds (for on-campus students), tuition, and other fees for all students. Transmits document to the Office of Student Financial Aid.
<b>FINANCIAL AID OFFICE</b>	Receives documents from the Bursar's Office and proceeds to execute the refund in accordance with Title IV refund guidelines. Prepares departmental invoice to return funds to lender, if necessary. Also provides necessary accounting procedure to ensure that all Title IV funds are credited properly to student account and transmits all documentation in support thereof to the Bursar's Office, for a check to be written to lender or student.
<b>BURSAR'S OFFICE</b>	Receives documents from the Financial Aid Office and proceeds to execute the documents for refund through the Comptroller's Office.
<b>COMPTROLLER'S OFFICE</b>	Processes vouchers and releases check.

# Student Affairs

The Division for Student Affairs provides student services outside the classroom. To complement and support the University's academic mission, the Division for Student Affairs offers many services, activities, and programs that enhance the cultural, social, emotional, physical, civic, moral, and ethical development of its students.

The nine major areas that provide student services in a number of student-related fields, include Career Services, University Counseling Center which includes Disabled Student Services, Food Service, Health Services, Intramural Sports and Recreation, Residential Housing, Smith-Brown Memorial Union which includes Student Programs, Student Life, and Student Media Services. A director, under the supervision of the vice chancellor heads each department/ office for Student Affairs.

These departments and offices are responsible for formulating, coordinating, planning, and implementing student services as well as providing a conducive environment for living and learning outside the classroom.

The division is committed to helping students develop values, leadership skills and ethical standards through programming, activities, and formal and informal interactions. Some of the major activities include: Homecoming, Springfest, Freshman Parent Orientation, Spring and Fall Career Fairs, Intramural Sports Teams, Health Fairs, Student Leadership Institute, Motivational Speaker Series, and the Vice Chancellor's Roundtable.

## OFFICE OF RECRUITMENT AND ADMISSIONS

**Location:** Suite 1080, Harris Hall

**Office Hours:** 8 a.m. to 5 p.m. Monday through Friday

**Telephone:** (225) 771-2430

A new undergraduate student's first official contact with the University is often through the Office of Recruitment and Admissions. This unit is responsible for recruiting and admitting undergraduate students to the University. Responsibilities include the development of effective school relations programs with high schools and community colleges, recruitment of prospective freshmen and undergraduate transfer students, evaluation of academic credit being transferred to the University, the admission of resident and nonresident students to the University, and providing orientation information about the University's important scheduled events. A detailed description of recruitment and admission to the University and procedures can be found in the Admission Policies section of this publication.



## **OFFICE OF STUDENT LIFE**

**Location:** 2nd Floor J. S. Clark Hall Annex

**Office Hours:** 8 a.m. to 5 p.m. Monday through Friday

**Telephone:** (225) 771-5280

The Office of Student Life has the primary responsibility for the behavioral discipline of students attending Southern University. The Student Judicial System is administered and maintained by the Office of Student Life.

Other responsibilities include maintaining, updating, and distributing the Code of Student Conduct Manual, informing students of procedures and the judicial process.

The primary goal of the office is to regulate, maintain, and protect the welfare of students and to ensure that appropriate penalties are imposed when violations of the code of student conduct occur.

## **FOOD SERVICE**

**Location:** Mayberry Annex

**Office Hours:** 8 a.m. to 5 p.m. Monday through Friday

**Telephone:** (225) 771-2363

The Food Service Department provides students a balanced diet and three meals per day. All students living in University residence halls, and some students living off campus, participate in the University meal plan. Students living on campus must purchase a seven-day meal card.

Breakfast, lunch, and dinner are served in Dunn Hall Cafeteria and in the Oak Room of E.N. Mayberry Dining Hall, Monday through Friday. Through the use of the Board meal card system, students may choose the most convenient cafeteria for either meal on any of these days.

## **CAREER SERVICES**

**Location:** 2nd Floor Clark Hall Annex

**Office Hours:** 8 a.m. to 5 p.m. Monday through Friday

**Telephone:** (225) 771-2200

The Office of Career Services assists students and graduates in identifying their individual capabilities, interests, skills, and acquired knowledge for meaningful vocational opportunities beginning with their freshman year. The office provides students, beginning at the sophomore year, with opportunities for internships, cooperative (co-op) education jobs, and summer employment. Students are permitted to work full-time and obtain course credit while on co-op assignments.

## **STUDENT HEALTH SERVICES**

**Location:** Baranco-Hill Student Health Center

**Office Hours:** 8 a.m. to 5 p.m. Monday through Friday

**Telephone:** (225) 771-4770 / Fax (225) 771-6225

Student Health Services is an ambulatory health care facility which provides care for routine medical problems. More complex problems are referred to local hospitals and/or specialists. Ophthalmological problems, dental problems, and x rays are referred to community agencies. Transportation expenses are the responsibility of the student.

Students with chronic or extraordinary medical problems should have their private physicians send information and special instructions to Student Health Services. If the condition requires close, continual medical supervision, the student's private physician should make a referral to a local private physician for care during the period of enrollment.

Routine prescriptions and over-the-counter medications are available free of charge. Medications for chronic illness are stocked in limited amounts to assist students during acute exacerbations. The pharmacy cannot provide students with their daily or monthly supplies of medication for chronic illness; (i.e. asthma, allergies, diabetes, high blood pressure, etc).

The center is staffed by physicians, registered nurses, licensed practical nurses, a pharmacist, insurance coordinator, and a secretary.

### **Student Health Insurance**

All students (full-time or part-time) who register at the University and the Law Center are automatically enrolled in a Student Injury and Sickness Insurance Health Insurance Plan. The insurance is mandatory for all enrolled students, and the premium is added to their tuition billing. The plan, which includes life and accidental death and dismemberment benefits, is a supplement to using the resources of the Student Health Center (SHC). Students must use the resources of the SHC first, where treatment will be administered or a referral issued. A referral from the SHC is required for outside care. Exceptions to obtaining a referral from the SHC for outside care are outlined in the Student Health Insurance Brochure. Expenses incurred for medical treatment rendered outside of the SHC for which no prior approval or referral is obtained are excluded from coverage. An insurance claim form, along with the referral, must be submitted to the insurance claims office for outside care.

The student injury and sickness insurance plan, which is a PRIMARY insurance policy, is in force only when a student is officially enrolled at the University or the Law Center. Eligible students who do enroll may also insure their dependents. The premium for Dependent coverage is paid directly to the insurance company.

### **OFFICE OF RESIDENTIAL LIFE**

**Location:** 2nd Floor Dunn Hall

**Office Hours:** 8 a.m. to 5 p.m. Monday through Friday

**Telephone:** (225) 771-3590

University housing is provided for approximately 1,000 freshmen and 2,000 upperclass students. Students who live in residence halls must participate in the University food service plan.

Campus housing accommodations are generally designed to house two students in a room. During periods of low occupancy, students may obtain approval to live alone in a double accommodation at the rate for a single person. Students may occupy residence halls one day prior to the applicable registration period.

A refund of room rent is made in accordance with current University refund policies. Refunds are not given to students who vacate residence halls without officially withdrawing from the University, nor to individuals who are removed for disciplinary reasons.

In order to reserve campus housing, an application should be submitted to: Southern University Residential Life Department, P.O. Box 9460, Baton Rouge, LA 70813-2036, along with a room deposit of \$50 on or before May 1 for fall semester applicants. This deposit is refunded following graduation or the presentation of proof that the student is no longer in residence during a regularly scheduled semester (i.e., fall or spring). Only that portion of the deposit in excess of any housing charges will be refunded.

Students are financially responsible for room rent once a key has been accepted. The key deposit of \$10, which is assessed during each registration period, is returned in the form of a credit when the key is returned at the end of each semester or summer term.

Since the University is not responsible for losses due to theft, fire, wind, or water, students residing in University housing are encouraged to insure personal property. Residents may purchase such insurance at nominal costs through companies providing this service. Information and applications may be obtained from the housing office.

Residence halls open and close according to published University opening and closing dates.

The University reserves the right as necessary for room inspection and termination of occupancy for just cause.

### **SMITH-BROWN MEMORIAL UNION**

**Location:** 2nd Floor Smith-Brown Memorial Union

**Office Hours:** 8 a.m. to 5 p.m. Monday through Friday

**Telephone:** (225) 771-2608

Smith-Brown Memorial Union is a multifaceted facility that serves as the community center for the entire University. The union is an integral and vital part of the educational process, sharing the University's goals of intellectual and personal growth for its students.

Through varied programming, the union supplements the academic experiences, contributing to the total development of students. The spacious and modern structure houses meeting rooms, a barber and beauty shop, ball-

room, telephone center, concession center, several recreational areas, and a food court. In addition, the union houses a branch of the U. S. Post Office, the campus mail room, and a computer lab.

Two electronic communications boards are located in the Union lobby area to provide students with daily information on current news, events, and campus activities. Copy machines are also available to Union patrons.

## OFFICE OF INTRAMURAL SPORTS

**Location:** J.B. Moore Hall

**Office Hours:** 8 a.m. to 6 p.m. Monday through Friday

**Telephone:** (225) 771-3212 or (225) 771-2009

Intramural sports provide non-compulsory, recreational and fitness activities for students, faculty, and staff at Southern University. The program serves as a laboratory for recreation and physical education majors who desire experience in athletic coaching, officiating, and tournament organization.

Intramural sports leagues are organized in flag football, volleyball, and basketball. Other activities include fitness, weight lifting, swimming, golf, track, bowling, 3-on-3 basketball, quiet games, Fitness Week, body building, aerobics, walk-a-thon, and a power-lifting contest. State-of-the-art hydraulic and computerized exercise equipment is available for fitness and conditioning.

Sports league teams are ranked state, regionally and nationally in men's and women's flag football and basketball.

## STUDENT PROGRAMS OFFICE

**Location:** 2nd Floor Smith-Brown Memorial Union

**Office Hours:** 8 a.m. to 5 p.m. Monday through Friday

**Telephone:** (225) 771-2940

The Student Programs Office coordinates co-curricular events and programs on campus and maintains a record of all registered student organizations. Programs for international students are also coordinated through this office. The office provides assistance to international students in meeting various immigration requirements throughout their academic stay at the University. Available are more than 150 clubs, organizations, special interest groups, fraternities and sororities, and student publications, including:

### Governmental

Association for Women Students  
Men's Federation  
Student Government Association

### Academic Greek Letters (Honors)

Alpha Chi (Interdisciplinary)  
Phi Alpha (Social Work)  
Alpha Kappa Delta (Sociology)  
Alpha Kappa Mu (Interdisciplinary)  
Alpha Mu Gamma (Foreign Languages)  
Alpha Tau Alpha (Agricultural Education)  
Beta Beta Beta (Biological Sciences)  
Beta Kappa Chi (Health Research)  
Eta Kappa Mu (Engineering)  
Iota Phi Beta (Education)  
Kappa Delta Epsilon (Education)  
Kappa Delta Kappa (Education)  
Kappa Delta Pi (Education)  
Kappa Kappa Psi (Band)  
Kappa Phi Kappa (Education)  
Lambda Iota Tau (Literature)  
Mu Phi Epsilon (Music)  
Phi Beta Lambda (Vocational Education)  
Phi Mu Alpha (Music)  
Phi Omega Pi (Business Education)  
Phi Sigma (Biological Sciences)  
Phi Sigma Iota (Foreign Languages)

Phi Upsilon Omicron (Family and Consumer Sciences)  
Pi Gamma Mu (Social Sciences)  
Pi Mu Epsilon (Mathematics)  
Pi Sigma Alpha (Political Science)  
Pi Tau Sigma (Engineering)  
Psi Chi (Psychology)  
Sigma Pi Sigma (Physics)  
Sigma Theta Tau (Nursing)  
Tau Beta Sigma (Band)  
Upsilon Pi Epsilon (Computer Science)  
Sigma Alpha Iota (Music)

### Social Greek Letters

Alpha Kappa Alpha Sorority, Inc.  
Alpha Phi Alpha Fraternity, Inc.  
Delta Sigma Theta Sorority, Inc.  
Iota Phi Theta Fraternity, Inc.  
Kappa Alpha Psi Fraternity, Inc.  
Omega Psi Phi Fraternity, Inc.  
Pan Hellenic Council  
Phi Beta Sigma Fraternity, Inc.  
Sigma Gamma Rho Sorority, Inc.  
Zeta Phi Beta Sorority, Inc.

### Service Fraternities

Alpha Gamma Psi  
Alpha Phi Omega  
Gamma Alpha Chi

Gamma Sigma Sigma  
Omega Tau Pi  
Phi Mu Alpha  
Psi Phi Beta  
Upsilon Phi Upsilon

### Academic Departmental

American Chemical Society  
American Society of Interior Designers  
Animal Science/Pre-Veterinary  
Medicine Club  
Association for Budgeting and Finance  
Association for Information Technology  
Professional (AITP)  
Black Executive Exchange Program (BEEP)  
Child Development Club  
Designers of Tomorrow  
Economics and Finance Club  
English Club  
Engineering Technology Society (E-Tech)  
Family and Consumer Sciences Club  
Food Nutrition And Dietetics Association  
Golden Key Club  
Graduate Student Association  
History Club  
Honor Student Association

Institute of Management Accounts (IMA)  
 Minority Association of Pre-Health  
 Student (MAPS)  
 Marketing Club  
 Minorities in Agriculture Natural  
 Resources and Related Sciences  
 National Organization of Black  
 Chemists  
 Ranger Challenge  
 Sign Language  
 Social Work Action Club  
 Southern National Educators Association  
 Therapeutic Recreation Society  
 Union Governing Board

### General

African Student Organization  
 Atlanta Organization  
 Cali Club

Chess Club  
 International Student Organization  
 Jaguar Jems  
 Lamda Players  
 Models United Nations  
 MWEWE Eusi Philosophical Society  
 Nation of Islam Student Association  
 National Black Chamber of Commerce  
 Rotoract Club  
 SU Chapter  
 Nuwaubian Sorority and Fraternity  
 Gold'n Bluez Dance Team  
 The Smith-Brown Memorial Union  
 Look Dancers  
 S.T.A.R.T.  
 S.U. Interdenominational Choir  
 Student for Self Improvement  
 NAACP

### Religious

Destiny Ministry  
 Wesley United Methodist  
 Foundation  
 Full Gospel Fellowship Outreach Ministries  
 Sons of Light  
 Southern University Sunday School

### Military

Association of the United States  
 Army  
 National Society of Guidons  
 National Society of Pershing Rifles  
 Scabbard and Blade  
 Semper Fidelis

## COMMUTER STUDENT PROGRAM

**Location:** 2nd Floor Suite 203 Smith-Brown Memorial Union

**Office Hours:** 8 a.m. to 5 p.m. Monday through Friday

**Telephone:** (225) 771-2940

The Commuter Student Program, under the supervision of the Student Programs Office, provides services and facilities to meet the physical, personal safety, and educational needs of commuting students based on institutional assessment of their needs. This program will provide commuter students greater access to services, information and campus programming developed by the Student Program Office, Student Union, and Student Government Association.

## UNIVERSITY COUNSELING CENTER (UCC)

**Location:** Adjacent to the Student Health Center

**Office Hours:** 8 a.m. to 5 p.m. Monday through Friday

**Telephone:** (225) 771-2480 OR 771-3567

After 5 p.m. for emergencies call (225) 924-3900

The University Counseling Center (UCC) serves as the primary mental health agency for Southern University Baton Rouge students, faculty, and staff. The UCC serves the developmental, emotional, and preventive needs of students through assessment, group and individual counseling, crisis intervention, referrals for psychological and psychiatric evaluations, alcohol screening and referrals, health education, career referrals, outreach/consultation, and programming.

UCC's mission is to help facilitate the students' academic matriculation by assisting in the development of the "whole" person. Some of the most common concerns students can face include: transition(s), difficulty with roommates, interpersonal relationships, familial, anxiety, depression, sexual concerns, early childhood abuse, victimization, alcohol abuse/dependency, and uncertainties about personal values and beliefs.

### Confidentiality

All UCC records are strictly confidential and will not become part of the University's records. Records will be released only upon written consent of the student. The exception to this strict confidentiality occurs only if the student poses a threat of serious harm to self or others or, in the case where required by law.

**Fees:** Services are free to students.

## OFFICE OF DISABILITY SERVICES

**Location:** 125 Blanks Hall

**Office Hours:** 8 a.m. to 5 p.m., Monday through Friday

**Telephone:** (225) 771-3546

The Office of Disability Service (ODS), under the supervision of the University Counseling Center, assists students in meeting their unique academic/educational, personal, vocational and social needs. Academic accommodations are made on the basis of student's documented disabilities. Assistance is also provided for students with temporary disabilities. Services may include but not limited to assistance with admission and registration, class scheduling, classroom and testing arrangements, academic counseling, audio taping, and interpreters.

## OFFICE OF STUDENT MEDIA SERVICES

**Location:** T.H. Harris Hall – Suite 1062 & 1064

**Office Hours:** 8 a.m. to 5 p.m., Monday through Friday

**Telephone:** (225) 771-3004, or 771-2464

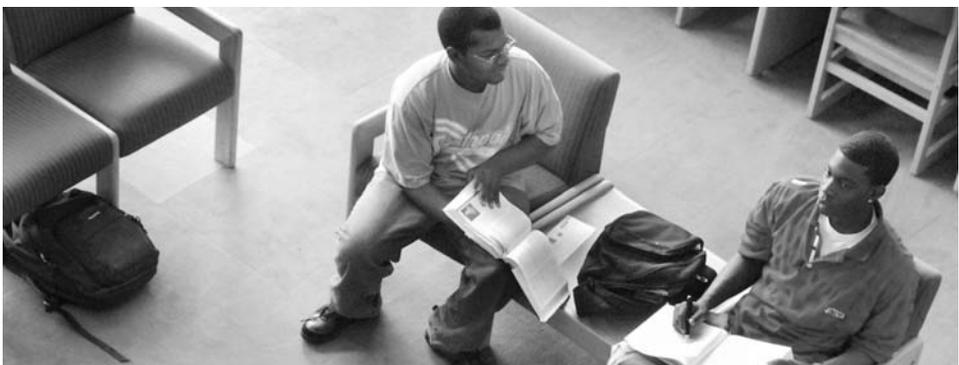
The Southern University Office of Student Media is to guide and service its student journalist and campus community with quality publications, with the purpose of enhancing the student experience, while servicing the entire university through the production of a printed student newspaper (The Southern DIGEST), on-line publication ([www.southerndigest.com](http://www.southerndigest.com)) and a yearbook (The Jaguar).

The DIGEST, a student newspaper published twice-weekly with an interactive on-line version at [www.southerndigest.com](http://www.southerndigest.com) and The Jaguar Yearbook, a student yearbook published annually. Each publication is financed through the student publication fee and its own advertising revenue. All publications are written and edited by students and allows interaction between students, faculty, staff, administration and the general public. The views presented are those of the student staff members and do not necessarily reflect the administration policies.

The student publications shall serve both as forums for students' expressions and as laboratories for training in journalism, on-line writing, editing, production and photojournalism. The publications serves as provision to the campus community of media as a forum of expression of opinions and comments in free and open environment, the exchange of ideas, and the dissemination of information.

This office fulfills a role critically essential to the health of a vibrant university in a democratic society while serving as the primary university news source and to provide an accurate historical record of the major campus events of the year.

Provisions for student publications are provided for in the By-Laws of the Southern University Board of Supervisors, which state that publications shall be governed by the canons of responsible journalism. The Southern DIGEST, [www.southerndigest.com](http://www.southerndigest.com) and The Jaguar Yearbook subscribe to the Code of Ethics of the Society of Professional Journalist which was adopted in 1926 and revised in 1973, 1984 and in 1987.



# Academic Affairs

The Division for Academic Affairs is the central unit which provides oversight for all teaching and learning and a variety of special projects. This unit has ultimate responsibility for the integrity of the curricula, the quality of the faculty, teaching and learning resources, student academic records, academic support services, and outreach activities with an academic focus.

The executive vice chancellor and provost is the chief academic officer of the University and serves as chair of the academic council. In addition to its teaching and research responsibilities, the faculty plays the primary role in developing the curricula and in providing mentoring support for undergraduates. The departmental chairs direct the academic programs and provide first-line leadership for the various disciplines or fields of study. The policy-making academic body is the academic council, which consists of academic deans and directors that report to the Executive Vice Chancellor and Provost.

In the existing academic structure, Southern University serves students through 13 colleges and schools and 34 departments. The University offers 45 bachelor's degrees and 26 master's degrees. As of the printing of this catalog, students may also pursue the doctor of philosophy degree in public policy, special education, science/mathematics education, environmental toxicology, nursing, and urban forestry.

Southern University is proud to have a national leadership role in service learning, undergraduate nursing education, urban forestry, physics, and study abroad activities.

The cornerstone of the University's academic programs is the belief that opportunity and excellence can coexist. To this end, the University is committed to maintaining an intellectual environment of nurturing, mentoring, creativity, and technological innovation. The function of Academic Affairs is key to the success of these initiatives.

## THE CENTER FOR INTERNATIONAL AND CONTINUING EDUCATION

**Dean:** Barbara W. Carpenter

**Assistant Dean/Assistant Professor and Coordinator of Study Abroad:** Warner J. Anderson

**Service Learning Coordinator/Instructor:** Kristan G. Gordon

**Service Learning Instructor/Study Abroad Advisor:** Heather Y. Williams

**Coordinator Non-Credit/Continuing Education:** Yvonne G. Campbell

The Center for International and Continuing Education houses three vital units in the university. The Center for International and Continuing Education is the official unit that is responsible for infusing an international perspective throughout the undergraduate and graduate curricula on the Baton Rouge campus. All international education and development programs on the Baton Rouge campus are coordinated through the Center for International and Continuing Education. Much of this is accomplished through the expansion of study abroad programs for faculty and students. Opportunities for greater participation in exchange programs for faculty and staff as well as providing research, teaching and consultant opportunities through the International Education program serve as the impetus for this unit.

**Study Abroad Programs** are an integral component of the Center for International and Continuing Education. A majority of the study abroad opportunities are conducted through the establishment of Memoranda of Understandings (MOU) with selected universities throughout the world. A unique facet of the study abroad program is the combination of service learning with language acquisition. Students participate in service learning programs in various countries where they teach English, work with com-

munity projects and participate in health initiatives while enrolling in language classes during their stay in the selected country.

The study abroad program is conducted during the May intersession of the academic year. Study abroad programs are also offered in selected countries through special academic departmental arrangements in conjunction with the Center for International and Continuing Education.

**The Division of Continuing Education** offers programs for a growing and diverse population through courses for life-long learning and distance learning experiences. However, the Division of Continuing Education does not offer degree granting programs.

Throughout an 11 – parish area, a variety of credit and non-credit courses are offered for traditional and non-traditional students. Credit programs provided through the Division of Continuing Education represent an extended arm of the University's regular undergraduate and graduate course offerings. Courses are scheduled on-campus and at off-campus sites.

Faculty are selected for their expertise and experience in the subject field to ensure quality and appropriateness for the courses taught in the Division of Continuing Education. Students desiring to pursue a degree are required to apply to the respective college for further assistance.

Also, non-credit classes and programs are offered through the Division of Continuing Education to persons in the community who are interested in self-help classes or increasing their knowledge and understanding of a subject. Continuing Education Units (CEU's) are offered to professional and non-professional persons who complete approved training courses in the respective fields.

The Evening and Weekend Program is operated through the Division of Continuing Education. The program provides an opportunity for the non-traditional student population to enroll in classes during off-peak times and on weekends. This program is especially useful to those who work full time.

The Center for Service Learning coordinates the service learning requirements for Southern University undergraduates. Students who were first-time freshmen at any post-secondary institution after August 1, 1993, are required to complete a minimum of 60 clock hours of service learning as one of the requirements for graduation. Those students 25 years of age or older who completed high school or who earned high school equivalency degrees seven or more years prior to admission and international students may have this requirement waived with the approval of the appropriate academic dean and the Director of the Center for Service Learning. Students who have been honorably discharged from the US military may also petition to have the requirement waived.

The service learning requirement may not be waived for any other reason except certifiable disability of such nature that service learning projects would jeopardize the welfare of the parties involved. Such waivers must be verified through the Center for Service Learning and filed in the Office of the Registrar.

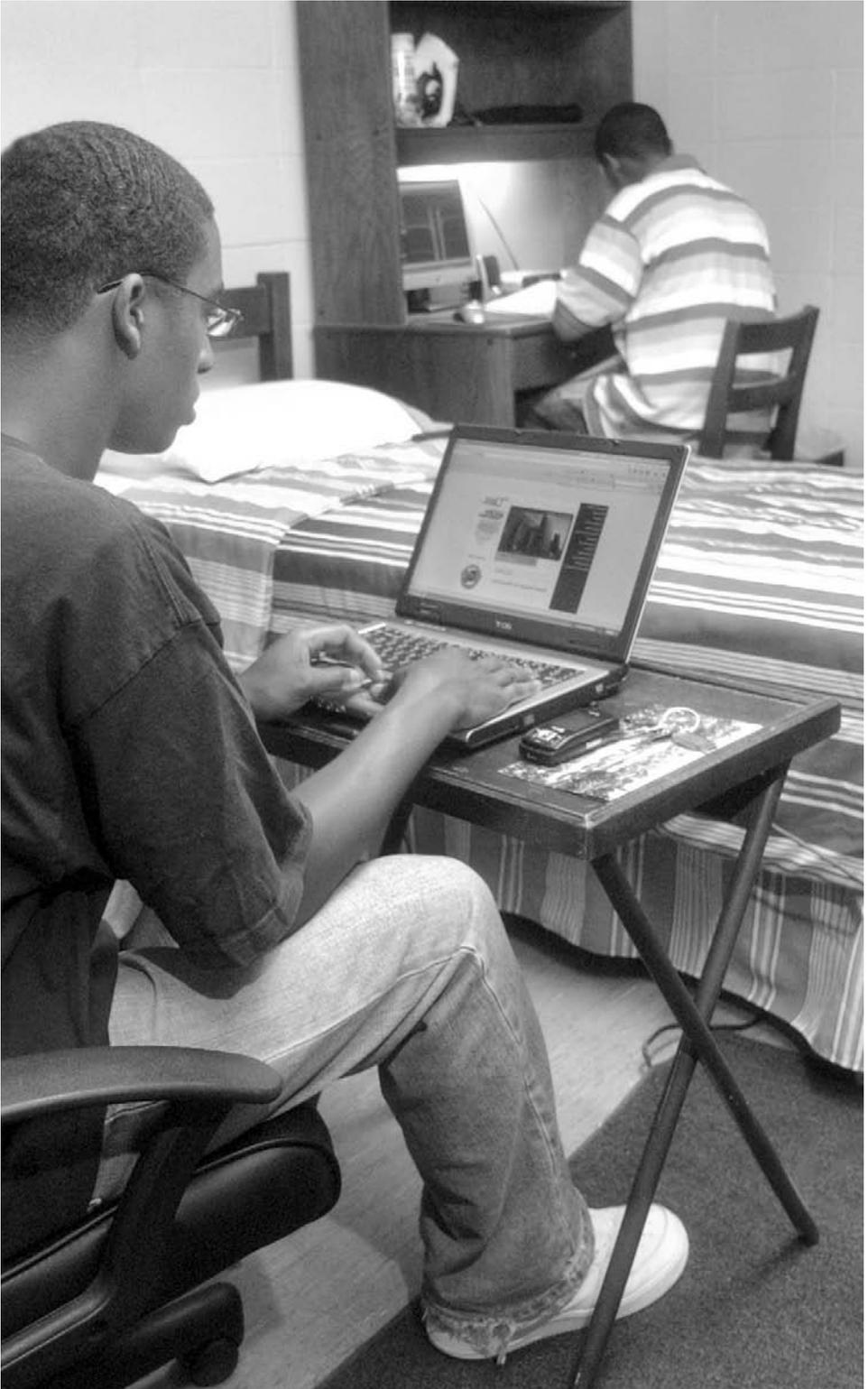
Service Learning courses are:

Service Learning 100, 200, 300 (Credit, 1 Hour, each)

Service Learning 400 (Credit, 3 Hours)

Service Learning 000 (non-credit, 0 Hour)

International Service Learning 405 (Credit, 3-6 Hours)



# University College

## FRESHMAN STUDIES

**Unit Head:** Dana Carpenter

Professor and Associate Vice Chancellor for Academic Affairs/ University College

**Professor:** C. Norman St. Amant Jr.

**Assistant Professors:** Josephine Fortuné, Rita Hill, Betty L. Johnson, Bobbie S. Ned, LaJoyce M. Wilson

**Instructors:** Carolyn Coleman, Nathaniel Harrison, Marvel Hughes, Veronica Richardson,  
Rose R. Thomas, Sulithian Williams

**Auxiliary Personnel:** Avon Honey, Patricia Doucet, Deion Dorsett, Cariola Watson, Lois St. Amant, Earl Lee, Rhonda Robinson, Robbie Robinson, Joyce Metevia, Vickie Morris, Aronda Johnson, Beatrice Armstrong Johnson, Shondra Johnson, Veronica Hill, Sharon Doyle, Consuela Savoie-Briggs, Kenneth Mackie, Dwanski Moses, Mary Tillage, Tracey Barton, Karlene White

University College plans, supervises, and coordinates academic and related experiences for freshmen and other students while they are completing requirements for transfer to a college or school of their major within the University.

University College implements and develops programs designed to ensure success at the University and to make college a satisfying experience. University College assists students in making the transition to the college environment and provides academic support programs and opportunities to help students to develop their full academic potential.

The academic unit is organized into components that offer collegiate and pre-college programs. The components are Counseling and Advisement, Freshman Reading, Developmental Education, University College Academy, Center for Student Success (Retention Program), Records and Transfer Center, Career Planning and Resource Center, Early Registration for Incoming Freshmen (ERIF), Summer Enrichment Program for Academically Talented High School Students, Educational Talent Search Program, and Upward Bound Program.

## COLLEGIATE PROGRAMS

### THE BASIC FRESHMAN STUDIES PROGRAM

Assessment and placement are essential elements of the basic freshman studies program. The University College uses the American College Test (ACT), the Scholastic Aptitude Test (SAT), the Test of English as a Foreign Language (TOEFL), and the West African Exam in action/assessment scores to ensure appropriate placement of students for instruction in reading, English, and mathematics. Also, the assessment is designed to:

- Identify special patterns of educational abilities and needs
- Improve the retention rate among freshmen students
- Provide data that will enable the University to re-examine and improve academic programs

Other services include counseling and advisement, tutoring, computer-assisted instruction, study skills instruction, and career planning. Students are required to demonstrate the attainment of skills, knowledge, and competencies at specified levels on standardized tests and proficiency examinations before enrolling in advanced courses.

- Freshman Seminar 110 and 111 help students meet the levels of academic proficiencies

### THE UNIVERSITY COLLEGE ACADEMY

The University College Academy at Southern University is focused on students' learning outcomes. The program is designed to address the academic, cultural, personal, and social needs of a select group of 100 first-time freshmen. These students have similar admissions status such as (1) high school Carnegie units, (2) 2.00 GPA; (3) ACT scores of 19-22/SAT scores of 860-1050; and (4) no previous

college credits. The program participants must have permission from parents and they must agree to abide by the policies and procedures of the Academy. The Academy has four groups of 25 students each who are required to take the same block of scheduled core courses. The core courses are English, biology, freshman seminar, history, critical thinking and analytical reasoning, and mathematics (college algebra and pre-calculus). The methodology used is a collaborative learning model with emphasis on critical thinking skills and the high levels of cognition.

### **DUAL ENROLLMENT PROGRAM**

Dual Enrollment at the Southern University Baton Rouge Campus is a program that allows high school students (juniors and seniors) to enroll in college courses for credit prior to high school graduation. College credit earned through dual enrollment can be simultaneously applied toward high school and college graduation and can be transferred to other colleges or universities. In addition to the College Level Credit dual enrollment program, Southern University offers students dual enrollment in the enrichment/development education courses and high school credit. However, the developmental elective courses cannot be used toward a college major, but a high school student can use them toward their units for graduation.

### **ACADEMIC ADVISEMENT AND COUNSELING**

The primary purpose of Academic Advisement/Counseling is to assist students in their pursuit of meaningful educational programs which will assist them in fulfilling their life goals, including career development. Advisors assist students in:

- Knowing how to use the institutional support services available to them
- Knowing institutional policies and procedures
- Making decisions based on available information
- Examining their progress toward the realization of their goals
- Choosing a career path that is suitable to their interest, skills and/or abilities

University College has a multidimensional, comprehensive academic advisement and counseling program. The program offers services which are designed to maximize students' chances for survival at the University. Each student is assigned an academic advisor through the University College. The advisor provides information, counseling and guidance throughout the students' tenure in University College. The Academic Advisor/Counselor assists students in:

- clarification of life goals
- development of educational plans
- selection of appropriate courses and other educational experiences
- evaluation of progress toward established goals
- use of institutional support services
- development of decision-making skills
- reinforcement of life goals and educational plans
- fostering self-awareness and self-evaluation, thus, enhancing a sense of personal identity

### **FRESHMAN READING PROGRAM**

Freshman Reading Program provides sequential information in reading and study skills that will enable students to master college level work. The Freshman Reading Program offers one reading course, FRMN 115.

Freshman Reading (FRMN 115) is an advanced course of extensive reading practices and analytical skills, which are commonly stressed in all content areas. Research skills also are emphasized. The course is a free elective and can be used for degree credit.

### **DEVELOPMENTAL EDUCATION**

Developmental Education programs and services address academic preparedness, diagnostic assessment and placement, barriers to learning, and development of general and discipline-specific learning strategies.

These programs and services are sensitive and responsive to the individual differences and special needs among learners. Hours earned in English (ENGL 090), and Mathematics (MATH 092) cannot be used for degree credit. Students who fail to earn a grade of "C" in any course cited above must repeat the course.

## **Grading Policy for Developmental Education Courses**

The number of hours and quality points earned in developmental education courses cannot be used toward meeting requirements for a degree. However, the hours and quality points earned in developmental education courses will be included in the computation of the semester grade point averages. A student enrolled in developmental education courses will be eligible to earn letter grades. Students earning grades of “D” and “F” are required to repeat the course.

## **RECORDS AND TRANSFER CENTER**

The Records and Transfer Center is responsible for assigning academic advisors and maintaining records and pertinent data on all students in University College. The Records and Transfer Center checks students records to determine their eligibility to transfer to their college or school of their major. If a college or school of a student’s major rejects a student’s application, the office of Records and Transfer is responsible for notifying the applicant.

## **Requirements for Transfer to a College or School in the University**

Students are eligible for transfer from the University College to a college or school of their major within the University when they have successfully satisfied the admission requirements of the college or school.

## **Academic Policy on Automatic Transfer of Students from University College to Degree-Granting Colleges and Schools**

- In order to ensure timely completion of general education requirements, transfer to a specific degree-granting college or school will become a prerequisite to enrollment for sophomore-level and above major courses in any curriculum of that college/school.
- Students in University College who have earned 30+ semester credit hours and have met the requisite eligibility requirements will be transferred automatically to their intended major college/school, subsequent to appropriate notification.
- The School of Nursing and any other academic unit with officially-approved professional accreditation or licensure-related admissions policies and procedures will continue to operate under those guidelines and will be exempted from this automatic transfer process.

For specific procedures attending this policy, see the document:

### **Process for Automatic Transfer of Students from University College to Degree-Granting Colleges and Schools**

Approved by the Academic Council June 21, 2006

## **Academic Policy on English Composition 110/111 and the Writing Proficiency Examination as Related to Transfer from University College to Degree-Granting Colleges and Schools**

- Completion of English 110 and English 111 with a grade of “C” or better and the Writing Proficiency Examination with a “P” will be a prerequisite for transfer to any major college.
- Concurrent enrollment in the Writing Proficiency Examination with English 111 will be mandatory.
- The Writing Proficiency Examination will continue to be a zero-credit, Pass/Fail listing and thus passing it will not be directly contingent upon passing English 111. However, a student who fails either English 111 or the Writing Proficiency Examination must re-register for the requisite course each subsequent semester until he/she completes the requirement.
- Since acceptance and transfer into a degree-granting college will be a prerequisite to enrolling for sophomore-level and above courses in a major program of that college, of necessity there will be provision for appropriately-documented special circumstances. For example, with written permission of the Dean of the University College and the respective college/school Dean, a non-transferred student may be enrolled in sophomore-level courses in a college/school if he/she is retaking English 111 and/or the Writing Proficiency Examination as a sophomore.

- To encourage students to complete English 111 and Writing Proficiency Examination requirements, a student must obtain the written permission of the appropriate advisor and Dean to drop or withdraw from those courses.

For procedures attending this policy, see the document:

**Administration of the Academic Policy on English Composition 110/111 and the Writing Proficiency Examination as Related to Transfer from University College to Degree-Granting Colleges and Schools**

Approved by the Academic Council June 21, 2006

## **CAREER, PLANNING, AND RESOURCE CENTER**

The Career, Planning, and Resource Center is a vital part of the counseling and advisement instructional program and aids in the achievement of the many goals and objectives of the Freshman Seminar 110 and 111 courses. Its laboratory experiences afford students the opportunity to evaluate themselves, to explore information about their career choices, and to receive individualized and personalized instruction in study techniques and in writing job analyses and resumes.

The Center provides books, videotapes and videotaping of students' activities, computer-assisted instruction, computer software of special interest to students, and computer technology for enhancing skills and eliminating deficiencies in the content areas. It brings together the instructor and technology in the same learning environment.

## **CENTER FOR STUDENT SUCCESS**

The Center for Student Success (CSS), formerly the Retention Center, provides students with support that will strengthen academic performance and promote student success and retention. The Center's services encompass learning assistance, academic excellence, and college transition programs. It also offers free academic support, such as tutoring and a Seminar Series on Academic Success to Southern University students. In addition, the Center has programs and activities for students who experience academic difficulties, as well as those who are already succeeding academically but simply want to enrich their educational experiences at Southern University. The Center also helps students become aware of other vital University resources (academic, financial, counseling, mentoring, career services, etc.) and how to use them to meet their individual needs. Components of the Center's programs include the Jaguar Preview orientation program, a peer advisor program, a computer-assisted learning program (computer-assisted laboratory), and an Early Alert retention program.

## **EARLY REGISTRATION FOR INCOMING FRESHMEN (ERIF)**

The Early Registration for Incoming Freshmen Program (ERIF) is designed for prospective freshmen who plan to pre-register during the summer for the fall enrollment. The program involves orientation, assessment, placement, advisement, and class scheduling. In order to qualify for ERIF, students must be admitted to the university and have the American College Test (ACT) or the Scholastic Aptitude Test (SAT) scores on file. ERIF is conducted on campus Monday through Thursday on specific dates during the months of June and July. ERIF is a part of Jaguar Preview Orientation program.

## **PRE-COLLEGE PROGRAMS**

### **EDUCATIONAL TALENT SEARCH PROGRAMS (FEDERALLY FUNDED GRANT)**

#### **Educational Talent Search – Classic**

The Classic is an outreach program of guidance providing academic and interpersonal advisement and support for low-income, potentially first-generation college students in middle and high school, in grades 6 through thru 12. The Classic Program increases the opportunity for students' successful performance throughout secondary and post secondary educational programs. Additionally, the project provides information and technical assistance for post secondary school admission, scholarships, and student financial aid programs.

## **Educational Talent Search – Project EXCEL**

Project EXCEL is an aggressive outreach program of academic preparation and guidance counseling for low-income, potential first-generation college students in grades 6 and 12. Project EXCEL provides a program to increase performances of academically talented students who demonstrate abilities and skills, but lack interest and motivation for a college education. The Project implements academic and psychological stimuli to increase the desire for a bachelor's degree. The early intervention of the preparation component incorporates tutoring, motivational counseling, exposure, incentive, and educational experiences to promote the desire for a college education.

## **UPWARD BOUND PROGRAMS (FEDERALLY FUNDED GRANT)**

### **Upward Bound - Classic**

The Classic Upward Bound is a highly successful pre-college preparatory program for high school students in grades 9-11. The program implements services designed to increase the academic performance and motivational levels of high school students, thus enabling them to complete a secondary education program and thereafter gain admission to a post secondary school or institution of higher education.

### **Upward Bound – Mathematics and Science**

The Upward Bound Mathematics and Science Project is a highly successful pre-college preparatory program for high school students in grades 9-10 who, through the application process, demonstrate a strong desire to work in careers in mathematics and science following college graduation.



# Dolores Margaret Richard Spikes

## Honors College

**Dean:** Beverly D. Wade

**Academic Advisor/Counselor and Assistant Professor:** Deadra James Mackie

**Program Associate:** Eric G. Pugh

**Counselor/Instructor:** Della Netter-Perkins

The Honors College provides an enhanced educational experience for students who have a history of strong academic achievements and who have demonstrated exceptional creativity or talent. Students are challenged and nurtured through the use of innovative pedagogy, flexible and competitive curricula, and mentoring relationships with distinguished faculty and scholars. The College also provides cultural and intellectual opportunities that are designed to motivate students to perform at the highest level of excellence that they are capable of and, through which they may become knowledgeable and effective leaders.

### **ADMISSION REQUIREMENTS**

Students seeking membership in the Honors College must have achieved a minimum ACT composite score of 23 or SAT score of 1060 and a 3.3 cumulative high school grade point average. Students admitted after achieving 15 college credit hours must have a 3.4 cumulative grade point average. Other factors affecting admission to the College are writing skills, participation and achievements in co- and extra-curricular activities, graduation rank and letters of recommendation.

### **Membership Classification**

Membership in the College is based on two classifications: General Scholars and University Scholars. All students must meet the minimum entrance requirements and maintain a minimum 3.0 cumulative grade point average within two sequential semesters to remain in the College. Students admitted with a 3.5 cumulative grade point average and a 27 ACT score or its SAT equivalent are designated as University Scholars and are automatically considered for the Honors College Scholarship.

### **CURRICULUM**

The Honors College curriculum is designed for students to meet the requirements for the honors degree without completing additional courses in their curriculum or area of study. Courses are selected from the student's major and designated-honors classes.

The honors curriculum consists of honors colloquia, independent study, and designated honors courses in the general curriculum and the student's major area of study. Freshmen entering the Honors College will pursue select honors-designated courses from the general curriculum, exclusive of freshman seminar.

Honors colloquia serve as the orienting courses in the College and focus on innovative pedagogy and interdisciplinary approaches to current issues. Honors Contract courses and courses from the general curriculum and the student's major are pursued in order to complete the requirements for the Honors degree.

### Honors-Designated Course Areas

Colloquia	Foreign Languages
Biology	History
Chemistry	Humanities
Engineering	Independent Study
English	

### Honors Credit By Contract

Honors Credit-by-Contract (H-Option) is designed to enable students to pursue honors work in all curricula. H-Option provides the resources by which students are able to complete the requirements for the honors degree and allows students academic freedom in building their own honors curriculum, a flexibility that often results in programs and experiences not characteristic of the traditional program.

### REQUIREMENTS FOR THE HONORS DEGREE

The designation Honors College graduate will be indicated on the transcript and diploma of students admitted to the College and who have achieved the following:

- A 3.0 GPA in all course work completed.
- A 3.3 GPA in all honors courses.
- A minimum of 32 honors hours to include:
  - 6 hours of Honors Colloquia or Independent Study.
  - 2 hours of Honors Thesis.
  - 9 hours in the student's major area.

Students completing the requirements for the honors degree will receive the official Honors College Medallion and Ceremonial Ribbon at commencement. Respective Latin honors also will be indicated for students who graduate with cumulative grade point averages of 3.4 and above.

### HONORS CORE CURRICULUM

**FRMN 112.** Freshman Honors Colloquium (Credit, 1 hour). This course focuses on contemporary issues and ideas. Essays, reviews, and editorials are used as primary reading material. Students analyze and integrate the significance of selected events and interpret information in light of history and circumstances. Critical reading, thinking, and writing are integral parts of all class activities. Vocabulary, the GRE High-Frequency Word List, is a strong focus. Guest lecturers and other human resources are also utilized to enhance course content.

**FRMN 113.** Freshman Honors Colloquium (Credit, 1 hour). Critical thinking, writing, vocabulary building and self-expression are emphasized. Through a continued focus on contemporary issues and events, research skills, class presentations and other appropriate pedagogues, students will be encouraged to improve self-expression. Expressions involving opposing points of view, basic logic, and argumentative writing are used.

**FRMN 212-213.** Sophomore Honors Colloquia (Credit, 1 hour each semester). These courses continue to focus on critical thinking, vocabulary building and self-expression. Literature, particularly selected works that are important, but not necessarily covered in the general education curriculum, is a new focus. The selected material will include issues of our times. The second phase of the course emphasizes a more comprehensive approach whereby students are required to complete a detailed analysis of topics and works presented. Topics will be determined by current trends pertinent to given disciplines.

**FRMN 312-313.** Junior Honors Colloquia (Credit, 1 hour each semester). These courses prepare students for the research thesis. Research techniques and methodology are examined through supplemental readings and project assignments.

**FRMN 314.** Independent Study (Credit, 1 hour). Independent Study provides the student with an opportunity to work closely with a faculty member on a scholarly project. It is a supplementary learning experience that encourages intellectual independence. While this course is designed to allow students to pursue research or make preparations that lead to the writing of the Honors thesis, students may also use this course to pursue other areas of interest.

**FRMN 412, 413, 414.** Senior Honors Colloquia (Credit, 1 hour each) These courses require that students complete and defend a formal thesis or research project that must be carefully planned for in advance by both the honors students and their advisors. The purpose of the thesis or research project is for students to show their command of research techniques, conceptual frameworks, and intellectual skills that are appropriate to the field in which they chose to work. The level of work expected is the same level expected in graduate study with respect to technique, accuracy, and logical presentation. The one significant difference is that the scope of the problem is a smaller, more compact one that can be handled in two semesters, along with the normal undergraduate course load.



# College of Agricultural, Family and Consumer Sciences

**Dean:** Dewitt Jones

**Associate Dean:** Doze Y. Butler

The College of Agricultural, Family and Consumer Sciences embraces a mission consistent with the University's tripartite mission of teaching, research, and public service.

The academic program prepares students for professional careers in food, fiber, natural resources, family and consumer sciences, and agricultural sciences using innovative strategies, up-to-date technologies, and current information. The program provides students with the fundamentals underlying their chosen disciplines, practical applications and solutions to discipline-related problems, and opportunities to transfer knowledge to others in a variety of formal and informal settings.

The research program in agriculture addresses problems that hold promise for enhancing agricultural productivity and profitability while protecting the environment. The research programs in family and consumer sciences focus on nutrition, health and wellness, textiles, and quality of life indicators for children, adolescents and families. This research is valuable for improving the quality of life and well-being for the people of Louisiana and society in general.

The college provides public service by developing, packaging, and transferring information and technology in agricultural, family, and consumer sciences to clientele groups in Louisiana and society in general. Faculty and staff in the college maintain relationships with public and private universities, state and federal agencies and organizations to maximize opportunities for undergraduate and graduate school preparation and professional employment.

The College of Agricultural, Family and Consumer Sciences encompasses two divisions—the Division of Agricultural Sciences and the Division of Family and Consumer Sciences. The Division of Agricultural Sciences offers three Bachelor of Science degrees—agricultural sciences, agricultural economics, and urban forestry; and a Master of Science and a Doctor of Philosophy degree in urban forestry. The Division of Family and Consumer Sciences offers one degree, the Bachelor of Science in Family and Consumer Sciences with concentrations in apparel merchandising and textiles, child development, and human nutrition and food.

Academic programs are described in the respective divisional sections of this catalog. Graduate programs are described in the Southern University Graduate School Bulletin.

## **ADMISSION REQUIREMENTS**

Admission to the college is open to students who have successfully completed the required credit hours in the University College with a minimum grade point average of 2.00.

## **DEGREE REQUIREMENTS**

To be awarded a degree in the College of Agricultural, Family and Consumer Sciences, students must successfully complete an approved program of study with the prescribed credit hours and academic average as specified in the respective curricula. Students must pass a comprehensive examination in their respective curricula and satisfactorily complete all other required examinations and appropriate community service requirements.

## University Core Courses

English	.9 credits
Mathematics	.6 credits
History	.6 credits
Social Sciences	.6 credits
Natural Sciences	.10 credits
Arts	.3 credits
Humanities Elective	.3 credits
Health/Physical Education	.2 credits
Freshman Seminar	.2 credits
Computer Literacy*	.0-3 credits
African American Experience*	.0 credits
Service Learning*	.0 credits

\*See University General Education requirements for specific information regarding these requirements.

## Freshman Seminar

Students are required to take freshman seminar or its equivalent during the first year of matriculation at Southern University to meet graduation requirements. In addition, transfer students must adhere to the following:

- Students who have earned 24 credit hours or less at another institution are required to take freshman seminar or its equivalent;
- Students who have earned more than 24 credit hours from another institution are not required to take freshman seminar as a requirement for graduation.

## Division of Agricultural Sciences Core Courses

Course	No.	Cr.
Orientation to Agricultural Science	AGSC 110	2
Plant Science	AGSC 210	3
Applied Economic Principles	AGEC 212	3
Animal Science	AGSC 121	3

## Division of Family and Consumer Sciences Core Courses

Course	No.	Cr.
Orientation to Family and Consumer Sciences	FCSC 140	2
Family and Consumer Sciences Perspectives	FCSC 481	2
Family Relationships	FCSC 490	3

Special admission and graduation requirements pertaining to divisional curricula and curricular concentrations are described in respective sections of this catalog.

# Division of Agricultural Sciences

**Associate Dean:** Dewitt Jones

**Professors:** Kamran K. Abdollahi, Veeraraghava R. Bachireddy, Kit Lin Chin, Daniel J. Collins, Yemane T. Ghebreyessus, Dewitt Jones, Patricia E. Mclean-Meyinsse, Zhu Hua Ning, Calvin R. Walker, Yadong Qi, and Gary Simon

**Associate Professors:** Fulbert Namwamba, Andra D. Johnson

The Division of Agricultural Sciences offers three academic degree programs leading to Bachelor of Science degrees in agricultural economics, agricultural sciences, and urban forestry. The degree program

in agricultural economics offers concentrations in agricultural economics and agribusiness. The agricultural sciences degree program offers concentrations in animal science and plant and environmental soil sciences. The urban forestry program also offers a M.S. and a Ph.D. degree. These programs are described in the Southern University Graduate School Bulletin.

Flexibility in the curricula of the degree programs permits students to complete an individually tailored program worked out in consultation with their advisors. The division has outdoor and indoor laboratory facilities for supporting instructional and research activities.

## DEGREE REQUIREMENTS

Students majoring in any of the degree programs offered in the Division are required to complete a minimum of 127 credit hours for a degree. These credits include a general education core, a divisional core and courses in the respective degree programs. Also, students must satisfy the African-American experience requirement, complete 60 clock hours of community service, pass the writing proficiency examination, and pass the degree/concentration area comprehensive examination to graduate.

The Division's programs provide students with quality educational experiences in the basic and applied aspects of agricultural economics, animal science, plant and soil sciences and urban forestry. Students receive the foundation necessary to pursue graduate or professional studies or compete in the job market in their respective disciplines or closely related areas. Students are also provided with opportunities to participate in experiential learning and in extra-curricular student activities that enhance development of the total person, which is essential in today's global community.

## AGRICULTURAL ECONOMICS PROGRAM

The program offers a B.S. degree with a concentration in agricultural economics and a concentration in agribusiness. The curriculum provides students with sufficient flexibility to pursue their respective career interests. Ample opportunities exist for majors to pursue interdisciplinary programs of study to enhance their employability.

## BACHELOR OF SCIENCE DEGREE IN AGRICULTURAL ECONOMICS

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Orient. to Agriculture	AGSC 110	2	Animal Science	AGSC 121	3
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Natural Science Elective	HIST	3	History Elective	HIST	3
Pre-Calculus I	MATH 135	3	Pre-Calculus II	MATH 140	3
History Elective		3	Natural Science Elective		3
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Literature Elective	ENGL	3	Farm Management	AGEC 311	3
Natural Science Elective		4	Arts Elective		3
Applied Econ. Principles	AGEC 212	3	Prin. of Econ. I	ECON 200	3
Health/PE Activity		2	Humanities Elective		3
Plant Science	AGSC 210	3	Finite Math	MATH 200	
			or Linear Algebra**	MATH 233	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Tech. of Speech	SPTH 210	3	Intro to Sociology*	SOCL 210	3
Financial Management	AGEC 333	3	Micro Theory *	ECON 310	3
Amer Government	POLS 200	3	Micro Comp. Appl.	CMPS 290	3
Macro Theory*	ECON 300	3	Elem. Statistics I	MATH 274	3
Elementary Acct. I	ACCT 200	3	Free Elective		6
Calculus for Soc. Sci. or Calculus I**	MATH 203 MATH 264	3 4			
<b>TOTAL</b>		<b>18-19</b>	<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Public Policy	AGEC 412	3	Price Analysis	AGEC 461	3
Applied Stat.	AGEC 470	3	Special Problems	AGEC 499	3
Marketing Ag. Prod.	AGEC 422	3	Free Electives		3
International Econ.*	ECON 480	3	Business Elective***		3
Resource Econ.*	AGEC 462	3	Coop. Struc. & Mgt.	AGEC 451	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

\*Students pursuing the agribusiness concentration take courses in that concentration in lieu of specified courses.

\*\*Students planning to pursue graduate studies should take MATH 233 and 264.

\*\*\*Elective may be taken from ACCT, ECON, MGMT or MKTG.

**BACHELOR OF SCIENCE DEGREE IN AGRICULTURAL SCIENCES****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Orient. to Ag. Sci.	AGSC 110	2	Animal Science	AGSC 121	3
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History Sequence	HIST	3	History Sequence	HIST	3
Pre-Calculus I	MATH 135	3	Pre-Calculus II	MATH 140	3
Biological Sciences	BIOL 104	3	Biological Sciences	BIOL 105	3
Biological Sciences	BIOL 106	1	Biological Sciences	BIOL 107	1
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>17</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Literature Elective		3	Chemistry	CHEM 113	1
Chemistry	CHEM 112	1	Chemistry	CHEM 133	3
Chemistry	CHEM 132	3	Soil & Environment	AGSC 203	3
Applied Econ. Principles	AGEC 212	3	Biometrics	AGSC 230	3
Computer Science Elective		3	Health/PE Activity		2
Humanities Elective		3	Plant Science	AGSC 210	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Conc. Requirement		6	Conc. Requirement		3
Arts Elective		3	Tech. of Speech	SPTH 210	3
Free Elective		3	Social Science Elective		3
Natural Science Elective		4	Natural Science Elective		4
			Forage Crops.	AGSC 304	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
AGSC or Division Elective		6	AGSC or Division Elective		3
Conc. Requirement		3	Conc. Requirement		3
Agr. Genetics	AGSC 410	4	Social Science Elective		3
Free Elective		3	Free Elective		6
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>

**URBAN FORESTRY PROGRAM**

The program offers a Bachelor of Science degree in urban forestry. The curriculum is designed to prepare graduates who can evaluate, plan, and resolve problems of urban forests and contribute to the environmental well-being of urban societies.

Many career opportunities are available to urban forestry graduates for entry-level jobs with municipalities, utility companies, private and governmental agencies, research and teaching institutions, tree care and landscape companies, and consulting services. Graduates may also pursue graduate studies in urban forestry and related sciences.

**BACHELOR OF SCIENCE DEGREE IN URBAN FORESTRY****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Orient. to Agriculture	AGSC 110	2	Freshman Seminar	FRMN 111	1
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History Elective	HIST	3	History Elective	HIST	3
Freshman Seminar	FRMN 110	1	Pre-Calculus II	MATH 140	3
Urban Forestry	UFOR 151	2	Gen. Chemistry Lecture	CHEM 132	3
Pre-Calculus I	MATH 135	3	Gen. Chemistry Lab	CHEM 112	1
Health/PE Activity		2	Life Science	BIOL 104/106 or BIOL 105/107	4 1
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>18</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Art Elective		3	Literature Elective	ENGL	3
Plant Science	AGSC 210	3	Gen. Chemistry Lecture	CHEM 133	3
Soc. Science Elective		3	Gen. Chemistry Lab	CHEM 113	3
Urban Dendrology	UFOR 278	3	Applied Econ. Prin.	AGEC 212	3
Biometrics	AGSC 230	3	Urb. For. Soil & Environ. or Soil and Environment	UFOR 251 AGSC 203	3 3
			Environmental Science	UFOR 271	1
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Division or U.F. Elective		3	Urban Forestry Ecol.	UFOR 391	3
Computer Sci. Elective	CMPS	3	Division or U.F. Electives		6
Arboriculture I	UFOR 364	3	Humanities Elective		3
Intro to GIS	UFOR 375	3	Social Science Elective		3
Free Electives		3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>15</b>

**Summer Internship** UFOR 399, 3 Credit Hours

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Division or U.F. Elective		3	Arboriculture II	UFOR 464	3
Urban Forest Eval/Inven.	UFOR 400	3	Architecture Electives		3
Urban Forest Pathology	UFOR 415	3	Urban Forestry Mgt.	UFOR 455	3
Urban Hydrology	UFOR 457	3	Tree Physiology	UFOR 438	3
Free Electives		3	Seminar in Urb. Forestry	UFOR 473	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

## **Division of Family and Consumer Sciences**

**Associate Dean:** Doze Y. Butler

**Professors:** Doze Y. Butler, Edith G. Harris, Bernestine B. McGee, Grace W. Namwamba

**Associate Professors:** Cheryl Atkinson, Eva B. Fields

**Assistant Professor:** Cheria Lane-Mackey

The Division of Family and Consumer Sciences offers a Bachelor of Science degree in family and consumer sciences with areas of concentration in apparel merchandising and textiles, child development, dietetics, and food science and management. An online program in Family Financial Planning is also available. The mission of the Division is to improve the well-being of individuals, families, and communities through quality teaching; scholarly activity that is relevant to the needs of the state's citizenry; and outreach locally, nationally, and globally. The Division uses an integrative approach to teaching, research, and service to accomplish its mission.

The degree program is designed to prepare men and women for leadership, scholarship, and service in the areas of specific and applied knowledge in family and consumer sciences disciplines that ensure success in a variety of professions and in graduate school. The degree is conferred upon completion of a minimum of 127 hours of course work.

The undergraduate program is accredited by the Council for Accreditation of the American Association of Family and Consumer Sciences. The Didactic Program in Dietetics and the Dietetic Internship are accredited by the Commission on Accreditation for Dietetics Education of the American Dietetic Association. The family is the central focus of the program along with a commitment to improving the human condition. Subject matter areas include food, nutrition, human growth and development, textiles, apparel merchandising, management, family relationships, and consumer education. The curriculum provides a general education component and a common body of knowledge in family and consumer sciences and family systems theory. Each area of specialization requires an internship, a practicum, or field experience, designed to provide pre-professional, on-the-job experiences for students. Research and public service activities of the Division serve to support and supplement the instructional program.

Graduates will demonstrate evidence of oral and written communication skills, readiness for graduate or professional schools, computer literacy, proficiency in qualitative and quantitative computation skills, and competencies in a chosen area of study that provide the opportunity for gainful employment.

## INTERNSHIP, PRACTICUM, OR FIELD EXPERIENCE

The Division of Family and Consumer Sciences requires all majors to complete an internship, a practicum, or field experience. The Division maintains linkages with businesses, cooperative extension services, hospitals, community and public health agencies, food service establishments, retailers, nursery schools, day care centers, kindergartens, and various federal agencies to provide student internships and practical training.

## DIETETIC INTERNSHIP

The Dietetic Internship is a post-baccalaureate, two-semester program that incorporates the Standards of Education of the Commission on Accreditation for Dietetics Education of the American Dietetic Association. Students apply for a limited number of slots. Upon completion of the program, students are eligible to complete the Registration Examination to become a Registered Dietitian.

## DEGREE REQUIREMENTS

Requirements and procedures for admission, retention, and graduation are the same in the Division of Family and Consumer Sciences as for the University. A Bachelor of Science degree in Family and Consumer Sciences will be awarded to the student who has satisfactorily completed the minimum 127 hours of course work for the selected concentration.

## BACHELOR OF SCIENCE DEGREE IN FAMILY AND CONSUMER SCIENCES

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History Elective	HIST	3	History Elective	HIST	3
Natural Science Lec.		3	Natural Science Lec.		3
Natural Science Lab		1	Natural Science Lab		1
College Math I (AMTX & CHDV)	MATH 130	3	College Math II (AMTX & CHDV)	MATH 131	3
or Pre-Calculus I (HNFD)	MATH 135	3	or Pre-Calculus II (HNFD)	MATH 140	3
Orientation to Family and Consumer Sciences	FCSC 140	2	Health/PE Activity or Ess. Nutr. & Wellness	FCSC 230	2
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
African-American Literature	ENGL 203	3	Micro Comp. Appl. Business	CMPS 290	3
Sociology	SOCL 210	3	Humanities Elective		3
FCSC Electives (AMTX, CHDV & HNFD)		3-4	FCSC Electives (AMTX, CHDV & HNFD)		3
Life Science Electives (HNFD)		4	Life Science Electives (HNFD)		4
or Business Electives (AMTX & HNFD-FSM)		9	or Business Electives (AMTX & HNFD-FSM)		9
or Education Electives (CHDV)		6	or Education Electives (CHDV)		9
<b>TOTAL</b>		<b>13-18</b>	<b>TOTAL</b>		<b>13-18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Concentration Requirements		6	Techniques of Speech	SPTH 210	3
FCSC Electives (AMTX, CHDV & HNFD)		3	Free Elective		3
Natural Science Elective		4	FCSC Electives (AMTX, CHDV & HNFD)		3
Biometrics or Elementary Statistics		3	Gen. Psyc. (AMTX & HNFD)	PSYC 210	3
			or Behavior Studies (CHDV)	BHVS 220 & 230	6
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>12-15</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Concentration Requirements		6	FCSC Perspectives	FCSC 481	2
FCSC Electives (AMTX & HNFD)		3-6	FCSC Electives (AMTX, CHDV & HNFD)		6
Org. & Adm. in Early Childhood Education (CHDV)	CRIN 470	3	Concentration Requirement		3
Family Relationships	FCSC 490	3	Arts Elective (AMTX & HNFD)		3
Free Electives		3	or Fund. of Music	MUSC 327	3
<b>TOTAL</b>		<b>15</b>	Internship (AMTX)	FCSC 464	3
			<b>TOTAL</b>		<b>14-17</b>

\*AMTX—Apparel Merchandising and Textiles

\*HNFD—Human Nutrition and Food

\*CHDV—Child Development

\*FSM—Food Science & Management

**FAMILY FINANCIAL PLANNING PROGRAM (ONLINE)**

The program in Family Financial Planning was designed to address the shortage of family financial planners from diverse ethnic backgrounds in the United States. This program is 100% online and is offered through an alliance of eight 1890 Family and Consumer Sciences units. Students must have the requisite academic background for acceptance into this program. Successful completion of the six courses in the curriculum will prepare students to sit for the Certified Financial Planners (CFP®) Certification Examination. The courses are:

	No.	Cr.
Fundamentals of Family Financial Planning	FCSC 395	3
Insurance Planning for Families	FCSC 397	3
Retirement Planning for Families	FCSC 399	3
Investment Planning for Families	FCSC 485	3
Income Tax Planning for Families	FCSC 487	3
Estate Planning for Families	FCSC 489	3

# College of Arts and Humanities

**Dean:** Richard A. Webb

The College of Arts and Humanities comprises the departments of English, Foreign Languages, History, Mass Communications, Music, Speech and Theatre, and Visual Art.

The college provides courses to all areas of the University, emphasizing the broad view of liberal education and prepares students to become critically aware of political, social and economic institutions and their problems. The college seeks to instill within students the basic concepts of truth and beauty, an orderly process of thinking and a hierarchy of values. To enhance the cultural climate of the University, the college provides a variety of concerts, theatre productions, art exhibits and lectures. Arts and Humanities prepares majors for graduate and professional schools and promotes and provides leadership in the arts.

Graduates of the college are expected to demonstrate a high level of mastery of communication skills and the capability of defining problems or issues and investigating them. Graduates are prepared to respond to and expand the creative and artistic efforts of humanity and demonstrate an awareness of and a concern for current events.

Undergraduate degree offerings in the College of Arts and Humanities are Bachelor of Arts in English, Bachelor of Arts in Visual Arts, Bachelor of Arts in French, Bachelor of Arts in History, Bachelor of Arts in Mass Communications, Bachelor of Arts in Spanish, Bachelor of Arts in Speech Communication, Bachelor of Arts in Theatre and Bachelor of Music. The Bachelor of Music Education degree (voice or instrumental) is offered in cooperation with the College of Education. Please see the curricular models in the College of Education section of this catalog.

Graduate degree offerings are Master of Arts in Mass Communications and Master of Arts in Social Science, in cooperation with the Nelson Mandela School of Public Policy and Urban Affairs and the College of Sciences. For information about these graduate programs, consult the Southern University Graduate School Catalog.

## **ADMISSION REQUIREMENTS**

Students will be eligible for admission to the College of Arts and Humanities when they have completed at least 30 semester hours with a minimum grade point average of 2.00. The following general education courses must be included: six hours of English, ENGL 110 and 111, with a grade of "C" or better in each course; six hours of history; six hours of mathematics; and ten hours of science. Requirements for admission to programs in music are described in the music area section of this catalog.

Students who transfer from other divisions of the University and accredited colleges and universities must meet the same eligibility requirements stated above. The College of Arts and Humanities will determine the acceptability of transfer credits to the respective degree programs and may decline to accept transfer credit for any course when the grade earned is lower than a "C."

## **STUDENT RESPONSIBILITY**

Students in the College of Arts and Humanities are required to confer with an assigned major department advisor on a regular basis. Beyond this advisement, students are personally responsible not only for selecting their academic programs, but also for adhering to all published regulations and requirements of the College and the University. Students are expected to seek regular advisement and ultimately are individually responsible for completing all degree requirements.

During the semester immediately prior to graduation, students must confer both with their advisor and the chair of the major department for a final degree checkout and preparation of an application for graduation. Completed graduation applications are due in the College of Arts and Humanities Office prior to the end of that semester (see published deadlines in the calendars of the catalog and class schedules) and are accepted only from those students who have passed the writing proficiency examination and have been admitted officially to the College of Arts and Humanities.

## DEGREE REQUIREMENTS

In an attempt to provide majors in the College of Arts and Humanities with a greater number of options, as well as to emphasize personal uniqueness, the college requires a core of 69-70 semester hours. The remaining hours that must be taken to earn a total of 124 semester hours are designated by the departmental major requirements and students' choices of free electives. These electives may be chosen from any courses offered at the University. However, majors in the college are urged to choose, with an advisor, courses that provide the student with a second field of interest or a strong minor or concentration.

- The completion of a minimum of 124 semester hours with a grade point average of at least 2.00. (Some departments may require additional hours or a higher average.)
- The completion of at least 27 semester hours in a major field. (Some departments may require additional hours.)
- The completion of the following general education requirements:
 

English	12 Hours
Mathematics	6 Hours
Social and Behavioral Sciences	12 Hours
(Must include two courses, six semester hours, in history.)	
Natural Sciences	10 Hours
(Must include courses in both biological and physical sciences. One of the areas must be in a two-semester sequence, e.g., Biology 104 and 105. The student must take a one-credit laboratory in conjunction with one of the three courses, the other two being lecture only.)	
Foreign Languages	9 Hours
(Full sequence of the first, second and third courses in French, German, or Spanish; or two courses in an alternative language and one other course.)	
Humanities and Fine Arts	12 Hours
(Including three hours each in humanities, philosophy, and speech; and three hours in arts or humanities outside the student's major. The final three hours may be in the major if the course is an elective not otherwise required in the curriculum.)	
Health or Physical Education	2 Hours
Computer Literacy	0-3 Hours
(May be established by examination, through appropriate computer-based courses in each major department of the College, or through the Department of Computer Science.)	
- Freshman Seminar . . . . . 0-2 Hours  
(see policy below)
- African-American Experience . . . . . 3 Hours  
(Any course outside the major officially approved to satisfy this requirement. See complete description in this catalog.)
- Community Service . . . . . 0-3 Hours  
Students must complete the 60 clock-hour requirement and may elect to do so for either credit or non-credit. (See complete description in this catalog.)
- A passing score on a comprehensive examination in the student's major is a requirement for graduation. (See complete description in this catalog.)
- Pass the University Writing Proficiency Examination before graduation. (See complete description in this catalog.)

### Freshman Seminar

Students are required to take freshman seminar or its equivalent during the first year of matriculation at Southern University to meet graduation requirements. In addition, transfer students must adhere to the following:

- Students who have earned 24 credit hours or less at another institution are required to take freshman seminar or its equivalent;
- Students who have earned more than 24 credit hours from another institution are not required to take freshman seminar as a requirement for graduation.

## Department of English and Philosophy

**Interim Chair:** Cynthia Downing Bryant

**Professors:** Janice Crosby, Joyce Meeks Jones, Jo Ann Marx, David Porter, Johnny Tolliver

**Associate Professors:** Munir Ali, Cynthia Levy, Cynthia D. Manson, Ezhamkulam C. Samkuttu

**Assistant Professors:** Evelyn C. Albert, Margaret S. Ambrose, Cynthia D. Bryant, Kim Chavis,  
Kendric Coleman, Rabiul Hasan, Vonsha Henderson, Robbia W. Kelly,  
Thomas Morgan, Florence Hines Wellons, Sumita Roy

**Writer-in-Residence:** Ernest Hill

**Full-time Adjunct Faculty:** Clarence Holmes, Hattie Lacy, Greg Lubritz, Rita Singleton,  
Kirstin Squint, Anna Woodard, John Hainly, Kevin Maguire

The academic program of the Department of English prepares students to express themselves effectively in writing and speaking and to respond to and expand creative and artistic efforts. The department prepares graduates to read and write comprehensively and critically in English and related fields. Additionally, it prepares graduates to understand relationships between the discipline of English and the total human experience, and equips them with competencies for entering the world of work as well as graduate and professional schools.

### DEGREE REQUIREMENTS

#### Major-English

The Bachelor of Arts in English includes core curricula in general education and the College of Arts and Humanities, 15 hours of free electives or a minor in another discipline, and specialized study in English, for a total of 125 hours.

In addition to general education and college requirements, a major in English must complete the following courses:

Required Courses	No.	Cr.
Applied English Grammar	ENGL 305	3
English Literature I & II	ENGL 308 & 309	6
American Literature I & II	ENGL 310 & 311	6
Black American Literature	ENGL 313	3
History of English Language	ENGL 433	3
Literary Criticism	ENGL 451	3
Shakespeare	ENGL 471	3
English Seminar	ENGL 498	3
One Period Course	ENGL 330, 350, 351, 491, or 492	3
Two English Electives (Numbered 300 or higher with special permission for graduate-level courses)	English courses	6

## Writing Proficiency and Exit Examinations

Successful completion of a Writing Proficiency Examination, and a Departmental Comprehensive Examination are prerequisites to graduation. The Writing Proficiency Examination should be taken the semester following completion of ENGL 110 and 111. The Departmental Comprehensive can be taken as early as the second semester of the junior year.

At the beginning of the semester in which the Writing Proficiency Examination is to be taken, students should enroll in ENGL 001, the course designation for that examination. The Department of English will notify majors of test dates for the Departmental Comprehensive Examination.

## Minor-English

Any student fulfilling requirements for a major in a field other than English may obtain credit for a minor in English upon satisfactory completion of the following courses:

Required Courses	No.	Cr.
Applied English Grammar	ENGL 305	3
English Literature I & II	ENGL 308 & 309	6
American Literature I & II	ENGL 310 & 311	6
Black American Literature	ENGL 313	3
Shakespeare	ENGL 471	3

## BACHELOR OF ARTS IN ENGLISH

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition I	ENGL 110	3	Freshman Composition II	ENGL 111	3
College Math I	MATH 130	3	College Math II	MATH 131	3
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
History	HIST	3	History Sequence	HIST	3
Natural/Physical Science Sequence*		3	Natural/Physical Science Sequence w/ Lab		4
Foreign Language Sequence**	FOLG 100	3	Foreign Language Sequence	FOLG 101	3
Health/Phys. Ed. Activity***		1	Health/Phys. Ed. Activity		1
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>18</b>

\* Must include courses in biological and physical sciences. One of the areas must be in a two-semester sequence. One course in sequence must include a one-credit lab; two courses can be lecture only.

\*\* Sequence of the first, second, and third courses in French, German, or Spanish.

\*\*\* HLTH 110 (2 Credit Hours) may be substituted for the two Phys. Ed. Activity classes.

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intro to Literature	ENGL 200	3	World Literature	ENGL 201	3
Computer Applications	ENGL 261	3	Techniques of Speech	SPTH 210	3
Foreign Language Sequence	FOLG 200	3	Cultural Geography	GEOG 210	3
Natural/Physical Science Sequence		3	Arts Elective*		3
Prin. of Economics I	ECON 200	3	African-American Experience		3
Writing Proficiency Exam.	ENGL 001	0	Humanities		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Applied English Grammar	ENGL 305	3	English Literature II	ENGL 309	3
English Literature I	ENGL 308	3	American Literature II	ENGL 311	3
American Literature I	ENGL 310	3	Black American Literature	ENGL 313	3
Minor Courses or Free Electives		6	Minor Courses or Free Electives		6
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
History of English Lang.	ENGL 433	3	Period Course-English	ENGL 330, 350 351, 491 or 492	3
Literary Criticism	ENGL 451	3	English Electives (300 level or above)		6
Shakespeare	ENGL 471	3	Philosophy Elective	PHIL	3
Minor Course or Free Elective		3	English Seminar	ENGL 498	3
Community Service	SVLR 400	3			
Departmental Comprehensive		0			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

## Department of Foreign Languages

**Chair:** Linda E. Lassiter

**Professors:** Irma F. Cobb, Carmen M. Del Rio, Otis Phillip Elliott, Linda E. Lassiter

**Associate Professors:** Sybil Carter, Linda E. Lassiter, Thomas Miller

**Assistant Professors:** Warner J. Anderson, Fatima Chajja

**Instructor:** Katrina Watterson

The Department of Foreign Languages at Southern University in Baton Rouge is committed to preparing its students seeking the Bachelor of Arts or Education degrees in French and Spanish for gainful employment in an increasingly multi-cultural global society. In addition, the Department offers quality and comprehensive undergraduate courses for students seeking to add market value to their college degree by completing a foreign language minor. It also offers general and professional language courses in French, Spanish, German, Chinese, and Arabic, to students seeking to fulfill undergraduate requirements. The Department is the home of the National Student Exchange, Beta Sigma Chapter of Alpha Mu Gamma, a national foreign language honor society, and Beta Xi Chapter of Phi Sigma Iota, an international foreign language honor society.

### FOREIGN LANGUAGE REQUIREMENTS

#### Majors

French and Spanish majors must take written and oral proficiency examinations in their major before completion of the first semester of their senior year. Successful completion of the senior year examination is a prerequisite for graduation. Majors must pass the Writing Proficiency Examination.

### CREDIT EXAMINATION

Students may earn credit (maximum six semester hours) for beginning foreign language classes (100 level), by passing credit examinations. Students with two or more years of high school credit and native speakers should consult the department chairperson prior to registration for classes they would like to exempt. Native speakers cannot receive credit for 100/101 level courses.

**FRENCH****REQUIRED COURSES FOR MAJORS AND MINORS IN FRENCH**

Majors are required to take 30 hours of French beginning with French 200. Minors are required to take 18 hours of 200 and 300 level courses in French. Substitutions from the 400 level may be made with permission from the department chair.

**BACHELOR OF ARTS IN FRENCH****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intermediate French I	FREN 200	3	Intermediate French II	FREN 201	3
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
History	HIST	3	History	HIST	3
Health/PE Activity		2	Natural Science Elective		3
Natural Science Elective		3	College Math I	MATH 130	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Interm. Fren. Conversation	FREN 219	3	French Phonetics	FREN 202	3
Natural Science Elective		4	Arts Elective		3
College Math II	MATH 131	3	Techniques of Speech	SPTH 210	3
Social Science Elective		3	Philosophy	PHIL	3
English Elective		3	Advanced French Grammer	FREN 255	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intro. Rdg. Francophone Lit.	FREN 300	3	Survey of French Lit. I	FREN 304	3
Humanities Electives	HUMN 241, 242, 244, or 366	6	Social Science Electives		6
English Elective		3	Free Elective		6
French Civilization	FREN 301	3			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Computer Science Elective	CMPS	3	French Elective		3
Elective (French recommended)		3	Free Electives		6
Free Electives		6	Humanities	HUMN	3
Survey of French Lit. II	FREN 305	3			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>12</b>

**SPANISH****REQUIRED COURSES FOR MAJORS AND MINORS IN SPANISH**

Spanish majors are required to take 30 hours of Spanish, beginning with 200-level courses. Spanish minors are required to take 18 hours of 200 and 300 level courses. Substitutions from the 400 level may be made with permission from the department chair.

**BACHELOR OF ARTS IN SPANISH****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intermediate Spanish I	SPAN 200	3	Intermediate Spanish II	SPAN 201	3
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
History	HIST	3	History	HIST	3
Natural Science Elective		3	Natural Science Elective		3
Health/PE Activity		2	College Math I	MATH 130	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intermediate Spanish Conv.	SPAN 219	3	Spanish Phonetics	SPAN 202	3
College Math II	MATH 131	3	Techniques of Speech	SPTH 210	3
Free Elective		3	Arts Elective		3
Natural Science Elective		4	Intro. to Reading Hispanic Lit.	SPAN 300	3
Advanced Spanish	SPAN 255	3	Philosophy		3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Spanish Civilization	SPAN 302		Intro. to Spanish Lit. OR	SPAN 306	
OR Span-Amer Civil	SPAN 303	3	Intro. to Span.-Amer. Lit.	SPAN 307	3
Intro. to Spanish Lit.	SPAN 304		English Elective		3
OR Intro. to Span.-Amer. Lit.	SPAN 305	3	Social Science Electives		6
English Elective		3	Free Elective		3
Free Electives		6			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Spanish Elective		3	Elective (Spanish Recommended)		3
Free Electives		6	Humanities Elective	HUMN 241, 242, 244, or 366	3
Social Science Elective		3	Computer Science Elective		3
			Free Electives		6
<b>TOTAL</b>		<b>12</b>	<b>TOTAL</b>		<b>15</b>

## Department of History

**Chair:** Raymond Lockett

**Professors:** Michael Fontenot, Francis Danquah, Raymond Lockett, Ruby Jean Simms,  
Arthur Tolson, Charles Vincent

**Associate Professors:** Troy Allen, Eva S. Baham, Wanda Jackson

**Assistant Professors:** Peter Breaux, Shawn Comminey, Michael Firven

**Instructors:** Dena Davis, Don Hernandez, Veronica Freeman, William Turner, Doris White, Robert Wells

The general aim of the department is to produce a student who can demonstrate a general knowledge of the histories of the peoples of the world and use the tools of historical research to expand the fields of knowledge.

A major in history shall consist of at least 33 hours of history exclusive of freshman courses. A minor in history shall consist of 18 hours, which will include History 224 and 225, and 12 hours of history electives.

Students of history are encouraged to minor in such fields as library science, speech, journalism, and related sciences, with the consent of their advisors. Students may use history as a major in order to prepare for such professional schools as law, theology, library science, diplomatic service, communications and journalism, as well as graduate work in history and other fields.

A student majoring in history is expected to take an oral or a written comprehensive examination to determine competency in his field of concentration. This examination must be taken before the completion of the first semester of the senior year. A departmental committee will supervise and direct this examination. Students are required to take the general section of the GRE and pass the Writing Proficiency Test.

### REQUIRED COURSES

A. History 224, 225, 400, and 414

B. In addition to the above required history courses, the history major must take a minimum of nine hours of non- U.S. history from any two or three of the following general geographical areas: Africa, Asia (East Asia, Middle East), Europe or Latin America.

### DEGREE REQUIREMENTS

Students are required to make a passing score on a departmental comprehensive, the writing proficiency examination, and the computer literacy examination CMPS 105. They must earn a minimum of a "C" grade in all history courses, as well as in Freshman Composition, ENGL 110 and 111, and others, 60 hours community service, and a three-hour course in the African-American Experience (humanities or literature). Additionally, students must have signed forms for advisement.

### Bachelor of Arts in History

#### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
College Mathematics I	MATH 130	3	College Mathematics II	MATH 131	3
Natural Science Elective		3	Natural Science Elective		3
History of Civilization	HIST 114	3	History of Civilization	HIST 115	3
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Health/PE Activity		2	Foreign Language Sequence	FOLG 100	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
History of the U.S.	HIST 224	3	History of the U.S.	HIST 225	3
History Elective		3	Geography Elective	GEOG	3
English Elective	ENGL	3	Natural Science Elective		4
Foreign Language Sequence	FOLG 101	3	English Elective	ENGL	3
Intro to American Govt.	POLS 200	3	Foreign Language Sequence	FOLG 200	3
Computer Science Elective	CMPS	3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>16</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
History	HIST 400	3	Histography	HIST 414	3
History Electives	HIST	6	Intro to Sociology	SOCL 210	3
Free Elective		3	History Electives		6
Tech of Speech	SPTH 210	3	Humanities Elective	HUMN	3
Principles of Economics I	ECON 200	3	Free Elective		3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Philosophy Elective	PHIL	3	History Elective		3
Free Electives		9	Free Electives		9
History Elective		3	Arts Elective		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Department of Mass Communication**

**Chair:** Mahmoud Braima

**Professors:** Mahmoud Braima

**Associate Professors:** Michael A. Kabel, Joseph T. Kennedy, Marilyn Goff

**Assistant Professors:** Shaniece Bickham, Yolanda Campbell

**Instructor:** Darrell Roberson

The Department of Mass Communication provides programs to students preparing for careers in broadcast, print journalism, and public relations.

The department seeks to impart the skills, knowledge, and attitudes needed and valued in journalism and public relations. Students are expected to develop the discipline of working under deadlines, to use the English language properly, and to become knowledgeable about current news events.

Each of three concentrations—Broadcast News, News Editorial, and Public Relations—consists of a common core of courses and a major area of specialization, along with electives at the junior and senior levels. The core courses are designed to develop a practical, theoretical, and ethical foundation common to all areas of the mass media.

Because journalists must be broadly knowledgeable, the department emphasizes the need for mass communication majors to get a solid grounding in the liberal arts and sciences. It requires, therefore, that majors take a minimum of 90 semester hours (of the 124 hours needed for graduation) in the arts and sciences; 33 hours must be taken in the major.

## ADMISSION REQUIREMENTS

Students are admitted to the mass communication program only after they have satisfied all of the following requirements:

- A minimum cumulative grade point average of 2.0.
- Completion of English 110 and English 111 with a grade of at least “C.”
- Completion of at least 30 semester hours.
- Writing Proficiency

## DEGREE REQUIREMENT

To be retained as a major in mass communication, all students must maintain a minimum grade point average of 2.25.

Students must pass News Writing, MCOM 211, with at least a “C” before they will be permitted to take any upper-level courses in mass communication. Students must pass all mass communication courses with a grade of “C” or better.

## BACHELOR OF ARTS IN MASS COMMUNICATION

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History	HIST	3	History	HIST	3
College Math	MATH 130	3	College Math	MATH 131	3
Natural Science Elective		3	Natural Science Elective		4
Health/PE Activity		2	Community Service		1
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intro to Mass Comm.	MCOM 202	3	English Elective	ENGL	3
English Elective	ENGL	3	Foreign Lang. Sequence	FOLG 101	3
Foreign Lang. Sequence	FOLG 100	3	Prin. of Economics	ECON 205	3
Comp. Literature	CMPS 105	3	Tech. of Speech	SPTH 210	3
Community Service		1	Computer Asst. Reporting	MCOM 325	3
Newswriting	MCOM 211	3	Community Service		1
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

### Junior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Concentration Electives		7-9	Concentration Electives		3-4
American Government	POLS 200	3	State & Local Government	POLS 210 or 403	3
Foreign Lang. Sequence	FOLG 200	3	Natural Science Elective		3
Mass Comm. Elective		3	Free Elective		3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>13-14</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Communications Law	MCOM 400	3	Concentration Elective		0-2
Concentration Elective		2-3	Philosophy Elective	PHIL	3
Mass Communication Elective		3	Arts Elective		3
Free Electives		7	Humanities Elective		3
			Free Electives		6
<b>TOTAL</b>		<b>15-16</b>	<b>TOTAL</b>		<b>15-17</b>

**BROADCAST CONCENTRATION COURSES**

Courses	No.	Cr.
Newscasting	MCOM 311	3
TV News Production	MCOM 315	3
TV Newswriting	MCOM 318	3
TV News Reporting	MCOM 319	3
TV News Practicum	MCOM 406	3

**PRINT CONCENTRATION COURSES**

Courses	No.	Cr.
Gen Assignment Reporting	MCOM 306	3
Media Graphics	MCOM 307	3
News Editing	MCOM 308	3
Photojournalism	MCOM 343	3
Reporting Public Affairs	MCOM 401	3

**PUBLIC RELATIONS CONCENTRATION COURSES**

Courses	No.	Cr.
Public Relations Practices	MCOM 301	3
Media Graphics	MCOM 307	3
Public Relations Writing	MCOM 316	3
Public Relations Research	MCOM 430	3
Public Relations Techn & Camp	MCOM 439	3

**MASS COMMUNICATION ELECTIVES**

Courses	No.	Cr.
African-Americans in the Media	MCOM 331	3
Feature Writing	MCOM 341	3
TV Editing	MCOM 345	3
Sports Writing	MCOM 361	3
Public Relations Technologies	MCOM 425	3
Management of Radio & TV Stations	MCOM 441	3
Broadcasting & Advertising	MCOM 475	3
Internship	MCOM 491	3
Ethics in Mass Communication	MCOM 499	3

**Mass Communications Minor**

PRINT CONCENTRATION			BROADCAST CONCENTRATION		
Course	No.	Cr.	Course	No.	Cr.
Intro. to Mass. Comm.	MCOM 202	3	Intro. Mass. Comm.	MCOM 202	3
News Writing	MCOM 211	3	News Writing	MCOM 211	3
Mass. Comm. Law	MCOM 400	3	Mass Comm. Law	MCOM 400	3
Media Graphics	MCOM 307	3	TV News Writing	MCOM 318	3
General Assign. Reporting	MCOM 306	3	TV News Production	MCOM 315	3
News Editing	MCOM 308	3	TV News Reporting	MCOM 319	3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Public Relations Minor**

Courses	No.	Cr.
Intro. to Mass. Comm.	MCOM 202	3
News Writing	MCOM 211	3
Public Relations Practices	MCOM 301	3
Media Graphics	MCOM 307	3
Public Relations Writing	MCOM 316	3
Mass. Comm. Law	MCOM 400	3
<b>TOTAL</b>		<b>18</b>

These minors are not available to mass communications majors, who must select a minor outside the department.

## Department of Music

**Interim Chair:** Joyce W. O'Rourke

**Professors:** Jacqueline Paige Green, Charles Lloyd, Richard A. Webb

**Associate Professors:** Frank Chemay, Richard Hobson, Patricia Martin

**Assistant Professors:** Harry Anderson, Craig Heinzen, Judy G. James, Thais Perkins

The Department of Music offers major and minor concentrations in music education and music performance. In addition to its primary role of providing professional and pre-professional training for its majors, the department serves as a major cultural center and resource for the University and offers a wide range of activities and courses which promote the aesthetic development of the general University population.

The department offers programs leading to the Bachelor of Music Education and Bachelor of Music.

All majors and minors in the department are required to participate in co-curricular organizations and/or activities of respective programs, which serve as laboratories for training in their respective disciplines. Specific graduation requirements are listed in the curricula for each discipline.

All majors in the department must fulfill the stipulated University and Board of Regents general education core requirements; specific requirements of the college in which the student is enrolled (College of Arts and Humanities or College of Education); and the University's requirements in community service and in the African-American experience. All majors are required to pass the writing proficiency examination and the department comprehensive examination in the respective disciplines. Students are responsible for knowing and adhering to published schedules for the administration of the above tests and for applying for graduation.

### MUSIC

The music program offers curricula leading to the Bachelor of Music and Bachelor of Music Education Degrees. The program also offers a minor in music.

All music majors, minors, and other students enrolled in applied music for credit must perform before a faculty jury at the end of each semester.

Majors and minors are required to participate in ensembles of the major applied concentration. Voice and piano students fulfill this requirement in concert choir. Students in the Bachelor of Music Education (Instrumental) program will enroll in marching band in the fall and concert band in the spring, as well as a minimum of three semesters of a small instrumental ensemble, i.e. brass ensemble or jazz ensemble. Students in the Bachelor of Music (Instrumental) program will take two years (four semesters) of concert band and two years of the small ensemble appropriate to their particular instruments. Students must enroll in ensemble throughout matriculation as a music major or minor.

Students in music education may not enroll in student teaching until all core music requirements have been successfully completed and may have no more than six remaining hours of other unfulfilled requirements.

A grade of "C" or better must be earned in every course in the core music requirement. Music majors and minors must repeat courses in which a grade of "D" or "F" was earned during the semester immediately following the semester during which the failing grade was earned (or in the next semester during which the course is offered), and before progressing to the next level of courses in sequence, or to courses for which the failed course is a prerequisite.

Students in voice and instrumental music must pass a Piano Proficiency Examination before graduation.

Music majors are required to take the basic music core courses for respective degrees and a core of courses that satisfy the general education requirements set by the University and the Board of Regents. Students must meet the graduation requirements of the College of Arts and Humanities (Bachelor of Music) or the College of Education (Bachelor of Music Education).

The professional teaching degree, Bachelor of Music Education (Piano and Voice) or (Instrumental), is awarded through the College of Education. Requirements for this program are listed in the College of Education section. While the professional education component is offered in the degree-granting college, since the music subject content is sequential and skills-intensive, it is mandatory that students be advised in the Department of Visual and Performing Arts Music area, as well as in the College of Education for the duration of their matriculation.

Minors in music must take a minimum of 20 hours in core music courses and applied music, and must participate in an ensemble of the applied discipline. Enrollment in Concert Choir fulfills this requirement for applied piano minors.

## **ADMISSION REQUIREMENTS**

Applicants to the music program must audition in a major area of performance for admittance to one of the music curricula. In addition, entering freshmen are required to take a placement examination testing aural ability and knowledge of elementary theory. Provisional admittance is granted to applicants whose placement results indicate the need for preparatory study in theory and/or performance. All students are encouraged to have pre-college work in basic theory as well as study in performance areas, i.e., piano, voice, and instruments.

## **DEGREE REQUIREMENTS**

Majors are required to attend the weekly performance and recital class, which is part of the applied music and departmental requirement. The performance requirement also includes attendance at a stipulated number of faculty and other artist recitals, performances by departmental ensembles, and other specified performances on and off campus. Majors must fulfill the performance requirement for the duration of enrollment in applied music or for a minimum of eight semesters. Minors must fulfill the same requirements for the duration of enrollment in applied music.

Majors are required to be in continuous enrollment in applied music through completion of the senior recital during the last semester in residence, which is a requirement for majors in the Bachelor of Music program. Students in the Bachelor of Music Education program may prepare a senior project in lieu of the senior recital.

**BASIC MUSIC CORE COURSES****Harmony**

MUSC 102-103, 202-203, 8 Hours

**Ear Training and Sight-Singing**

MUSC 104-105, 204-205, 8 Hours

**Ensemble**

\*124-125, 224-225, 324-325, 424-425

**Music History and Literature**

MUSC 250-251, (3 Hours each) 6 Hours

**Applied Music (MAJOR) (2 Hours each), 16 Hours**

MUSC 112-113, 212-213, 312-313, 412-413 (Piano)

MUSC 120-121, 220-221, 320-321, 420-421 (Instrumental)

MUSC 136-137, 236-237, 336-337, 436-437 (Voice)

**Applied Music (SECONDARY or MINOR) (1 Hour each), 4-6 Hours**

MUSC 108-109, 208-209, 308-309 (Secondary Piano)

MUSC 134-135, 234-235, 334-335 (Class Voice)

**Music Technology**

MUSC 114, 2 Hours

\*In class schedules for each semester, ensemble courses will carry the following prefixes:

MUCB-Concert Band; MUCC-Concert Choir; MUBE-Brass Ensemble; MUJE-Jazz Ensemble;

MUMB-Marching Band; MUPE-Percussion Ensemble; MUWE-Woodwind Ensemble.

Note: These courses also serve as proficiency level for prospective majors and electives for non-majors.

**Performance and Recital**

MUSC 130-131, 230-231, 330-331, 430-431 (non-credit; 7-8 sems.), 0 Hours

**Conducting**

MUSC 418 (Vocal), 2 Hours

OR MUSC 419 (Instrumental), (2 Hours)

**Orchestration, Band Arranging**

MUSC 432, 433 (2 Hours each), 2-4 Hours

**Form and Analysis**

MUSC 302, 2 Hours

**Counterpoint**

MUSC 304, 2 Hours

**COURSE REQUIREMENTS FOR MUSIC MINOR****Harmony**

MUSC 102-103, 4 Hours

**Ear-Training**

MUSC 104-105, 4 Hours

**Music History and Literature**

MUSC 250-251 (3 Hours each), 6 Hours

Applied Music (4 semesters), 8 Hours

**Ensemble**

MUSC 124-125, 224-225, 4 Hours

**Performance and Recital (non-credit)**

MUSC 130-131, 230-231, 0 Hours

**ELECTIVES IN JAZZ**

MUSC 106 - Jazz Improvisation; MUSC 116 - Intellectual Properties;  
 MUSC 118 - Economics of Music Business; MUSC 122 - Electronic Percussions;  
 MUSC 241 - Recording Arts; MUSC 243 - Louisiana Ethnic Music;  
 MUSC 353 - History of Jazz; MUSC 382 - Jazz Composition & Arranging;  
 MUSC 124, 125, 224, 225, 324, 325 - Jazz Ensemble

**BACHELOR OF MUSIC (PERFORMANCE)****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Freshman English	ENGL 110	3	Freshman English	ENGL 111	3
History Elective	HIST 000	3	History Elective	HIST 000	3
Harmony	MUSC 102	2	Harmony	MUSC 103	2
Ear Training/Sight Sing	MUSC 104	2	Ear Training/Sight Sing	MUSC 105	2
Major Applied		2	Major Applied		2
Performance Class	MUSC 130	0	Performance Class	MUSC 131	0
Ensemble		1	Secondary Applied or		1
Secondary Applied or		1	Jazz Improvisation	MUSC 107	2
Jazz Improvisation	MUSC 106	2	Ensemble		1
Physical Ed. Activity	PHED	1	Physical Ed. Activity	PHED	1
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Mathematics	MATH 130	3	Mathematics	MATH 131	3
Harmony	MUSC 202	2	Harmony	MUSC 203	2
Ear-Training/Sight-Singing	MUSC 204	2	Science Elective		4
Music History	MUSC 250	3	Ear Training/Sight Sing	MUSC 205	2
Major Applied		2	Music History	MUSC 251	3
Performance Class	MUSC 230	0	Major Applied		2
Secondary Applied or		1	Performance Class	MUSC 231	0
Jazz Improvisation	MUSC 206	2	Secondary Applied or		1
Ensemble		1	Jazz Improvisation	MUSC 207	2
Music Technology	MUSC 114	2	Ensemble		1
Survey of Instruments	MUSC 314	1			
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>20</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Form and Analysis	MUSC 302	2	Counterpoint	MUSC 304	2
Major Applied		2	Major Applied		2
Performance Class	MUSC 330	0	Performance Class	MUSC 331	0
Ensemble		1	Ensemble		1
Orchestration	MUSC 432	2	Science Elective		3
Techniques of Speech	SPTH 210	3	Music Elective	MUSC	2
Foreign Language	FOLG 100	3	History of Jazz	MUSC 353	3
Conducting	MUSC 418/419	2	Foreign Language	FOLG 101	3
Science Elective		3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>16</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Major Applied	MUSC	2	Philosophy	PHIL 200/210	3
Performance Class	MUSC 430	0	Music Elective	MUSC	2
Ensemble		1	Major Applied/Sr. Recital		2
Arts Elective	ARTS	3	Performance Class	MUSC 431	0
Foreign Language	FOLG 200	3	Ensemble		1
Social Science Elective		3	Social Science Elective		3
Music Elective	MUSC	2	English Lit. Elective		
English Lit. Elective	ENGL	3	(African American Experience)		3
			Humanities Elective	HUMN	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

**MUSIC MINOR PROGRAM (must earn a total of 20 hours)**

APPLIED MUSIC 4 HOURS (MIN. 4 COURSES)			HARMONY 4 HOURS (MIN. 2 COURSES)		
Course	No.	Cr.	Course	No.	Cr.
Piano	MUSC 112	2	Music Theory	MUSC 100	2
	MUSC 113	2	Harmony	MUSC 102	2
	MUSC 212	2		MUSC 103	2
	MUSC 213	2			
Voice	MUSC 136	2	<b>MUSIC HISTORY 3 HOURS (MIN. 1 COURSE)</b>		
	MUSC 137	2	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
	MUSC 236	2	Music Appreciation	MUSC 200	3
	MUSC 237	2	Music Hist. & Lit.	MUSC 250	3
Instrumental	MUSC 120	2		MUSC 251	3
	MUSC 121	2	History of Jazz	MUSC 353	3
	MUSC 220	2			
	MUSC 221	2			
<b>ENSEMBLE 4 HOURS (should be in area of applied credit concentration)</b>			<b>EAR TRAINING 4 HOURS (MIN. 2 COURSES)</b>		
<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
	MUSC 124	1	Ear Training/Sight Singing	MUSC 104	2
	MUSC 125	1		MUSC 105	2
	MUSC 224	1	<b>PERFORMANCE CLASS (MIN. 4 COURSES)</b>		
	MUSC 225	1	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
				MUSC 130	0
				MUSC 131	0
				MUSC 230	0
				MUSC 231	0
<b>SECONDARY INSTRUMENT 1 HOUR (MIN. 1 COURSE)</b>			<b>OTHER REQUIREMENTS</b>		
<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Piano	MUSC 108	1	Writing Proficiency	ENGL 001	0
	MUSC 109	1	Service Learning	SVLR	0-3
Voice	MUSC 134	1			
	MUSC 135	1			
Instrument	MUSC 110	1			
	MUSC 111	1			

# Department of Speech Communication and Theatre Arts

**Chair:** Joyce W. O'Rourke

**Professors:** Erma W. Hines, Joyce W. O'Rourke, Aileen Hendricks

**Associate Professor:** Ava Brewster-Turner

Students may major in speech communication or theatre arts, and often choose to major in one and minor in the other since the two programs share a number of courses. Students may choose from a large number of electives that provide in-depth experience in acting, directing, production, design, children's theater, and debate. Training in speech communication and theatre arts can lead to careers in more than 150 different fields, including acting, law, arts management, government, fashions, stage and lighting design, radio announcing, management, sales, television and radio newscasting, and many other related areas.

The Frank Hayden Fine Arts Building houses these two programs and a 300-seat theatre complete with computerized lighting and sound systems, complete scenic and costume shops, dressing and makeup rooms, and a green room. A spacious lobby leads to the theatre, and is the setting for scheduled art exhibits and receptions.

Minors in speech communication or theatre must take a minimum of 18 hours in an area of concentration.

\*A minimum of two departmental laboratory courses is required, but majors and minors may take additional departmental laboratory courses for elective credit. These courses provide valuable practical experience in the field. Majors and minors may elect SPTH 495, "Special Projects," as a means of in-depth exploration of an area of individual interest and specialization.

## BACHELOR OF ARTS IN SPEECH COMMUNICATION

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
College Mathematics I	MATH 130	3	History	HIST	3
Health/PE Activity		2	College Mathematics II	MATH 131	3
Fundamentals of Speech	SPTH 120	3	*Departmental Lab	SPTH 101	1
*Departmental Lab	SPTH 100	1	Techniques of Speech	SPTH 210	3
History	HIST	3	Natural Science Sequence		3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>17</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Foreign Lang. Sequence	FOLG 100	3	Oral Interpretation	SPTH 340	3
Fund. of Comm. Theory	SPTH 130	3	Arts Elective		3
Literature Elective	ENGL	3	Foreign Lang. Sequence	FOLG 101	3
Natural Science Sequence		4	Natural Science Sequence		3
Intro to Mass Comm.	MCOM 202	3	Humanities Elective	HUMN	3
			*Departmental Lab	SPTH 201	1
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Mass Comm. Elective	MCOM	3	Business Communication	SPTH 310	3
Voice & Phonetics	SPTH 330	3	Public Speaking	SPTH 430	3
Argu. and Debate	SPTH 345	3	Advanced Writing	ENGL 401	3
Computer Sci. Elective	CMPS	3	Philosophy	PHIL 200/210	3
Foreign Lang. Sequence	FOLG 200	3	Social Science Elective		3
			*Departmental Lab	SPTH 300	1
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Hist. of Pub. Address	SPTH 420	3	Adv. Arg. & Debate	SPTH 445	3
Discussion & Interpersonal Comm. in Org.	SPTH 440	3	Free Electives		9
Social Science Elective		3	Social Science Elective		3
Free Electives		6	*Departmental Lab	SPTH 401	1
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>

**Course Requirements for Speech Communication Minors**

Courses	No.	Cr.
Fundamentals of Speech	SPTH 120	3
Fundamentals of Comm Theory	SPTH 130	3
Voice & Phonetics	SPTH 330	3
Oral Interpretation	SPTH 340	3
Public Speaking	SPTH 430	3
Discussion & Interpersonal Comm. in Org. or Argumentation and Debate	SPTH 440 SPTH 345/445	3 3

**BACHELOR OF ARTS IN THEATRE ARTS****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
College Mathematics I	MATH 130	3	History	HIST	3
Health/PE Activity		2	College Mathematics II	MATH 131	3
Fundamentals of Speech	SPTH 120	3	*Departmental Lab	SPTH 101	1
*Departmental Lab	SPTH 100	1	Fundamentals of Theatre	SPTH 150	3
History	HIST	3	Computer Science Elective	CMPS	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>17</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Foreign Lang. Sequence	FOLG 100	3	Foreign Lang. Sequence	FOLG 101	3
Stagecraft	SPTH 270	3	Advanced Stagecraft	SPTH 275	3
Stagecraft Lab	SPTH 271	1	Advanced Stagecraft Lab	SPTH 276	1
Natural Science Sequence		4	Natural Science Sequence		3
Departmental Lab	SPTH 200	1	Elective		3
Intro to Drama	ENGL 205	3	Philosophy	PHIL 200 /210	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Voice and Phonetics	SPTH 330	3	Theatre History	SPTH 360	3
Acting	SPTH 380	3	Oral Interpretation	SPTH 340	3
Fine Arts	ARTS 110/130	2	Shakespeare	ENGL 471	3
Foreign Lang. Sequence	FOLG 200	3	Social Science Elective		3
Departmental Lab	SPTH 300	1	Humanities	HUMN	3
Natural Science Elective		3			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Design for the Stage	SPTH 450	3	Free Electives		13
Play Production	SPTH 490	3	Departmental Lab	SPTH 401	1
Social Science Elective		3	Arts Elective	ARTS	3
Departmental Lab	SPTH 400	1			
Free Elective		3			
<b>TOTAL</b>		<b>13</b>	<b>TOTAL</b>		<b>17</b>

**Course Requirements for Theatre Minors**

Courses	No.	Cr.
Fundamentals of Theatre	SPTH 150	3
Stagecraft	SPTH 270	3
Stagecraft Lab	SPTH 271	1
Oral Interpretation	SPTH 340	3
Theatre History	SPTH 360	3
Acting	SPTH 380	3
Play Production	SPTH 490	3

## Department of Visual Arts

**Chair:** Martin Payton

**Professors:** Martin Payton, Addie Dawson-Euba

**Assistant Professors:** Robert Cox, Randell Henry, Anne Bigger, Leanne Cambric

The Southern University Department of Visual Arts provides instruction and training in painting, drawing, printmaking, sculpture, ceramics, design, computer graphics, and art history. The department is accredited by N.A.S.A.D., and offers a Bachelor of Arts in Fine Arts. Seven full-time faculty members and three adjuncts are responsible for instruction. The department provides instruction for majors, and a wide range of courses open to all students. A continuing series of exhibitions staged in the fine arts gallery are open to the Southern University and Baton Rouge communities. The department's gallery exhibitions attract over 3,000 visitors per year from the university, public and private schools in the parish, and the community at large. More than 400 students per semester are served via 12 sections of art appreciation courses. The department offers advanced studio courses at the four hundred levels, which include independent study and senior project. The Visual Arts Department offers "studio art" students a curriculum of courses designed to prepare them for various careers in visual art. Common to all artists and designers is a need to function not only creatively, but also to extend their research to philosophical and historical concerns. The Visual arts curriculum is responsible for preparing students to experience the visual arts of diverse cultural sources, historical periods, and media.

Undergraduate studies in studio art prepare students to function in a variety of artistic roles. Curricula in the visual arts prepare students to "read" the non-verbal language of art, develop responses to visual phenomena, and organize perceptions and conceptualizations intuitively. Students become familiar with and develop competence in various art techniques. Students also become familiar with the major achievements in the history of world art, including past and present works of leading artists. Students understand and evaluate contemporary thinking about art and design, and make valid assessments of quality in design projects and works of art. In the Spring of 2001, the Baton Rouge campus dedicated the Southern University Museum of Art (S.U.M.A.) to enhance the knowledge of African/African-American contributions in the area of visual arts. This museum is located on a part of the campus, which has been designated as a historic district.

Artists and designers must develop an understanding of other areas of human achievement and competence through studies in the communicative arts of speaking, reading, and writing. General studies courses may be selected in the natural and physical sciences, social sciences, communications, and the humanities. Curricular design is structured to provide students with an ability to function and interact with the changing society, and to accommodate the individual career interests of students. Studio concentration and experience represent the core of preparation for careers in art and design. Students experience a range of media, techniques, materials and processes. Art majors are required to participate in annual student exhibitions as well as evaluation of portfolios.

All majors in the department must fulfill the stipulated University and Board of Regents general education core requirements specific requirements of the college in which the student is enrolled (College of Arts and Humanities), and the University's requirements in community service and in the African-American experience. All majors are required to pass the writing proficiency examination and the department comprehensive examination. Students are responsible for knowing and adhering to published schedules for the administration of the above tests and for applying for graduation.

Visual Art majors are required to take a minimum of 62 semester hours of fine arts courses. Some electives must be taken from other disciplines, specified non-required courses in the major area also may be taken as electives.

**BACHELOR OF ARTS IN VISUAL ARTS****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Freshman English	ENGL 110	3	Freshman English	ENGL 111	3
College Math	MATH 130	3	College Math	MATH 131	3
Science (Bio., Chem., Phy.)		4	Science (Bio., Chem., Phy.)		3
Design	ARTS 110	3	Design	ARTS 111	3
Drawing	ARTS 130	3	Drawing	ARTS 131	3
			Understanding the Arts	ARTS 200	3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>19</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Drawing	ARTS 250	3	Drawing	ARTS 251	3
History	HIST 114	3	History	HIST 115	3
Printmaking	ARTS 222	3	Printmaking	ARTS 322	3
Computer Graphics	ARTS 221	3	English Elective	ENGL (201-208)	3
Survey of World Art	ARTS 210	3	Survey of World Art	ARTS 211	3
Ceramics	ARTS 330	3	Ceramics	ARTS 331	3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Science Elective		3	Speech	SPTH 210	3
English Elective	ENGL (201-208)	3	Social Science Elective		3
Foreign Language	FOLG 100	3	Foreign Language	FOLG 101	3
Painting	ARTS 370	3	Painting	ARTS 371	3
Sculpture	ARTS 310	3	Sculpture	ARTS 311	3
Humanities	HUMN 241	3	Art Elective		3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Health/P.E.		2	Free Elective		3
Art Elective		3	Philosophy		3
Social Science Elective		3	Service Learning		3
Foreign Language		3	20th Century Art	ARTS 441	3
African American Art	ARTS440	3	Senior Project	ARTS 494	2
<b>TOTAL</b>		<b>14</b>	<b>TOTAL</b>		<b>14</b>

# College of Business

**Dean:** Donald Andrews

**Associate Dean and MBA Director:** Ashagre Yigletu

**Assistant to the Dean:** Melanie Powell Rey

**Development/Placement Coordinator:** Toni Jackson

**Information Technology Support Specialist:** Christopher C. Hunte Jr.

**Assistant to the Associate Dean and MBA Director:** Mary Cobb-Marshall

The College of Business provides a professional education program to prepare students of diverse abilities and varying academic backgrounds for the challenges of the business community, the global market, and society. The college contributes to the economic development of the state through relationships with small and minority businesses as well as through outreach activities which foster motivation for educational achievement. It supports intellectual growth and encourages scholarly pursuits and participation in professional organizations.

The primary focus of the College of Business has traditionally been, and continues to be, on teaching. In recent years, professional service activities and intellectual contributions have assumed more prominent roles in the college and serve to enhance the instructional program.

The college is organized into three academic units and one support unit. Academic units are the School of Accountancy, the Department of Economics and Finance, and the Department of Management and Marketing. The support units include the James A. Joseph Endowed Chair in Minority and Small Business Enterprise, the Louisiana Small Business Development Center, and the Southern University Small Business Incubator, which offers professional assistance to small business enterprises in East Baton Rouge and surrounding parishes.

Undergraduate degree programs are offered in accounting, economics, electronic business, finance, management and marketing. concentration in finance also is offered. All programs are accredited by the Association to Advance Collegiate Schools of Business (AACSB International).

Each curriculum offered by the College of Business consists of three educational tiers representing a broadly based general education, a core education in the basic areas of business knowledge, and a specialized education in a business area. The business curricula have been continuously revised and updated to reflect recent trends in higher education and to adhere to standards and guidelines set by the AACSB International.

The college's academic offerings represent a full complement of courses ranging from introductory to advanced in accounting, economics, finance, management, and marketing. A wide range of electives also are available in each of the business disciplines. Educational programs emphasize quality instruction considers the national and international dimensions of business and development of students' communication skills.

The baccalaureate degree programs facilitate lifelong learning opportunities to prepare students to compete favorably in the global job market, to provide enhanced awareness of entrepreneurial challenges and rewards, and to prepare students for advanced studies in graduate and professional schools.

## ADMISSION REQUIREMENTS

Admission to the College of Business is open to students who have successfully completed the core requirements of the University College, students who wish to transfer from other degree-granting areas of the University, and transfer students from other approved colleges and universities.

### Transfer from the University College

To be admitted to the College of Business, a student must:

- Attain at least a 2.00 grade point average on a minimum of 30 semester hours of college credit courses which must include the following core courses:
  - Freshman Composition, ENGL 110-111, 6 Hours
  - Finite Mathematics and Calculus, MATH 200 & 203, 6 Hours
  - Computer Science, 3 Hours
  - Natural Sciences, 7 Hours
- Earn a grade of "C" or better in Freshman Composition, ENGL 110 and 111 (or equivalent). Students transferring from the University College should pursue the program for one of the following curricula: accounting, economics, finance, management, or marketing.

## **Transfer from Other Areas at the University**

Students transferring from other colleges at the University must meet the same requirements as students transferring from the University College. Transfer credits are acceptable for degree programs to the extent they represent course requirements in the appropriate curriculum.

## **Transfer from Other Colleges or Universities**

Students transferring from other approved colleges or universities must meet the general University requirements, the requirements of persons transferring from University College, and the requirements of students transferring from other areas of the University.

Transfer students with more than 30 semester hours of college credits and with a minimum grade point average of 2.00 may be admitted conditionally if they have not completed core course requirements for University College. However, they must:

- Enroll during the first semester in all courses not completed or enroll in at least 12 hours of such courses.
- Pass courses in the core requirement with a grade of "C" or better.
- Complete all core courses within two semesters.
- Maintain a minimum 2.00 GPA on all courses attempted at Southern University.

The College of Business may decline to accept transfer credits for any course when the grade earned is lower than "C" or for business courses completed at the lower-division level, when the course is offered at the junior or senior level in this college. Transfer credit will be granted for courses taken at another institution only when the courses involved and the level of the transfer applicant's achievement in them permit the student to complete satisfactorily remaining upper division professional work.

## **STUDENT ADVISEMENT**

Academic advisement is conducted through the department or school administering the major field. Students are assigned advisors when admitted to the College of Business. They are encouraged to consult with their advisors regarding all relevant aspects of their academic matriculation.

## **STUDENT RESPONSIBILITY**

Students in the College of Business are responsible for selecting academic programs and adhering to all published regulations and requirements of the college and the University. It is the students' responsibility to learn these regulations and to satisfy degree requirements. A student's academic advisor may not assume that responsibility. Students must meet with academic advisors for a final degree checkout during the semester immediately preceding graduation.

## **DEGREE REQUIREMENTS**

To earn an undergraduate degree in the College of Business, students must complete an approved program of study of not less than 128 semester hours with a minimum overall 2.00 GPA and 59 credit hours in general education requirements. Students also must have earned a minimum grade of "C" in all courses taken in the College of Business and all courses pursued in the major area. See the departmental listings of required courses in each major.

A student transferring to the College of Business is required to complete at least 50 percent of the total business credit hours, the courses taken to satisfy the major, and the 300- and 400-level courses at Southern. All 300-400 level business courses are restricted to students who have completed 56 semester credit hours of college-level course work.

Students in University College are not allowed to enroll in the 400-level business courses. These students must be admitted to the College of Business before permission is given for enrollment in such courses.

Business students must pass the writing proficiency test and departmental comprehensive exams in their respective majors.

## **Freshman Seminar**

Students are required to take freshman seminar or its equivalent during the first year of matriculation at Southern University to meet graduation requirements. In addition, transfer students must adhere to the following:

- Students who have earned 24 credit hours or less at another institution are required to take freshman seminar or its equivalent;
- Students who have earned more than 24 credit hours from another institution are not required to take freshman seminar as a requirement for graduation.

## GENERAL EDUCATION REQUIREMENTS

See University General Education Requirements section of this catalog for English, natural sciences, arts, humanities, health or physical education, freshman studies, African American Experience, and Community Service. Please note the Natural Science Section which requires ten hours of course work in the biological and physical sciences, with a laboratory experience. Three of the ten hours required in the natural sciences must be biology and six hours must consist of a science sequence. Only one hour of lab is required. Other requirements for business majors include:

### Mathematics and Statistics

Nine credit hours as follows:

Finite Mathematics, MATH 200

Calculus for Business and Social Sciences, MATH 203

Business and Economics Statistics, ECON 275 (A grade of "C" or better is required).

Before enrollment in the mathematics courses listed above, students must show proficiency in college algebra, either by passing a mathematics proficiency examination or by successfully completing, MATH 135 (Pre-Calculus Mathematics I) with a grade of "C" or better. Students who earned credit for MATH 200, may not earn credit for lower level mathematics courses. Calculus I, MATH 264, may be substituted for MATH 203. Enrollment in advanced mathematics courses is encouraged.

### Computer Science

Microcomputer Applications in Business, CMPS 290, 3 Hours

Enrollment in advanced computer science courses is encouraged.

### Social Sciences

Six credit hours in the social sciences. Courses are to be taken from the disciplines of economics, geography, political science, psychology, and sociology. Business students are required to complete Psychology 210. Accounting majors are required to complete Psychology 210 and Economics 200.

### Communications

Six credit hours in communications, including three credit hours in written communication and three credit hours in oral communication.

Written communication may be selected from:

Technical Writing, ENGL 362

Advanced Writing, ENGL 401

Oral Communication, Business and Professional Communication, SPTH 310

## COLLEGE COURSE REQUIREMENTS

Courses	No.	Cr.
Introduction to Financial Acct.	ACCT 200	3
Introduction to Managerial Acct.	ACCT 201	3
Principles of Economics I (Macro) and II (Micro)*	ECON 200-210	6
Managerial Finance I	FINC 330	3
Principles of Management	MGMT 300	3
Econ. or Finance Elective (300 or above)		3

Courses	No.	Cr.
Management Information Systems**	MGMT 305	3
Quantitative Analysis in Business	MGMT 306	3
Production Management	MGMT 310	3

Legal Environment of Business***	MGMT 360	3
Strategic Management	MGMT 490	3
Principles of Marketing	MKTG 300	3

\*Principles of Economics I is not a core course for all Accounting majors.

### **Courses required vary in accordance to the major field as follows:**

Accounting: 300, 301, 310, 320, 340, 400, 430, and electives

Economics: 300, 310, 340, 415, 480, and electives

Finance: ACCT 300, FINC 430, 436, 451, 481, and electives

Management: 320, 420, 470, 480, and electives

Marketing: 320, 335, 360, 475, 480, 491, and electives

### **MINORS IN THE COLLEGE OF BUSINESS**

Students may receive a minor in Accounting, Marketing, Management, Economics, Finance by completing 18 hours. A minor in "Business" requires 21 hours. Check the main office in the College of Business for the curriculum for minors.

\*\*Accounting majors are required to complete Accounting Information Systems, ACCT 340

\*\*\*Accounting majors are required to take six hours of Business Law, MGMT 360 and ACCT 461.

### **CORRESPONDENCE AND INDEPENDENT STUDY COURSES**

If correspondence or independent courses are taken, the plan of study must be submitted in writing to the appropriate department chairperson and to the dean of the College of Business for approval prior to enrolling in the class. A maximum of six hours can be approved without special permission from the dean.

## **The School of Accountancy**

**Director:** Mary Alice Gray Darby

**Associate Professors:** Wede Brownell, Herbert Vessel, Aaron Witherspoon

**Assistant Professors:** Mary A. Gray Darby

The School of Accountancy was established to meet the growing demand for highly qualified professionals in the many specialized areas of accountancy. The school provides a professional education to prepare students for careers in public accounting, corporate accounting, financial management, and a variety of careers that demand a high level of proficiency in accounting.

Through a traditional four-year curriculum leading to a Bachelor of Science degree in accounting, the school's program encourages scholarly professional research that contributes to the advancement of accounting theory and practice. Additionally, it provides students with the foundation for passing professional certification examinations such as the Certified Public Accountant (CPA), Certified Management Accountant (CMA), and the Certified Internal Auditor (CIA) examinations.

In addition to students in the College of Business, the school offers accounting courses that serve the needs of the University-wide constituency and offers various educational services to the professional and business communities.

Graduates also gain the necessary foundation to pursue advanced degrees in business and related areas.

### **DEGREE REQUIREMENTS**

Accounting majors are required to complete 128 semester hours of which 33 credit hours must be in the field of accounting (Above the principles level). A grade of "C" or better must be attained in all accounting courses presented to fulfill the requirements in the major. Accounting electives in specialized areas are available to advanced students.

## The 150-Hour Requirement

While the traditional four-year program fulfills the educational requirements for certain areas of accounting, Louisiana requires a baccalaureate degree and no less than 150 hours of University course credit to take the Certified Public Accountants' (CPA) examination. A number of other states have similar requirements and prospective candidates are advised to contact the respective State Boards of Accountancy. Individuals desiring to meet these requirements can do so by completing a minimum of 22 additional hours beyond the hours required for the baccalaureate degree.

## BACHELOR OF SCIENCE IN ACCOUNTING

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Finite Math	MATH 200	3	Calculus Bus./Soc. Sci.	MATH 203	3
History	HIST	3	History	HIST	3
Biological Sci. Elective		4	Physical Sci. Elective		3
Arts Elective		3	Prin. of Econ. I	ECON 200	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Literature Elective	ENGL	3	Technical Writing	ENGL 362	3
Bus. & Econ. Stat.	ECON 275	3	General Psychology	PSYC 210	3
Natural Sci. Sequence		3	Bus. & Prof. Com.	SPTH 310	3
Financial Acct. Principles	ACCT 200	3	Managerial Acct. Prin.	ACCT 201	3
Micro Comp. Appl. (Bus.)	CMPS 290	3	Prin. of Econ. II	ECON 210	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

### Junior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Principles of Management	MGMT 300	3	Econ. or Finc. Elective		3
Quant Analysis in Bus.	MGMT 306	3	Prod. Management	MGMT 310	3
Legal Environ of Bus.	MGMT 360	3	Managerial Finance I	FINC 330	3
Prin. of Marketing	MKTG 300	3	Intern Acct. II	ACCT 301	3
Intern Accounting	ACCT 300	3	Managerial Cost. Acct.	ACCT 320	3
Tax Accounting	ACCT 310	3	Health/PE Activity		2
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>17</b>

### Senior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Adv. Accounting	ACCT 400	3	Auditing	ACCT 430	3
Acct. Info. Systems	ACCT 340	3	Strategic Management	MGMT 490	3
Accounting Elective	ACCT	3	Adv. Bus. Law for Acct.	ACCT 461	3
Humanities Elective		3	Accounting Elective	ACCT	3
Free Elective (Service Learning)		3	Accounting Elective	ACCT	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

## Department of Economics and Finance

**Chair:** Ghirmay S. Ghebreyesus

**Professors Emeriti:** Jaswant R. Jindia, Frederick Temple

**Professors:** Donald R. Andrews, Ghirmay Ghebreyesus, Vineeta Lokhande-Hingorani,  
Ashagre Yigletu, Melissa Waters

**Associate Professors:** Michael Smyser, Sung C. No, Hamady Diop, Aloyce Kaliba

The Department of Economics and Finance offers courses designed to provide students with basic information and current knowledge of the operation of the American economy and finance. The department emphasizes innovative teaching, research, and professional service activities. It offers a four-year curriculum leading to a Bachelor of Science degree in business economics and in Finance.

The economics and finance programs provide students with a comprehensive knowledge of economic and financial theories and the ability to apply analysis in both specializations. Such knowledge will enable graduates to obtain managerial and administrative positions in business and government. Additionally, students are provided with experience designed to equip them with the theoretical tools of investigation and promote critical thinking and analytical skills in economics and finance.

The Department also offers a concentration in Global Trade and Finance to those students who desire a global emphasis within the business economics program. The analytical and language skills developed in this concentration will enhance the students' career opportunities in a rapidly changing global market place.

Economics majors are required to complete 128 credit hours of which 24 credit hours must be in the field of economics. A grade of "C" or better must be attained in all economics courses presented including ECON 275 to fulfill the credit hour requirements in the major. Economics electives in specialized areas are available to advanced students.

The Global Trade and Finance Concentration\* consists of twelve (12) hours beyond the required core courses through course substitutions\*\*. Six (6) of these credits are required economics and finance courses, three (3) elementary level foreign language and three (3) may be satisfied by choosing from the four (4) functional area business courses. In addition students are encouraged to take intermediate level foreign language (French, Spanish or German) courses and to study abroad.

Finance majors are required to complete 128 credit hours, of which 24 credit hours must be in the field of finance. A grade of "C" or better must be attained in all finance courses present to fulfill the credit hour requirement in the major. Finance electives in specialized areas are available to advanced students.

### BACHELOR OF SCIENCE IN BUSINESS ECONOMICS

#### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Finite Math	MATH 200	3	Physical Science		3
History	HIST	3	Calculus Bus./Soc. Sci.	MATH 203	3
Micro Comp. Appl (Bus.)	CMPS 290	3	History	HIST	3
Biological Science		4	Social Sci. Elective	ECON 320/460	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Literature Elective	ENGL	3	Technical Writing	ENGL 362	3
Bus. and Econ. Stat.	ECON 275	3	Bus. & Prof. Com.	SPTH 310	3
Science Sequence		3	Intro to Managerial Acct.	ACCT 201	3
Intro to Financial Acct.	ACCT 200	3	General Psychology	PSYC 210	3
Prin. of Econ. I	ECON 200	3	Prin. of Econ. II	ECON 210	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Principles of Management	MGMT 300	3	Mgmt. Info Systems	MGMT 305	3
Quant Analysis in Bus.	MGMT 306	3	Production Management	MGMT 310	3
Legal Environ of Bus.	MGMT 360	3	Interm Micro Theory	ECON 310	3
Prin. of Marketing	MKTG 300	3	Money and Banking	ECON 340	3
Interm Macro Theory	ECON 300	3	Health/PE Activity		2
Managerial Finance I	FINC 330	3	Economics Electives	ECON	3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>17</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Humanities Elective**		3	Strategic Management	MGMT 490	3
Economics Elective	ECON	3	Business Elective**		3
Managerial Econ. Analysis	ECON 415	3	International Economics	ECON 480	3
Free Elective	FLANG 100	3	Free Elect. (volunteer)*		3
Arts Elective		3	Econ./Finc. Elective		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

\*Students specializing in Global Trade and Finance are required to take the following courses:

Two of the following courses are required courses:

ECON	320	Labor and Human Resources Economics OR
ECON	460	Economics of Development and Growth
FINC	481	International Finance

A student is required to choose one of the following 100 level elementary foreign languages:

FREN	100	Elementary French
SPAN	100	Elementary Spanish
GERM	100	Elementary German

A student is required to choose one from the following list of business courses:

MGMT	480	Management of International Business
MKTG	480	International Marketing
ACCT	480	International Accounting
FINC	436	Investments

\*\*Course substitution for the Global Trade and Finance Concentration:

- 100 level elementary foreign language course for free elective
- 200 level intermediate foreign language course for Humanities elective
- MGMT 480; MKTG 480; ACCT 480 or FINC 436 for Business elective
- FINC 481 for ECON/FINC elective
- ECON 460 or ECON 320 for Social Science elective

## BACHELOR OF SCIENCE IN FINANCE

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
English Composition	ENGL 110	3	English Composition	ENGL 111	3
Finite Math	MATH 200	3	Physical Science Elective		3
History	HIST 114	3	Calculus for Bus. and Soc.	MATH 203	3
Micro Comp. Appl.	CMPS 290	3	History	HIST 115	3
Biological Science Elective		4	Social Science Elective		3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Literature Elective	ENGL	3	Technical Writing	ENGL 362	3
Bus. and Econ. Stat.	ECON 275	3	Bus. & Prof.	SPTH 310	3
Natural Science Sequence		3	Intro to Managerial Acct.	ACCT 201	3
Intro to Financial Acct.	ACCT 200	3	Gen. Psychology	PSYC 210	3
Prin. of Economics I	ECON 200	3	Prin. of Economics II	ECON 210	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

### Junior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Prin. of Management	MGMT 300	3	Mgmt. Info Systems	MGMT 305	3
Quant Analysis in Bus.	MGMT 306	3	Production Management	MGMT 310	3
Intermediate Acct.	ACCT 300	3	Fin. Institutions & Cap.	FINC 451	3
Prin. of Marketing	MKTG 300	3	Money & Banking	ECON 340	3
Health/PE		2	Legal Environments Bus.	MGMT 360	3
Managerial Finance I	FINC 330	3	Finance/Econ Elective*		3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

### Senior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Humanities Elective		3	Strategic Management	MGMT 490	3
Investments	FINC 436	3	International Finance	FINC 481	3
Managerial Finance II	FINC 430	3	Finance Elective		3
Finance Elective	FINC	3	Free Elective		3
Arts Elective		3	Free Elective (Volunteer)		3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

\*Finance electives are 300 and above

## Department of Management and Marketing

**Chair:** George M. Neely Sr.

**James A. Joseph Endowed Chair for Small & Minority Business Enterprise:** Richard L. McCline

**Professor Emeritus:** Harold A. Brown

**Professors:** Eugene Calvasina, Stephen Jaros, Saviour Nwachukwu, Mysore Ramaswamy

**Associate Professors:** Albert D. Clark Jr., George Kirk, Victor Mbarika, Richard L. McCline,  
George M. Neely Sr., Jose H. Noguera

**Assistant Professors:** Katrece M. Albert, Earl A. Marcelle, Carlos Thomas

The Department of Management and Marketing offers a wide variety of courses in several business areas including management, production, business law, quantitative methods, information systems, and marketing. These courses are designed to lead to degrees in management or marketing.

The department offers a management curriculum and a marketing curriculum designed to provide students with knowledge of management and marketing theory and practice, preparing them for a variety of careers.

Management majors are required to complete 128 credit hours of which 24 hours beyond management courses required of all business majors must be in the field of management. A grade of "C" or better must be attained in all management courses presented to fulfill the credit hour requirements in the major.

Marketing majors are required to complete 128 credit hours of which 27 credit hours must be in the field of marketing. A grade of "C" or better must be attained in all marketing courses presented to fulfill the credit hour requirement in the major. Marketing electives in specific areas are available to advanced students.

### BACHELOR OF SCIENCE IN BUSINESS MANAGEMENT

#### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Finite Math	MATH 200	3	Physical Science		3
History	HIST	3	Calculus for Bus. and Soc.	MATH 203	3
Micro Comp. Appl. (Bus.)	CMPS 290	3	History	HIST	3
Biological Science		4	Social Sciences Elective		3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

#### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Literature Elective	ENGL	3	Technical Writing	ENGL 362	3
Bus. & Econ. Statistics	ECON 275	3	Bus. and Prof. Comm.	SPTH 310	3
Natural Science Sequence		3	Intro to Managerial Acct.	ACCT 201	3
Intro to Financial Acct.	ACCT 200	3	Gen. Psychology	PSYC 210	3
Prin. of Econ. I	ECON 200	3	Prin. of Econ. II	ECON 210	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Prin. of Management	MGMT 300	3	Mgmt. Info. Systems	MGMT 305	3
Quant Analysis in Bus.	MGMT 306	3	Production Management	MGMT 310	3
Legal Environment Bus.	MGMT 360	3	Managerial Finance I	FINC 330	3
Prin. of Marketing	MKTG 300	3	Human Resources Mgmt.	MGMT 320	3
Economic Electives		3	Management Elective	MGMT*	3
Arts Elective		3	Health/PE Activity		2
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>17</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Organizational Behavior	MGMT 420	3	Entrepreneurship	MGMT 470	3
Management Elective	MGMT*	3	Strategic Management	MGMT 490	3
Mgmt. of Int'l. Bus.	MGMT 480	3	Management Electives	MGMT*	6
Humanities Elective		3	Free Elective		3
Free Elective		3			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

\*Management electives in specific areas are available to advanced students. These areas of concentration include Human Resource Management (HRM), Supply Chain Management (SCM), Management Information Systems (MIS), Entrepreneurship and Small Business Management (ESBM).

**Students concentrating in ESBM should complete the following courses:**

MGMT	470	Entrepreneurship I
MGMT	471	Entrepreneurship II
MGMT	472	Resource Acquisition Strategy
MGMT	473	Internship in Entrepreneurship

**Students concentrating in HRM should complete the following two courses:**

MGMT	425	Compensation Management
MGMT	428	Labor-Management Relations
In addition, students should select two courses from:		
ECON	320	Labor and Human Resource Economics
MGMT	400	Management Seminar
MGMT	465	Business and Professional Ethics
PSYC	350	Industrial/Org. Psychology
PSYC	360	Psychological Testing
PSYC	372	Occupational Information and Job Placement
PSYC	437	Psychology of Human Resources

Students concentrating in HRM are encouraged to select PSYC 350 Industrial/Organizational Psychology, PSYC 372 Occupational Information and Job Placement, or PSYC 437 Personnel Psychology, for their social science elective, and ECON 320 Labor and Human Resource Economics for their economics elective.

**Students concentrating in SCM should complete the following four courses:**

MGMT	312	Purchasing and Materials Management
MGMT	410	Physical Distribution Systems
MGMT	445	Logistics and Transportation Systems
MGMT	446	Enterprise Resource Planning

In addition, students concentrating in OM are encourage to select PSYC 350 Industrial/Organizational Psychology, PSYC 372 Occupational Information and Job Placement, or PSYC 437 Personnel Psychology, for their social science elective, and ECON 320 Labor and Human Resource Economics for their economics elective.

**Students concentrating in MIS should complete the following four courses:**

MGMT	340	Management and Business Databases
MGMT	341	Development of Business Information Systems
MGMT	441	Electronic Commerce
MGMT	443	Business Data Communications and Society

**BACHELOR OF SCIENCE IN MARKETING****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Finite Math	MATH 200	3	Physical Science		3
History	HIST	3	Calculus for Bus. and Soc.	MATH 203	3
Micro Comp. Appl. (Bus.)	CMPS 290	3	History	HIST	3
Biological Science		4	Social Science Elective		3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Literature Elective	ENGL	3	Technical Writing	ENGL 362	3
Bus. & Econ. Stat.	ECON 275	3	Bus. & Prof. Com.	SPTH 310	3
Natural Science Sequence		3	Intro to Managerial Acct.	ACCT 201	3
Intro to Financial Acct.	ACCT 200	3	Gen. Psychology	PSYC 210	3
Prin. of Econ. I	ECON 200	3	Prin. of Econ. II	ECON 210	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Prin. of Management	MGMT 300	3	Mgmt. Info. Systems	MGMT 305	3
Quant Analysis in Bus.	MGMT 306	3	Production Management	MGMT 310	3
Legal Environment in Bus.	MGMT 360	3	Health/PE Activity		2
Prin. of Marketing	MKTG 300	3	Professional Selling	MKTG 335	3
Economics Elective	ECON	3	Consumer Behavior	MKTG 320	3
Managerial Finance I	FINC 330	3	Marketing Promotion*	MKTG 360	3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>17</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Marketing Research	MKTG 475	3	International Marketing	MKTG 480	3
Marketing Elective*	MKTG	3	Strategic Management	MGMT 490	3
Arts Elective		3	Marketing Elective*	MKTG	3
Humanities Elective		3	Free Elective		3
Free Elective		3	Marketing Strategy	MKTG 491	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

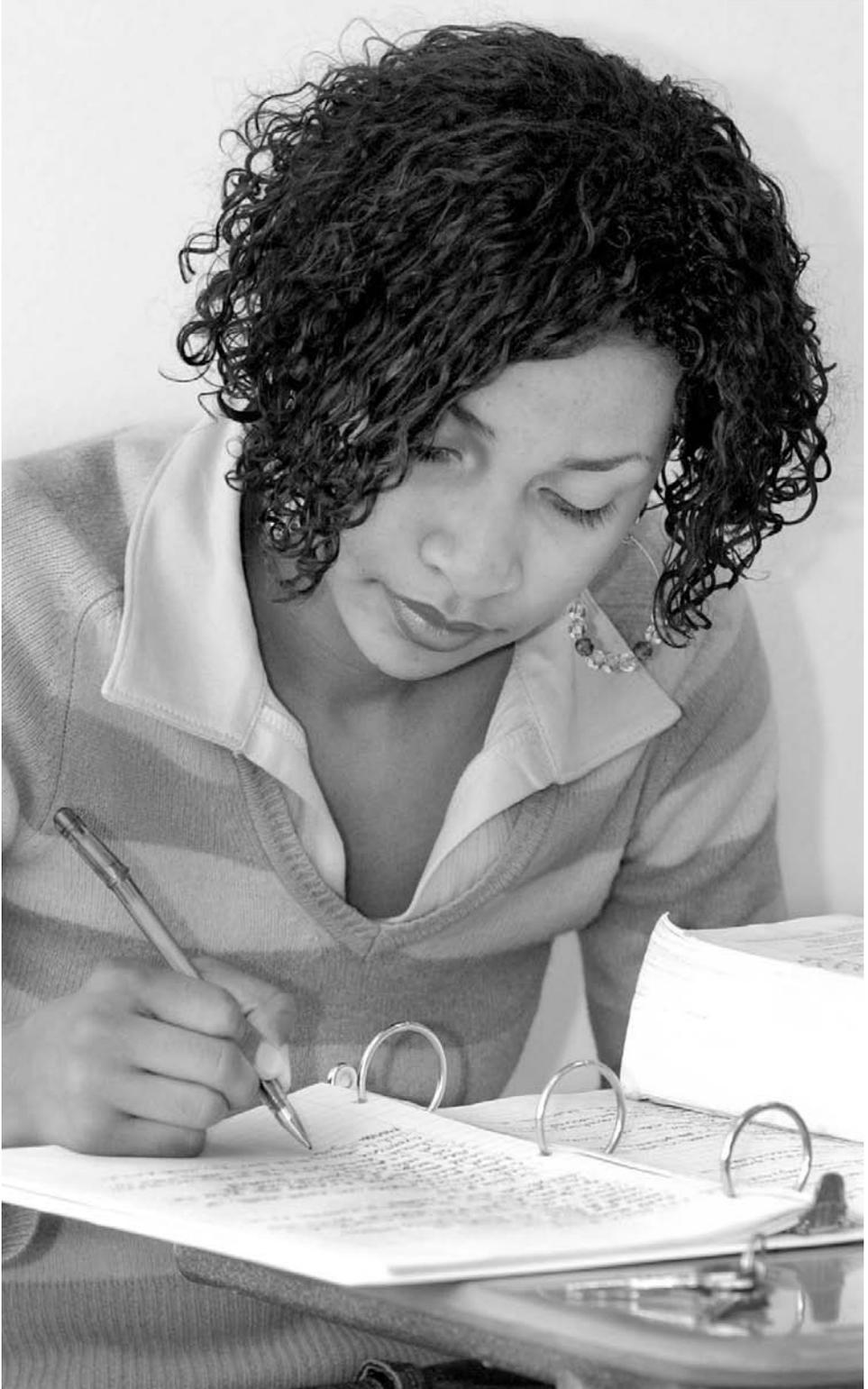
\*Marketing students concentrating in professional sales should make the following course substitution

MKTG 312, 410, or 466 for MKTG 360, Junior Year, Second Semester

MKTG 315 for Marketing Elective, Senior Year, First Semester

MKTG 450 for Marketing Elective, Senior Year, Second Semester





# College of Education

**Dean:** Verjanis A. Peoples

The College of Education offers programs designed to prepare educational leaders who become teachers, administrators, and clinical practitioners. The Teacher Education Programs at the initial and advanced levels are accredited by the National Council for Accreditation of Teacher Education, and all educational programs are approved by the Louisiana Department of Education and Southern Association of Colleges and Schools. In addition, the college is an active member of the American Association of Colleges for Teacher Education and Colleges of Academic Deans from Research Institutions (CADREI).

The college consists of three departments, Behavioral Studies, Educational Leadership, and Curriculum and Instruction. Centers dedicated to research, technology, and professional development are also housed in the College of Education. The Southern University Laboratory School serves as a primary site for clinical/field experiences of students in the college. Undergraduate degrees offered are Bachelor of Arts in early childhood education, Bachelor of Arts in Middle School Education, Bachelor of Arts in elementary education, Bachelor of Music Education, Bachelor of Arts in French education, Bachelor of Arts in Spanish education, Bachelor of Science in agricultural education, Bachelor of Arts in English education, Bachelor of Science in mathematics education Bachelor of Science in general science education, Bachelor of Arts in social studies education, Bachelor of Science in biology education, Bachelor of Science in chemistry education, Bachelor of Science in physics education, Bachelor of Science in computer science education, and Bachelor of Science in therapeutic recreation and leisure studies. Eight graduate degrees are offered, Master of Education in Educational Leadership, Masters of Art in counselor education, Master of Arts in mental health counseling, Master of Education in Elementary Education, Master of Education in secondary education, Master of Science in therapeutic recreation, Master of Education in Special Education and the Doctor of Philosophy in Special Education. For more information on the graduate programs consult the Southern University Graduate School Catalog.

Graduates of the college's teacher education program are critical thinking professionals who model best practices, and engage learners from multicultural and global perspectives. Education graduates are expected to demonstrate knowledge of the major concepts, principles, theories, values, methods of inquiry, and uses of technology in the content they will teach. They also are expected to show understanding of relationships between the technical (pedagogical and behavior management techniques) and normative (social, political, and cultural) aspects of schooling. Additionally, they show evidence of attitudes and values consistent with accepted modes of behavior in American society.

## THE COUNCIL ON TEACHER EDUCATION

The Council on Teacher Education is composed of representatives from related academic areas of the University. The council reviews policies pertaining to the training and the certification of teachers. Further, it is the responsibility of the council to maintain a balance between professional preparation, general cultural attainment, and mastery of the subject content field in each teacher education curriculum. All policies reviewed by the council are subject to the approval of the University administration.

## TEACHER CERTIFICATION

Southern University College of Education is approved by the Louisiana Department of Education and NCATE for the professional preparation of teachers. Students planning to teach must enroll in the College of Education and follow an approved program of study. In addition, students who wish to be certified to teach in the state of Louisiana must pass the appropriate PRAXIS examinations required by the state of Louisiana prior to teacher education, PRAXIS I, and prior to beginning in student teaching, PRAXIS II. Students may use a score of 22 on ACT or SAT combined verbal and math score of 1030 in lieu of PRAXIS I scores.

Teacher education programs are designed to follow the curriculum guidelines set by the college as well as those set by the appropriate professional organizations and learned societies in education.

**ALTERNATE CERTIFICATION**

The College of Education, through the Louisiana Department of Education, offers a Non-Masters Alternate Certification Program, which was designed with the intent of augmenting the number of certified teachers in the State of Louisiana. With the goal of making the pursuit of certification more attractive to individuals who already hold the bachelor’s degree, but not certification, the program has been redesigned so that course work can be completed in one year. The program requires a one-year internship.

Candidates must satisfy admission requirements stipulated by Southern University and must be officially admitted to the Alternate Certification Program before pursuing any coursework.

Candidates for admission to the program must have the bachelor’s degree from a regionally accredited institution, a cumulative grade point average of 2.20 with regular admission or 2.50 with provisional admission, pass PRAXIS I or already possess a graduate degree, and candidates must pass the PRAXIS content specific exam and have a cumulative 2.50 average in order to be certified.

**ADMISSION REQUIREMENTS**

Admission to the College of Education is open to students who (a) successfully complete the University College Program, (b) transfer from other colleges on the SUBR campus, (c) transfer from the New Orleans or Shreveport campuses, (d) transfer from other approved colleges and universities, or (e) qualify to enter an alternate teacher certification program.

Matriculation through the College of Education is a four-level process predicated upon successful completion of the following requirements:

**LEVEL I – ADMISSION TO COLLEGE OF EDUCATION**

Students are eligible for admission to the College of Education when they have met the following requirements.

- Completed and returned the application for admission to the College of Education with biographical data form.
- Completed Candidate Disposition Scale.
- Candidate must have completed the following general education courses with a grade of “C” or better in English 110 and English 111 and a cumulative grade point average of 2.2 on a 4-point scale
 

English 110/111	.6 hours
Mathematics	.6 hours
Science	.6 hours
History	.6 hours
Health and P E	.2 hours
Seminar in Education	.2 hours
- Obtained score of “Pass” on the Academic Integrity Screen (AIS).
- Obtained ACT score greater than 17.
- Passed required examination-(PRAXIS I or ACT score of 22 or SAT score of 1030).
- Successfully completed related course-embedded assessment tasks.
- Passed the Oral and Writing Proficiency Examinations.

**LEVEL II – ADMISSION TO TEACHER EDUCATION**

Students are eligible for admission to teacher education when they have met the following requirements:

- Completed and returned application for admission to Level II and submit updated biographical data form.
- Completed the following remaining general education courses and attain a cumulative grade point average of 2.50 on a 4.0 scale:
 

English	.9 credits
English Literature	.6 hours
Social Science	.6 hours

Science . . . . .	.6 hours
Arts . . . . .	.3 hours
Humanities . . . . .	.3 hours

- Achieved acceptable rating on Candidate Disposition Scale (CDS).
- Completed 120 clock hours of clinical field experiences.
- Possess basic technology integration skills.
- Demonstrated appropriate knowledge of the College of Education’s Conceptual Framework.
- Passed Praxis Specialty Content Examination(s).
- Passed Praxis Principles of Learning and Teaching (PLT).
- Successfully completed related course-embedded tasks.

**LEVEL III – ADMISSION TO STUDENT TEACHING**

Students are eligible for student teaching when they have met the following requirements:

- Completed and returned application for admission to student teaching, with updated biographical data form.
- Removed all deficiencies attendant to Levels I and II.
- Maintained a cumulative GPA of at least 2.50 on a 4.0 scale in the completion of all courses, including subject major courses (with no more than 6 hours remaining during the student teaching experience).
- Demonstrated evidence of increasing teacher candidate knowledge of technology integration.
- Demonstrated appropriate level of understanding of the College of Education’s Conceptual Framework.
- Achieved acceptable rating on the Candidate Disposition Scale (CDS).
- Achieved a “Pass” rating on the Academic Integrity Scale (AIS).
- Successfully complete all course-embedded assessment tasks.
- Passed all parts of required PRAXIS exams for specialty area

During student teaching experiences each candidate must complete a total of 180 clock hours of practice teaching experience before the end of the semester and document that experience through the Portfolio housed on PASS-PORT.

**LEVEL IV – POST PROGRAM COMPLETER STATUS (1ST YEAR PROFESSIONAL)**

- Acceptable performance on the Louisiana Teachers Assistance and Assessment Program
- Graduate Satisfaction of New Teacher Support Website
- Employer Rating Survey
- Graduate Satisfaction Survey
- Acceptable impact on K-12 student learning gains

**DEGREE REQUIREMENTS**

Degrees in the College of Education, with eligibility for certification by the Louisiana Department of Education, are conferred when the following conditions have been met:

- Satisfaction of degree requirements (Levels I, II, III, and IV).

Degrees in the College of Education for students planning to pursue out-of-state certification, post baccalaureate certification, or related graduate degree programs are conferred when the following conditions have been met:

- Completion of degree requirements (Level I-IV).
- Successful Passing scores on PRAXIS examinations (PPST, PLT, Content).

- Passing all required courses with a GPA of 2.5 or higher with a minimum of 124 semester hours. No grade of less than a C will be included the professional hours or the subject matter content wherein the candidate is seeking certification.

### **FRESHMAN SEMINAR**

Students are required to take CRIN 205 during the first year of matriculation at Southern University to meet graduation requirements. In addition, transfer students must adhere to the following:

- Students who have earned 24 credit hours or less at another institution are required to take freshman seminar or its equivalent;
- Students who have earned more than 24 credit hours from another institution are not required to take freshman seminar as a requirement for graduation.

## **Department of Behavioral Studies**

**Chair:** Harry Albert

**Professors:** Harry Albert, Jacquelin Jacobs, Ivory Toldson

**Associate Professors:** Donald Anderson, Roxanne Davidson, Kenneth O'Rourke

**Instructor:** Victoria Banks

The Department of Behavioral Studies administers two master's degree programs in school counseling and mental health counseling. Additionally, the department offers undergraduate service courses in the area of psychological foundations of education. For further information about the graduate program, consult the Southern University Graduate School Catalog.



## Department of Curriculum and Instruction

**Chair:** James A. Taylor

**Professors:** Thelma Deamer, Robert Kelly, Eva Kleinpeter, VerJanis A Peoples, Atley D. Walker

**Associate Professors:** James A. Taylor, Curtis Mustiful

**Assistant Professors:** G. Colleen Collins, Gertie M. Davis, James Dillon, Martha Jallim Hall,  
Louis Hightower, Diana F. Kelly, Patrica Melson, Sonya Miller, Alita Robertson,  
Felicia Rochon, Luria Stubblefield

**Instructors:** Brenda Brown, Joseph Hilstock, Mary Rideau, Rosie Turner, Jeryl Williams

The programs in the Department of Curriculum and Instruction are designed to prepare teachers and other school specialists for teaching and learning, using the conceptual framework of an integrative approach to Professional Teacher Preparation.

The elementary education program is designed to provide concentrations for students who plan to become certified teachers in grades 1-8 and for students who want to specialize in early childhood education. See advisors for specifics on course variations.

The secondary education program is designed to prepare teachers for grades 6-12 or \*K-12 in one or more of the following specialty areas:

English	Physics	General Science
*French	Computer Science	Mathematics
*Spanish	Chemistry	Social Studies
Biology	*Health and Physical Education	

Therapeutic recreation and leisure studies is an allied health care profession which utilizes recreational activities and programming and leadership structures to develop, maintain, or rehabilitate clients to their optimal level of functioning.

The program instills the professional competencies and self-confidence which students need to become professionals. Theoretical knowledge together with practical applications and guided reflections on these experiences are integral parts of the instructional process.

Students are admitted to the program of study after they have completed the Basic Freshman Studies Program. However, students should immediately meet with an advisor at the end of their second semester. Transfer students should meet with an advisor immediately upon admission. Therapeutic recreation and leisure studies courses are available once a year. Failure to consult with academic advisors could jeopardize timely progress through the program of study.

The Bachelor of Music Education degree is offered with concentrations in either voice and piano or instrumental. Students in teacher education may not enroll in student teaching until all core music courses are satisfied.

**BACHELOR OF ARTS IN EARLY CHILDHOOD****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
English Composition	ENGL 110	3	English Composition	ENGL 111	3
College Mathematics I	MATH 130	3	College Mathematics II	MATH 131	3
Biology Lecture	BIOL 104	3	Biology Lecture	BIOL 105	3
Biology Lab	BIOL 106	1	Biology Lab	BIOL 107	1
American History	HIST 104	3	American History	HIST 105	3
Seminar in Education	CRIN 205	2	Principles of Education	CRIN 211	3
Physical Education Activity Course	PHED	1			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
World Literature	ENGL 201	3	African American Literature	ENGL 203	3
Techniques of Speech	SPTH 210	3	Informal Geometry	MATH 205	3
Physical Science	PHYS 101	4	Child Psychology for Teachers	BHVS 230	3
Concepts of Mathematics	MATH 204	3	Introduction to Philosophy or Introduction to Logic	PHIL 200 PHIL 210	3
Educ. Psychology for Teachers	BHVS 220	3	Survey of Students with Disabilities	SPED 299	3
Understanding the Arts	ARTS 200	3	Computer Literacy for Teachers	CRIN 212	3
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Art in the Elementary School	CRIN 315	3	Early Childhood Social Studies Methods	CRIR 320	3
Early Childhood Language Arts Methods	CRIN 321	3	Early Childhood Math Methods	CRIR 325	3
Multicultural Education	CRIR 323	3	Early Childhood Reading Methods	CRIR 327	3
Classroom Management	CRIR 328	3	Diagnosis & Correction of Reading Difficulties	CRIN 349	3
Introduction to the Developing the Young Child	CRIN 360	3	Fundamentals of Music	MUSC 327	3
Practicum in Early Childhood Ed.	CRIN 361	3	Evaluation Procedures	CRIN 402	3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Early Childhood Science Methods	CRIR 326	3	Student Teaching	CRIN 441	9
Math for Early Childhood and Elementary Teachers	CRIN 329	3	Service Learning		3
Children's Literature	CRIN 352	3			
Organization & Administration of Early Childhood Education Prog.	CRIN 470	3			
Methods of Elem/Secondary P.E.	PHED 443	3			
Nutrition for Children	FCSC 433	3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>12</b>

**BACHELOR OF ARTS IN ELEMENTARY EDUCATION (1-5)****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
English Composition	ENGL 110	3	English Composition	ENGL 111	3
College Mathematics I	MATH 130	3	College Mathematics II	MATH 131	3
General Biology Lecture	BIOL 104	3	General Biology Lecture	BIOL 105	3
General Biology Lab	BIOL 106	1	General Biology Lab	BIOL 107	1
American History	HIST 104	3	American History	HIST 105	3
Seminar in Education	CRIN 205	2	Principles of Education	CRIN 211	3
Principles of Health or 2 P.E. Courses	HLTH 110 PHED	2	Principles of Geography	GEOG 221	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>19</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Chemistry	CHEM 128	3	Physical Science	PHYS 101/102	4
Understanding the Arts	ARTS 200	3	Informal Geometry	MATH 205	3
World Literature	ENGL 201	3	Introduction to Sociology	SOCL 210	3
Concepts of Elementary Math	MATH 204	3	African American Literature	ENGL 203	3
Computer Literacy for Teachers	CRIN 212	3	Child Psychology for Teachers	BHVS 230	3
Educ. Psychology for Teachers	BHVS 220	3	Survey of Students with Disabilities	SPED 299	3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>19</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Introduction to Philosophy or Introduction to Logic	PHIL 200 PHIL 210	3	Art in the Elementary School	CRIN 315	3
Techniques of Speech	SPTH 210	3	Classroom Management	CRIR 328	3
Louisiana History	HIST 230	3	Elem. Social Studies Methods	CRIN 330	3
Multicultural Education	CRIR 323	3	Elem. Reading Methods	CRIN 337	3
Fundamental of Music	MUSC 327	3	Practicum in Reading	CRIN 353	3
Diagnosis and Correction of Reading Difficulties	CRIN 349	3	Methods in Elem. & Sec. Phy. Ed.	PHED 443	3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Math for Early Childhood & Elementary Teachers	CRIN 329	3	Student Teaching	CRIN 443	9
Elem. Language Arts Methods	CRIN 331	3	Service Learning		3
Elem. Mathematics Methods	CRIR 335	3			
Elem. Science Methods	CRIR 336	3			
Math Activities for Elem. School Teachers	CRIN 357	3			
Evaluation Procedures	CRIN 402	3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>12</b>

**BACHELOR OF ARTS IN MIDDLE GRADES EDUCATION (4 - 8)****MATHEMATICS & SCIENCE****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
English Composition I	ENGL 110	3	English Composition II	ENGL 111	3
College Mathematics I	MATH 130	3	College Mathematics II	MATH 131	3
American History	HIST 104		American History	HIST 105	
or History of Civilization	HIST 114	3	or History of Civilization	HIST 115	3
Biology Lecture	BIOL 104	3	Biology Lecture	BIOL 105	3
Biology Lab	BIOL 106	1	Biology Lab	BIOL 107	1
Seminar in Education	CRIN 205	2	Principles of Education	CRIN 211	3
Principles of Health or	HLTH 110	2	Computer Literacy for Teachers	CRIN 212	3
Physical Ed. Activity	PHED				
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>19</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Applied English Grammar	ENGL 305	3	Linear Algebra	MATH 233	3
Techniques of Speech	SPTH 210	3	Adolescent Psychology		
Educ. Psychology for Teacher	BHVS 220	3	for Teachers	BHVS 240	3
Concepts of Elem. Math	MATH 204	3	Survey of Students		
Principles of Geography	GEOG 221	3	with Disabilities	SPED 299	3
Physical Science	PHYS 101/102	4	World Literature	ENGL 201	3
			Informal Geometry	MATH 205	3
			Understanding the Arts	ARTS 200	3
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Introduction to Philosophy	PHIL 200		Earth Science	PHYS 201	4
or Introduction to Logic	PHIL 210	3	Louisiana History	HIST 230	3
Calculus I	MATH 264	4	Classroom Management	CRIR 328	3
General Chemistry	CHEM 132	3	Middle School Social		
Organization and Admin. of			Studies Methods	CRIN 340	3
Middle School Programs	CRIN 317	3	Middle School Reading Methods	CRIN 347	3
Evaluation Procedures	CRIN 402	3	Diagnosis & Correction of		
			Reading Difficulties	CRIN 349	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>19</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Art in the Elementary School	CRIN 315	3	Observation of Student Teachers		
Multicultural Education	CRIR 323	3	in Middle Schools	CRIN 445	9
Middle School Language			African American		
Arts Methods	CRIN 341	3	Experience Elective		3
Middle School Math Methods	CRIN 345	3	Service Learning		3
Middle School Science Mthds.	CRIN 346	3			
Methods in Elem. & Sec. P.E.	PHED 443	3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>15</b>



**BIOLOGY****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
General Biology Lec.	BIOL 108		General Biology Lecture	BIOL 109	
General Biology Lab	BIOL 108	4	General Biology Lab	BIOL 109	4
American History	HIST 104	3	American History	HIST 105	3
Pre Calculus I	MATH 135	3	Pre Calculus II	MATH 140	3
Seminar in Education	CRIN 205	2	Understanding the Arts	ARTS 200	3
Principles of Health or P.E. Activity Elective	HLTH 110 PHED	2	Principles of Education	CRIN 211	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>19</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Elements of Physics	PHYS 141	4	Botany (Non-Vascular)	BIOL 210	4
Intro to African American Lit.	ENGL 203	3	Principles of Economics	ECON 200	3
Educ. Psychology for Teachers	BHVS 220	3	Adolescent Psy. for Teachers	BHVS 240	3
Zoology	BIOL 201	4	Survey of Students with Disabilities	SPED 299	3
Techniques of Speech	SPTH 210	3	Computer Literacy for Teachers	CRIN 212	3
			Multicultural Education	CRIR 323	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>19</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
American Government	POLS 200	3	Introduction to Philosophy or Introduction to Logic	PHIL 200 PHIL 210	3
General Microbiology	BIOL 233	4	Genetics	BIOL 350	4
Botany (Vascular)	BIOL 310	4	Techniques of Tchg. Biological and Physical Sciences I	CRIN 420	3
Classroom Management	CRIR 328	3	Secondary Teaching Focus Areas		5
Teaching Reading in the Secondary School	CRIN 495	3	<b>TOTAL</b>		<b>15</b>
<b>TOTAL</b>		<b>17</b>			

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Ecology	BIOL 404	4	Student Teaching	CRIN 447	9
Evaluation Procedures	CRIN 402	3	Service Learning		3
Techniques of Teaching Biological and Physical Sciences II	CRIN 424	3			
Secondary Teaching Focus Area		5	<b>TOTAL</b>		<b>12</b>
<b>TOTAL</b>		<b>15</b>			

**CHEMISTRY****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Biology Lecture	BIOL 104	3	Calculus II	MATH 265	4
Biology Lab	BIOL 106	1	General Chemistry Lec.	CHEM 132	3
American History	HIST 104	3	General Chemistry Lab	CHEM 112	1
Seminar in Education	CRIN 205	2	American History	HIST 105	3
Calculus	MATH 264	4	Principles of Education	CRIN 211	3
Principles of Health or P.E. Activity	HLTH 110 PHED	2			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>17</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Understanding the Arts	ARTS 200	3	General Chemistry Lec.	CHEM 133	3
Intro. to African American Lit.	ENGL 203	3	General Chemistry Lab	CHEM 113	1
Techniques of Speech	SPTH 210	3	Introduction to Philosophy or Introduction to Logic	PHIL 200 PHIL 210	3
Elements of Physics	PHYS 141	4	American Government	POLS 200	3
Educ. Psychology for Teachers	BHVS 220	3	Adolescent Psy. for Teachers	BHVS 240	3
Computer Literacy for Teachers	CRIN 212	3	Survey of Students with Disabilities	SPED 299	3
			Multicultural Education	CRIR 323	3
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>19</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Tchg. Read. in the Sec. Sch.	CRIN 495	3	Organic Chemistry	CHEM 231	3
Classroom Management	CRIR 328	3	Physical Chemistry Lec.	CHEM 312	3
Organic Chemistry	CHEM 230	3	Physical Chemistry Lab	CHEM 314	1
Quantitative Analysis	CHEM 242	3	General Biochemistry Lec.	CHEM 340	3
Quantitative Analysis	CHEM 243	1	General Biochemistry Lab	CHEM 342	1
Evaluation Procedures	CRIN 402	3	Tech. of Teaching Biological and Physical Sciences I	CRIN 420	3
Principles of Economics	ECON 200	3	Secondary Teaching Focus Area		5
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>19</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
General Biochemistry	CHEM 341	3	Student Teaching	CRIN 447	9
General Biochemistry	CHEM 343	3	Service Learning		3
Tech. of Teaching Biological and Physical Sciences II	CRIN 424	3			
Inorganic Chemistry	CHEM 443	3			
Secondary Teaching Focus Area		5			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>12</b>

**COMPUTER SCIENCE****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Biology Lecture	BIOL 104	3	American History	HIST 105	3
Biology Lab	BIOL 106	1	or History of Civilization	HIST 115	
American History	HIST 104	3	General Chemistry Lecture	CHEM 132	3
or History of Civilization	HIST 114		General Chemistry Lab	CHEM 112	1
Seminar in Education	CRIN 205	2	Principles of Education	CRIN 211	3
Linear Algebra	MATH 233	3	Calculus	MATH 264	4
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>17</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Principles of Health	HLTH 110		Computer Program II	CMPS 191	3
or Two Hours of P.E.	PHED	2	Intro. to African American Lit.	ENGL 203	3
Computer Program I	CMPS 190	3	Adolescent Psy. for Teachers	BHVS 240	3
Understanding the Arts	ARTS 200	3	Survey of Students		
Introduction to Philosophy	PHIL 200		with Disabilities	SPED 299	3
or Introduction to Logic	PHIL 210	3	Multicultural Education	CRIR 323	3
Educ. Psychology for Teachers	BHVS 220	3	Secondary Teaching Focus Area		3
Secondary Teaching Focus Area		3			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Discrete Structures	CMPS 200	3	Principles of Economics	ECON 200	3
Techniques of Speech	SPTH 210	3	American Government	POLS 200	3
Secondary School Methods	CRIN 324	3	Data Structures	CMPS 201	3
Classroom Management	CRIR 328	3	File Management	CMPS 202	3
Evaluation Procedures	CRIN 402	3	Computer Language	CMPS 300	3
Teaching Reading in			Methods and Materials in		
the Sec. School	CRIN 495	3	Computer Science	CRIN 437	3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Computer Organization	CMPS 302	3	Student Teaching	CRIN 447	9
Digital Data Networks	CMSP 334	3	Service Learning		3
Java	CMPS 371	3			
System Analysis and Design	CMPS 415	3			
Data Management	CMPS 420	3			
Secondary Teaching Focus Area		4			
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>12</b>

**ENGLISH EDUCATION****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
English Composition	ENGL 110	3	English Composition	ENGL 111	3
College Mathematics I	MATH 130	3	College Mathematics II	MATH 131	3
General Biology Lec.	BIOL 104	3	General Biology Lecture	BIOL 105	3
American History	HIST 104	3	American History	HIST 105	3
Seminar in Education	CRIN 205	2	Introduction to Literature	ENGL 200	3
Principles of Health or P.E. Activity	HLTH 110 PHED	2	Principles of Education	CRIN 211	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>18</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Understanding the Arts	ARTS 200	3	Physical Science	PHYS 101/102	4
Techniques of Speech	SPTH 210	3	Adolescent Psy. for Teachers	BHVS 240	3
Introduction to Philosophy or Introduction to Logic	PHIL 200 PHIL 210	3	Computer Literacy for Teachers	CRIN 212	3
Educ. Psychology for Teachers	BHVS 220	3	Multicultural Education	CRIR 323	3
English Literature I	ENGL 308	3	Survey of Students with Disabilities	SPED 299	3
Applied English Grammar	ENGL 305	3	Principles of Economics	ECON 200	3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>19</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
History of the English Language	ENGL 433	3	African American Literature	ENGL 313	3
American Literature I	ENGL 310	3	American Government	POLS 200	3
Classroom Management	CRIR 328	3	American Literature II	ENGL 311	3
Teaching Reading in the Secondary School	CRIN 495	3	Advanced Writing	ENGL 401	3
Secondary Focus Area		4	English Literature II	ENGL 309	3
<b>TOTAL</b>		<b>16</b>	Methods and Materials in Secondary School English	ENGL 422	3
			<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Evaluation Procedures	CRIN 402	3	Student Teaching	CRIN 447	9
Methods Elective	CRIN	3	African American Experience Outside English		3
Chaucer or Milton	ENGL 470 ENGL 480	3	Service Learning		3
Secondary Focus Area		6	<b>TOTAL</b>		<b>15</b>
<b>TOTAL</b>		<b>15</b>			

**FRENCH****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	General Biology Lecture	BIOL 105	3
General Biology Lecture	BIOL 104	3	American History	HIST 105	3
American History	HIST 104	3	Freshman Composition	ENGL 111	3
College Mathematics I	MATH 130	3	College Math II	MATH 131	3
Intermediate French	FREN 200	3	Intermediate French	FREN 201	3
Seminar in Education	CRIN 205	2	Principles of Education	CRIN 211	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>18</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Physical Science	PHYS 101	4	Principles of Economics	ECON 200	3
Understanding the Arts	ARTS 200	3	Techniques of Speech	SPTH 210	3
French Phonetics	FREN 202	3	Computer Literacy for Teachers	CRIN 212	3
Into to African American Lit.	ENGL 203	3	Intermediate French Conversation	FREN 219	3
Educ. Psychology for Teachers	BHVS 220	3	Adolescent Psy. for Teachers	BHVS 240	3
Principles of Health or P.E. Activity Elective	HLTH 100 PHED	2	Survey of Students with Dis.	SPED 299	3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Introduction to Reading in Francophone Literature	FREN 255	3	American Government	POLS 200	3
French Civilization	FREN 300	3	Survey of French Literature	FREN 302	3
Survey of French Literature	FREN 301	3	Advanced French Grammar	FREN 303	3
Classroom Management	CRIR 328	3	Evaluation Procedures	CRIN 402	3
Multicultural Education	CRIR 323	3	Methods and Materials in Teaching Foreign Languages	CRIN 427	3
Teaching Reading in the Secondary School	CRIN 495	3	Secondary Teaching Focus Areas		4
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>19</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Introduction to Philosophy or Introduction to Logic	PHIL 200 PHIL 210	3	Student Teaching	CRIN 447	9
Advanced French Conversation	FREN 380	3	Service Learning		3
Francophone Literature	FREN 403	3			
Second Language Methodology	FREN 460	3			
Secondary Teaching Focus Area		6			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>12</b>

**HEALTH AND PHYSICAL EDUCATION****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Mathematics	MATH 130	3	Mathematics	MATH 131	3
Science	BIO 104/105	4	Science	BIO 105/107	4
American History	HIST 104	3	American History	HIST 105	3
P.E. Activity Elective	PHED	1	Physical Fitness	PHED 100	1
Beginner's Swimming	PHED 122	1	Seminar in Education	CRIN 205	2
First Aid & CPR	HLTH 210	2	Intermediate Swimming	PHED 124	1
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>17</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Black American Lit.	ENGL 203	3	English Elective	ENGL	3
Intro. to Philosophy	PHIL 200	3	Principles of Economics	ECON 200	3
Understanding of Arts	ARTS 200	3	American Government	POLS 200	3
Principles of Education	CRIN 211	3	Ed. Computer Literature	CRIN 212	3
Education Psychology	BHVS 220	3	Child Psychology	BHVS 230	3
Techniques of Speech	SPTH 210	3	Foundation of H.P.E.	PHED 202	3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Foundation of Health & Safety	HLTH 240	2	Individual/Dual Sports	PHED 250	2
Team Sports	PHED 216	2	Intro. to Drug Abuse Ed.	HLTH 310	3
Folk & Square Dance	PHED 153	1	Personal & Community	HLTH 360	3
Methods and Materials in			Exercise Physiology	PHED 390	3
Elem./Sec. School Health	HLTH 304	3	Physical Science	PHS 101	4
Human Sexuality	HLTH 365	3	Methods in Elem./Sec.		
Kinesiology	PHED 381	3	School Physical Ed.	PHED 443	3
Adoles. Psychology	BHVS 240	3			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Motor Learning	PHED 362	3	Student Teaching	CRIN 447	9
Athletic Injuries	PHED 445	3	Service Learning		3
Org. & Adm. of H.P.E.	PHED 462	3			
Reading Across Grade Levels	CRIN 494	3			
Classroom Management	CRIR 328	3			
Tests & Measurement	PHED 420	3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>12</b>

**MATHEMATICS****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Calculus I	MATH 264	4	Calculus II	MATH 265	4
General Biology Lec.	BIOL 104	3	General Biology Lec.	BIOL 105	3
General Biology Lab.	BIOL 104	1	General Biology Lab.	BIOL 107	1
American History	HIST 104	3	American History	HIST 105	3
Understanding the Arts	ARTS 200	3	Principles of Education	CRIN 211	3
Seminar in Education	CRIN 205	2	Principles of Health or Physical Edu. Activity	HLTH 210 PHED	2
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>19</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intro. to Philosophy or Intro. to Logic	PHIL 200 PHIL 210	3	Topics in Geometry	MATH 250	3
Linear Algebra	MATH 231	3	Survey of Stu. w/Disabilities	SPED 299	3
American Government	POLS 200	3	Adolescent Psychology	BHVS 240	3
Educ. Psychology/Teachers	BHVS 220	3	Elementary Physics	PHYS 141	4
Computer Literacy	CRIN 212	3	Multicultural Education	CRIR 323	3
Intro. to African Amer. Lit.	ENGL 203	3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>16</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Classroom Management	CRIR 328	3	Methods and Materials in Teaching		
Stat. for Math. & Engr.	MATH 276	3	Sec. School Math	CRIN 423	3
Discrete Mathematics	MATH 379	3	Calculus III	MATH 364	4
Secondary School Rd.	CRIN 495	3	Principles of Economics	ECON 200	3
Modern Algebra	MATH 330	3	History of Mathematics	MATH 401	3
Evaluation Procedures	CRIN 402	3	Secondary Teaching Focus Area		5
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Geometry	MATH 482	3	Student Teaching	CRIN 447	9
Principles of Analysis	MATH 483	3	Service Learning		3
Techniques of Speech	SPTH 210	3			
Teaching Mathematics in Secondary Schools	CRIN 425	3			
Secondary Teaching Focus Area		5			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>12</b>

**PHYSICS****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
General Biology Lec.	BIOL 104	3	General Biology Lecture	BIOL 105	3
General Biology Lab	BIOL 106	1	General Biology Lab	BIOL 107	1
American History	HIST 104	3	American History	HIST 105	3
Pre Calculus I	MATH 264	4	Pre Calculus II	MATH 265	4
Seminar in Education	CRIN 205	2	Principles of Education	CRIN 211	3
P.E. Activity or Principles of Health	PHED HLTH 110	2			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Elements of Physics	PHYS 141	4	Elements of Physics	PHYS 142	4
Introduction to Philosophy or Introduction to Logic	PHIL 200 PHIL 210	3	Discovery of Physics	PHYS 145	3
Understanding the Arts	ARTS 200	3	American Government	POLS 200	3
Intro to African American Lit.	ENGL 203	3	Computer Literacy for Teachers	CRIN 212	3
Techniques of Speech	SPTH 210	3	Adolescent Psy. for Teachers	BHVS 240	3
Educ. Psychology for Teachers	BHVS 220	3	Survey of Students with Disabilities	SPED 299	3
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>19</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
General Physics I	PHYS 221	5	Principles of Economics	ECON 200	3
Multicultural Education	CRIR 323	3	General Physics II	PHYS 222	5
Classroom Management	CRIR 328	3	Intermediate Physics I	PHYS 251	5
Evaluation Procedures	CRIN 402	3	Techniques of Tchg. Biol. and Physical Sciences I	CRIN 420	3
Tchg. Read. in the Sec. Sch.	CRIN 495	3	Secondary Teaching Focus Areas		3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>19</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Modern Physics	PHYS 271	4	Student Teaching	CRIN 447	9
Experimental Physics I	PHYS 341	3	Service Learning		3
Techniques of Tchg. Biol. & Physical Sciences II	CRIN 424	3			
Secondary Teaching Focus Area		7			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>12</b>

**GENERAL SCIENCE****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Pre Calculus I	MATH 135	3	Pre Calculus II	MATH 140	3
General Biology Lec.	BIOL 104	3	General Biology Lecture	BIOL 105	3
General Biology Lab	BIOL 106	1	General Biology Lab	BIOL 107	1
American History	HIST 104	3	American History	HIST 105	3
Seminar in Education	CRIN 205	2	Principles of Education	CRIN 211	3
Principles of Health or P.E. Activity	HLTH 110 PHED	2			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
General Chemistry Lec.	CHEM 132	3	General Chemistry	CHEM 133	3
General Chemistry Lab	CHEM 112	1	General Chemistry	CHEM 113	1
Elements of Physics	PHYS 141	4	Elements of Physics	PHYS 142	4
Understanding the Arts	ARTS 200	3	Techniques of Speech	SPTH 210	3
Into to African American Lit.	ENGL 203	3	Computer Literacy for Teachers	CRIN 212	3
Educational Psy. for Teachers	BHVS 220	3	Adolescent Psy. for Teachers	BHVS 240	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>17</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Earth Science	PHYS 201	4	American Government	POLS 200	3
Survey of Student with Dis.	SPEL 299	3	Earth Science	PHYS 202	4
Principles of Microbiology Lec.	BIOL 230	3	Evaluation Procedures	CRIN 402	3
Principles of Microbiology Lab	BIOL 231	1	Techniques of Teaching Biological and Physical Sciences I	CRIN 420	3
Multicultural Education	CRIR 323	3	Tchg. Reading in the Sec. School	CRIN 495	3
Classroom Management	CRIR 328	3	Secondary Teaching Focus Areas		3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>19</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Principles of Economics	ECON 200	3	Student Teaching	CRIN 447	9
Introduction to Philosophy or Introduction to Logic	PHIL 200 PHIL 210	3	Service Learning		3
Techniques of Teaching Biological or Physical Sciences II	CRIN 424	3			
Secondary Teaching Focus Area		7			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>12</b>

**SOCIAL STUDIES****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
College Mathematics I	MATH 130	3	General Biology Lecture	BIOL 105	3
Biology Lecture	BIOL 104	3	General Biology Lab	BIOL 107	1
Biology Lab	BIOL 106	1	History of Civilization	HIST 115	3
History of Civilization	HIST 114	3	College Mathematics II	MATH 131	3
Seminar in Education	CRIN 205	2	General Psychology	PSYC 210	3
P.E. Activity or Principles of Health	PHED HLTH	2	Principles of Education	CRIN 211	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>19</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Physical Science	PHYS 101	4	Principles of Economics I	ECON 200	3
Understanding the Arts	ARTS 200	3	Intro. to African American Lit.	ENGL 201	3
World Literature	ENGL 201	3	Education Computer Literacy	CRIN 212	3
Techniques of Speech	SPTH 210	3	United States History	HIST 225	3
Educ. Psychology for Teachers	BHVS 220	3	Survey of Students with Disabilities	SPED 299	3
United States History	HIST 224	3	Adolescent Psy. for Teachers	BHVS 240	3
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
American Government	POLS 200	3	Intro. to Philosophy or Introduction to Logic	PHIL 200 PHIL 210	3 3
Principles of Economics II	ECON 210	3	Principles of Geography	GEOG 221	3
Cultural Geography	GEOG 210	3	Cultural Anthropology	SOCL 328	3
Multicultural Education	CRIR 323	3	Classroom Management Methods and Materials in Secondary School Social Studies	CRIR 328 CRIN 421	3 3
Evaluation Procedures	CRIN 402	3	European History	HIST 474	3
Teaching Reading in the Secondary Schools	CRIN 495	3	<b>TOTAL</b>		<b>18</b>
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Louisiana History	HIST 230	3	Student Teaching	CRIN 447	9
African American History	HIST 311	3	Service Learning		3
Louisiana Government and Politics	POLS 403	3			
Secondary Methods Electrive	CRIN	3			
Sociology of Education	SOCL 443	3			
European History	HIST 474	3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>12</b>

**SPANISH****Freshman Year**

FIRST SEMESTER				SECOND SEMESTER			
Course	No.	Cr.		Course	No.	Cr.	
Freshman Composition	ENGL 110	3		General Biology Lecture	BIOL 105	3	
General Biology Lec.	BIOL 104	3		American History	HIST 105	3	
College Mathematics I	MATH 130	3		Freshman Composition	ENGL 111	3	
American History	HIST 104	3		College Mathematics II	MATH 131	3	
Intermediate Spanish	SPAN 200	3		Intermediate Spanish	SPAN 201	3	
Seminar in Education	CRIN 205	2		Principles of Education	CRIN 211	3	
Principles of Health or P.E. Activities	HLTH 110 PHED	2					
<b>TOTAL</b>		<b>19</b>		<b>TOTAL</b>		<b>18</b>	

**Sophomore Year**

FIRST SEMESTER				SECOND SEMESTER			
Course	No.	Cr.		Course	No.	Cr.	
Physical Science	PHYS 101	4		Principles of Economics	ECON 200	3	
Understanding the Arts	ARTS 200	3		Techniques of Speech	SPTH 210	3	
Into to African American Lit.	ENGL 203	3		Computer Literacy for Teachers	CRIN 212	3	
Intermediate Spanish				Adolescent Psy. for Teachers	BHVS 240	3	
Conversation	SPAN 219	3		Intro of Readings in Hispanic Literature	SPAN 255	3	
Educ. Psych. for Teachers	BHVS 220	3		Survey of Stu. w/ Disabilities	SPED 299	3	
<b>TOTAL</b>		<b>16</b>		<b>TOTAL</b>		<b>18</b>	

**Junior Year**

FIRST SEMESTER				SECOND SEMESTER			
Course	No.	Cr.		Course	No.	Cr.	
Advanced Spanish	SPAN 300	3		American Government	POLS 200	3	
Spanish Civilization or Spanish-American Civilization	SPAN 302 SPAN 303	3		Intro to Spanish-American Lit.	SPAN 306/307	3	
Introduction to Spanish Lit.	SPAN 304/305	3		Spanish Phonetics	SPAN 350	3	
Classroom Management	CRIR 328	3		Evaluation Procedures	CRIN 402	3	
Multicultural Education	CRIR 323	3		Methods and Materials in Tchg. Foreign Lang. in Sec. Schs.	CRIN 427	3	
Teaching Reading in the Secondary School	CRIN 495	3		Secondary Teaching Focus Areas		4	
<b>TOTAL</b>		<b>18</b>		<b>TOTAL</b>		<b>19</b>	

**Senior Year**

FIRST SEMESTER				SECOND SEMESTER			
Course	No.	Cr.		Course	No.	Cr.	
Introduction to Philosophy or Introduction to Logic	PHIL 200 PHIL 210	3		Student Teaching	CRIN 447	9	
Advanced Spanish Composition and Conversation	SPAN 400	3		Service Learning		3	
Applied Spanish Linguistics	SPAN 403	3					
Second Language Methodology in Spanish	SPAN 460	3					
Secondary Teaching Focus Area		6					
<b>TOTAL</b>		<b>18</b>		<b>TOTAL</b>		<b>12</b>	

**BACHELOR OF SCIENCE IN THERAPEUTIC RECREATION AND LEISURE STUDIES****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
English Composition	ENGL 110	3	English Composition	ENGL 111	3
Natural Science Elective		4	Math	MATH	3
Math Elective	MATH	3	Natural Science Elective		4
PE Elective	PHED	1	History Sequence	HIST	3
History Sequence	HIST	3	Swimming Elective	PHED	1
Freshman Studies	FRMN 110	1	Freshman Studies	FRMN 111	1
			First Aid & Personal Safety	HLTH 210	2
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>17</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intro to Leisure	TRLS 200	3	Legal Foun. of Leisure	TRLS 245	3
Introduction to TR	TRLS 202	3	Field Work Seminar	TRLS 310	3
Human Anatomy-Phys	BIOL 223	4	TR Intervention Strategies	TRLS 293	3
General Psychology	PSYC 210	3	Computer Science Elective	CMPS	3
Literature Elective	ENGL	3	Humanities Elective		3
Arts Elective		3	Recreation Skills	TRLS 340	3
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Outdoor Recreation	TRLS 403	3	Management of Aquatics	TRLS 409	3
Principles of Leadership	TRLS 300	3	Social Recreation	TRLS 465	3
Teaching Adapted Aquatics	PHED 322	2	Coun. & Mgmt. of Camping	TRLS 401	3
Kinesiology	PHED 381	3	TR Assessment & Eval	TRLS 356	3
Gen. Program Planning	TRLS 301	3	Field Work	TRLS 311	3
Social Psychology	PSYC 342	3			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>15</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Developmental Psychology	PSYC 445	3	Internship	TRLS 411	6
TR Program Planning	TRLS 304	3	Service Learning		3
Management of Recreation Services	TRLS 402	3	Economics Elective	ECON	3
Adapted Physical Education	PHED 470	3			
Abnormal Psychology	PSYC 468	3			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>12</b>

TRLS courses are offered once a year. Students should consult an advisor in TRLS early.

**BACHELOR OF MUSIC EDUCATION (VOICE )****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman English	ENGL 110	3	Freshman English	ENGL 111	3
General Biology Lec	BIOL 104	3	General Bio. Lec/Lab	BIOL 105/106	4
Mathematics	MATH 130	3	Mathematics	MATH 131	3
Harmony	MUSC 102	3	Harmony	MUSC 103	3
Ear Training/Sight Sing	MUSC 104	1	Ear Training/Sight Sing	MUSC 105	1
Major Applied	MUSC 136	2	Major Applied	MUSC 137	2
Ensemble	124	1	Ensemble	125	1
Secondary Piano	MUSC 108	1	Secondary Piano	MUSC 109	1
Performance Class	MUSC 130	0	Performance Class	MUSC 131	0
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>18</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
World Literature I	ENGL 201	3	African American Lit.	ENGL 203	3
American History	HIST 104	3	American History	HIST 105	4
Seminar in Education	CRIN 205	2	Principles of Economics	ECON 200	3
Harmony	MUSC 202	3	Harmony	MUSC 203	3
Ear Training/Sight Sing	MUSC 204	1	Ear Training/Sight Sing	MUSC 205	1
Major Applied	MUSC 236	2	Major Applied	MUSC 237	2
Ensemble	224	1	Ensemble	225	1
Secondary Piano	MUSC 208	1	Secondary Piano	MUSC 209	1
Performance Class	MUSC 230	0	Performance Class	MUSC 231	0
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>19-20</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Physical Science Lec.	PHYS 101	3	Education Psychology	ENGL 220	3
America Government	POLS 200	3	Classroom Organ/Mang.	HIST 328	3
Principles of Education	CRIN 211	2	Music History & Lit.	ECON 250	3
Music Technology	MUSC 114	2	Counterpoint	MUSC 304	2
Form & Analysis	MUSC 302	2	Prin. of Teaching (Elem. Music)	MUSC 416	3
Major Applied	MUSC 336	2	Major Applied	MUSC 337	2
Ensemble	224	1	Ensemble	325	1
Choral Methods	MUSC 391	2	Performance Class/Recit.	MUSC 331	0
Performance Class	MUSC 330	0	Survey of Instrumnts	MUSC 314	1
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Adoles./Child Psych.	BHVS 230/240	3	Student Teaching	CRIN 448	9
Prin. of Teaching (Sec. Music)	HIST 416	3	Major Applied (Sr. Recital)	MUSC 437	3
Reading	CRIN 494	3	Service Learning		3
Music History & Lit.	MUSC 251	3			
Vocal Pedagogy	MUSC 402	2			
Choral Conducting	MUSC 418	2			
Major Applied	MUSC 436	2			
Ensemble	MUSC 424	1			
Performance Class/Recital	MUSC 430	0			
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>15</b>

**BACHELOR OF MUSIC EDUCATION (INSTRUMENTAL/PIANO )****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman English	ENGL 110	3	Freshman English	ENGL 111	3
General Biology Lec.	BIOL 104	3	General Bio. Lec/Lab.	BIOL 105/106	4
Mathematics	MATH 130	3	Mathematics	MATH 131	3
Harmony	MUSC 102	3	Harmony	MUSC 103	3
Ear Training/Sight Sing	MUSC 104	1	Ear Training/Sight Sing	MUSC 105	1
Major Applied	MUSC 120	2	Major Applied (P113)	MUSC 121	2
Ensemble	124	1	Ensemble	125	1
Secondary Piano	MUSC 108	1	Secondary Piano	MUSC 109	1
Performance Class	MUSC 130	0	Performance Class	MUSC 131	0
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>18</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
World Literature I	ENGL 201	3	African Amer. Lit.	ENGL 203	3
American History	HIST 104	3	American History	HIST 105	3
Seminar in Education	CRIN 205	2	Principles of Economics	ECON 200	3
Harmony	MUSC 202	3	Harmony	MUSC 203	3
Ear Training/Sight Sing	MUSC 204	1	Ear Training/Sight Sing	MUSC 205	1
Major Applied (212)	MUSC 220	2	Major Applied (P213)	MUSC 221	2
Ensemble	224	1	Ensemble	225	1
Secondary Piano	MUSC 208	1	Secondary Piano (235)	MUSC 209	1
Performance Class	MUSC 230	0	Performance Class	MUSC 231	0
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>17</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Physical Science Lec	ENGL 101	4	Educational Psychology	BHVS 220	3
American Government	POLS 200	3	Classroom Organ/Mang	CRIN 328	3
Principles of Education	CRIN 211	3	Music History & Lit.	ECON 250	3
Prin. of Teaching (Elem. Music)	MUSC 416	3	Counterpoint	MUSC 304	2
Form & Analysis	MUSC 302	2	Prin. of Teaching (Sec. Music)	CRIN 417	3
Major Applied (P312)	MUSC 320	2	Major Applied (P313)	MUSC 321	2
Ensemble	324	1	Ensemble	325	1
Strings Class	MUSC 315	1	Woodwinds Class	MUSC 318	1
Brasswind Class	MUSC 316	1	Percussion Class	MUSC 319	1
OR *Art of Accompanying	MUSC 317	2	*Piano Pedagogy	MUSC 371	2
Performance Class	MUSC 330	0	Performance Class/Recital	MUSC 331	0
<b>TOTAL</b>		<b>20</b>	<b>TOTAL</b>		<b>19</b>

\* Piano substitution for MUSC 315/316

\* Piano substitution for MUSC 315/316

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Adolescent/Child Psych.	BHVS 230/240	3	Student Teaching	CRIN 448	9
*Survey of Instruments	MUSC 314	2	Major Applied (Sr. Recital)	MUSC 437	3
Music Technology	MUSC 114	2	Service Learning		3
Reading	CRIN 494	3			
Music History & Lit.	MUSC 251	3			
Vocal Pedagogy	MUSC 402	2			
**Choral Conducting	MUSC 418/419	2			
Major Applied (P412)	MUSC 420	2			

**Senior Year -cont-**

Ensemble	MUSC 424	1		
Performance Class/Recital	MUSC 430	0	* Piano Substitution for MUSC 435	
Instrumental Methods			**Piano Substitution for MUSC 419	
OR Choral	MUSC 435/391	2		
Orchestration	MUSC 432	2		
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>	<b>15</b>



## ALTERNATE CERTIFICATION REQUIREMENT

Candidates must satisfy admission requirements stipulated by Southern University and must be officially admitted to the Alternative Certification Program before pursuing any course work.

## ALTERNATE CERTIFICATION PLAN

### Prescriptive Plan

Upon admission to the program, each candidate will be assigned a 3-member advisement team (two university faculty members, and one school mentor), who will assess each candidate's academic skills, knowledge of the conceptual framework, technology integration, professional disposition, and integrity at set points during each term of study. If the prescriptive plan is determined to be needed, then the team will design an appropriate plan. They will monitor the plan and report to the program coordinator. The plan is as follows:

1. A candidate with a cumulative GPA deficiency must take additional courses to meet the program completion requirement of 2.5.
  2. A candidate with deficiencies in the Learner and Learning Environment knowledge domain may be required to repeat a specific course, take an advanced course, and/or participate in additional focused field experiences depending on the identified needs of the individual candidate.
  3. A candidate with deficiencies in methodology may be required to complete additional courses, case studies, focused field experiences, and/or expand or revise Portfolio entries targeting content standards, technology integration, or other activities as deemed necessary.
  4. A candidate with internship deficiencies may be required to attend additional seminars, receive additional focused observation and mentoring and/or expand or revise Portfolio entries targeting content standards, technology integration, and other activities as deemed necessary.
- An individualized prescriptive plan will not exceed 9 semester hours of additional credit.

All courses are aligned with applicable empirically-based standards, emphasize collaboration between the university and the school district, and integrating field-based experiences with diverse populations.

## EARLY CHILDHOOD GRADES PK-3

### Summer School

Course	No.	Cr.
Educational Psychology for Classroom Teachers	BHVS 220	3
Classroom Management	CRIR 328	3
<b>TOTAL</b>		<b>6</b>

### Fall Semester

Course	No.	Cr.
Early Childhood Mathematics Methods	CRIR 325	3
Early Childhood Science Methods	CRIR 327	3
Internship in Teaching I	CRIN 450	3
<b>TOTAL</b>		<b>9</b>

### Spring Semester

Course	No.	Cr.
Early Childhood Social Studies	CRIR 320	3
Early Childhood Reading Methods	CRIR 327	3
Internship in Teaching II	CRIN 451	3
or Student Teaching	CRIN 441	3
<b>TOTAL</b>		<b>9 or 18</b>

**ELEMENTARY GRADES 1-5****Summer School**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Educational Psychology for Classroom Teachers	BHVS 220	3
Classroom Management	CRIR 328	3
<b>TOTAL</b>		<b>6</b>

**Fall Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Elementary Science Methods	CRIR 336	3
Elementary Mathematics Methods	CRIR 335	3
Internship in Teaching I	CRIN 450	3
<b>TOTAL</b>		<b>9</b>

**Spring Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Elementary Social Studies Methods	CRIN 330	3
Elementary Reading Methods	CRIN 337	3
Internship in Teaching II	CRIN 451	3
or Student Teaching	CRIN 443	9
<b>TOTAL</b>		<b>6 or 9</b>

**MIDDLE SCHOOL MATHEMATICS GRADE 4-8****Summer School**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Educational Psychology for Classroom Teachers	BHVS 220	3
Classroom Management	CRIR 328	3
Evaluation Procedures	CRIN 402	3
<b>TOTAL</b>		<b>9</b>

**Fall Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Methods and Materials for Teaching Secondary Math	CRIN 423	3
Teaching Reading in Secondary School	CRIN 495	3
Internship in Teaching I	CRIN 450	3
<b>TOTAL</b>		<b>9</b>

**Spring Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Middle School Math Methods	CRIN 345	3
Internship in Teaching II	CRIN 451	3
<b>TOTAL</b>		<b>6</b>

**MIDDLE SCHOOL GENERAL SCIENCE GRADES 4-8****Summer School**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Educational Psychology for Classroom Teachers	BHVS 220	3

Classroom Management	CRIR 328	3
Evaluation Procedures	CRIN 402	3
<b>TOTAL</b>		<b>9</b>

**Fall Semester**

Course	No.	Cr.
Techniques of Teaching Biological and Physical Science I	CRIN 420	3
Teaching Reading in Secondary School	CRIN 495	3
Internship in Teaching I	CRIN 450	3
<b>TOTAL</b>		<b>9</b>

**Spring Semester**

Course	No.	Cr.
Middle School Science Methods	CRIN 346	3
Internship in Teaching II	CRIN 451	3
<b>TOTAL</b>		<b>6</b>

**MIDDLE SCHOOL SOCIAL STUDIES GRADES 4-8****Summer School**

Course	No.	Cr.
Educational Psychology for Classroom Teachers	BHVS 220	3
Classroom Management	CRIR 328	3
Evaluation Procedures	CRIN 402	3
<b>TOTAL</b>		<b>9</b>

**Fall Semester**

Course	No.	Cr.
Middle School Social Studies Methods	CRIN 340	3
Teaching Reading in Secondary School	CRIN 495	3
Internship in Teaching I	CRIN 450	3
<b>TOTAL</b>		<b>9</b>

**Spring Semester**

Course	No.	Cr.
Methods and Materials in Social Studies	CRIN 421	3
Internship in Teaching II	CRIN 451	3
<b>TOTAL</b>		<b>6</b>

**BIOLOGY 6-12****Summer School**

Course	No.	Cr.
Educational Psychology for Classroom Teachers	BHVS 220	3
Classroom Management	CRIR 328	3
Evaluation Procedures	CRIN 402	3
<b>TOTAL</b>		<b>9</b>

**Fall Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Techniques in Teaching Biological and Physical Sciences I	CRIN 420	3
Teaching of Reading in the Secondary School	CRIN 495	3
Internship in Teaching I	CRIN 450	3
<b>TOTAL</b>		<b>9</b>

**Spring Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Techniques in Teaching Biological and Physical Sciences II	CRIN 424	3
Internship in Teaching II	CRIN 451	3
or Student Teaching	CRIN 447	9
<b>TOTAL</b>		<b>6 or 12</b>

**CHEMISTRY 6-12****Summer School**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Educational Psychology for Classroom Teachers	BHVS 220	3
Classroom Management	CRIR 328	3
Evaluation Procedures	CRIN 402	3
<b>TOTAL</b>		<b>9</b>

**Fall Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Techniques in Teaching Biological and Physical Sciences I	CRIN 420	3
Teaching of Reading in the Secondary School	CRIN 495	3
Internship in Teaching I	CRIN 450	3
<b>TOTAL</b>		<b>9</b>

**Spring Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Techniques in Teaching Biological and Physical Sciences II	CRIN 424	3
Internship in Teaching II	CRIN 451	3
or Student Teaching	CRIN 447	9
<b>TOTAL</b>		<b>6 or 15</b>

**GENERAL SCIENCE 6-12****Summer School**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Educational Psychology for Classroom Teachers	BHVS 220	3
Classroom Management	CRIR 328	3
Evaluation Procedures	CRIN 402	3
<b>TOTAL</b>		<b>9</b>

**Fall Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Techniques in Teaching Biological and Physical Sciences I	CRIN 420	3
Teaching Reading in the Secondary School	CRIN 495	3
Internship in Teaching I	CRIN 450	3
<b>TOTAL</b>		<b>9</b>

**Spring Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Techniques in Teaching Biological and Physical Sciences II	CRIN 424	3
Internship in Teaching II	CRIN 451	
or Student Teaching	CRIN 447	9
<b>TOTAL</b>		<b>6 or 12</b>

**MATHEMATICS EDUCATION 6-12****Summer School**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Educational Psychology for Classroom Teachers	BHVS 220	3
Classroom Management	CRIR 328	3
Evaluation Procedures	CRIN 402	3
<b>TOTAL</b>		<b>9</b>

**Fall Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Methods and Materials in the Teaching		
of Secondary Mathematics	CRIN 423	3
Teaching Reading in the Secondary School	CRIN 495	3
Internship in Teaching I	CRIN 450	3
<b>TOTAL</b>		<b>9</b>

**Spring Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Teaching Mathematics in Secondary School	CRIN 425	3
Internship in Teaching II	CRIN 451	3
or Student Teaching	CRIN 447	9
<b>TOTAL</b>		

**SOCIAL STUDIES 6-12****Summer School**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Educational Psychology for Classroom Teachers	BHVS 220	3
Classroom Management	CRIR 328	3
Evaluation Procedures	CRIN 402	3
<b>TOTAL</b>		<b>9</b>

**Fall Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Secondary School Methods	CRIN 324	3
Teaching Reading in the Secondary School	CRIN 495	3
Internship in Teaching I	CRIN 450	3
<b>TOTAL</b>		<b>9</b>

**Spring Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Techniques in Teaching Biological and Physical Sciences II	CRIN 424	3
Internship in Teaching II	CRIN 451	3
or Student Teaching	CRIN 447	9
<b>TOTAL</b>		<b>6 or 12</b>

**COMPUTER SCIENCE 7-12****Summer School**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Educational Psychology for Classroom Teachers	BHVS 220	3
Classroom Management	CRIR 328	3
Evaluation Procedures	CRIN 402	3
<b>TOTAL</b>		<b>9</b>

**Fall Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Secondary School Methods	CRIN 324	3
Teaching Reading in the Secondary School	CRIN 495	3
Internship in Teaching I	CRIN 450	3
<b>TOTAL</b>		<b>9</b>

**Spring Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Methods and Materials in Computer Science	CRIN 437	3
Internship in Teaching II	CRIN 451	3
or Student Teaching	CRIN 447	6
<b>TOTAL</b>		<b>6 or 9</b>

**MILD-MODERATE SPECIAL EDUCATION****Summer School**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Classroom Organization and Management for Children with Learning Problems	SPED 409	3
Survey of Students with Disabilities	SPED 299	3
Teaching Pre-Vocational Skills to Mild/Moderate Learners	SPED 418	3
<b>TOTAL</b>		<b>9</b>

**Fall Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Survey of Students with Disabilities	SPED 299	3
Measurement and Evaluation of Atypical Children	SPED 306	3
Methods of Teaching Academic Subjects to Children with Learning Problems	SPED 405	3
Internship in Teaching I	SPED 481	3
<b>TOTAL</b>		<b>9 or 12</b>

**Spring Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Survey of Students with Disabilities	SPED 299	3
Practicum: Measurement and Evaluation of Atypical Children	SPED 307	3
Internship in Teaching II or Student Teaching	SPED 482 CRIN 478	3 6
<b>TOTAL</b>		<b>9 or 12</b>

**GRADES K-12 (HEALTH & PHYSICAL EDUCATION)****Summer School**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Child Psychology	BHVS 230	3
Adolescent Psychology	BHVS 240	3
Classroom Management	CRIR 328	3
<b>TOTAL</b>		<b>9</b>

**Fall Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Test and Measurement	PHED 420	3
Methods of Elem. & Sec. School Physical Education	PHED 443	3
Internship in Teaching I	CRIN 450	3
<b>TOTAL</b>		<b>9</b>

**Spring Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Methods & Materials in Elementary and Secondary Health	HLTH 304	3
Reading across Grade Levels	CRIN 494	3
Internship in Teaching II or Student Teaching	CRIN 451 CRIN 448	3 9

**GRADES K-12****Summer School**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Educational Psychology for Classroom Teachers	BHVS 220	3
Classroom Management	CRIR 328	3
Evaluation Procedures	CRIN 402	3
<b>TOTAL</b>		<b>9</b>

**Fall Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Techniques of Teaching Biological and Physical Science I	CRIN 420	3
Teaching Reading in the Secondary School	CRIN 495	3
Internship in Teaching I	CRIN 450	3
<b>TOTAL</b>		<b>9</b>

**Spring Semester**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Techniques of Teaching Biological and Physical Science II	CRIN 424	3
Internship in Teaching II	CRIN 451	3
or Student Teaching	CRIN 447	9
<b>TOTAL</b>		<b>6 or 12</b>



## Department of Educational Leadership

**Chair:** Roy Jacobs

**Professor:** Roy Jacobs

**Assistant Professors:** Charles Bryant, Katina January, Carol McCree, Gussie Trahan

The Department of Educational Leadership offers the master of education in Educational Leadership in addition to a licensure program for the endorsement of Teacher Leaders. In accordance with the mission of the university, the Educational Leadership Department offers programs that will enable degree candidates to become educational leaders in a variety of school settings including, but not limited to, building level administrators (K-12), teacher leaders, central office supervisors, and upper-level administrators. The goal of this program is to produce principals and other school leaders who better match the needs of the school districts. The program is standard driven and addresses guidelines and benchmarks articulated by the Interstate School Leaders Licensure Consortium (ISLLC), Educational Leadership Consortium Council, Southern Regional Education Board (SREB), and Louisiana Standards for School Principals (LPS). For further information about the educational leadership program, consult the Southern University Graduate School Catalog.



## Division of Special Education

**Program Director:** Sheri Anderson

**Professors:** Vera Inez Daniels, Jimmy D. Lindsey

**Assistant Professor:** Sheri Anderson, Regina Patterson

The major aim of the special education program is the development of a core of experiences designed to foster comprehensive knowledge of human learning and the practical application of this knowledge to the remediation and management of learning difficulties relative to exceptional children and youth. The central theme that permeates the department's teacher education program is the development of learning specialists. The education component of the department is supplemented by observation and demonstration projects designed for the rehabilitation of exceptional children and youth.

The Department of Special Education offers one curriculum with concentration for the preparation of teachers for children with mild/moderate disabilities. The curriculum is designed to allow students to complete the course requirements for certification as stated by the Louisiana State Department of Education. In addition, the student must pass the Praxis Series Examination with an acceptable score as mandated by the Louisiana State Board of Elementary and Secondary Education.

The area of concentration is designed to provide students with special knowledge and skills in utilizing instructional strategies, classroom and behavioral management techniques, assessment procedures, and communication skills necessary for working with students, parents, paraprofessionals, and other professionals involved in educating students with and mild/moderate disabilities.

### BACHELOR OF SCIENCE IN SPECIAL EDUCATION

#### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Mathematics	MATH 130	3	Mathematics	MATH 131	3
General Biology	BIOL 104	4	General Biology	BIOL 105	4
American History	HIST 104	3	American History	HIST 105	3
Principle of Health	HLTH 110	2	Ed Computer Literacy	CRIN 212	3
PE Elective	PHED	1	PE Elective	PHED	1
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>17</b>

#### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Black American Literature	ENGL 203	3	World Lit. or English Elective	ENGL	3
Educational Psychology	BHVS 220	3	Adolescent Psychology	BHVS 240	
Principles of Geog.	GEOG 221	3	or Child Psychology	BHVS 230	3
Physical Science Elective		4	Understanding the Arts	ARTS 200	3
Principles of Education	CRIN 211	3	Social Science Elective		3
Seminar in Education	CRIN 205	2	Survey of Stu. with Disabilities	SPED 299	3
			Humanities 200 or 210	HUMN	3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

\*The undergraduate program for Special Education is scheduled to be phased out by July 2010.

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Character of Child.with M/M learning	SPED 301	3	Dia. & Prescriptive Reading	SPED 406	3
Reading Methods	CRIN 337	3	Measure & Eval. Practicum	SPED 307	3
Reading Practicum	CRIN 353	3	Mthds. of Teach. Basic Subj. or Mthds. of Teaching	SPED 405	3
Measurement & Eval.	SPED 306	3	Behavioral Approach Children	SPED 408	3
Behavior Disorders	SPED 403	3	Mthds. of Teach Child. w/ L&B	SPED 410	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Classroom Org. & Management	SPED 409	3	Student Teaching	SPED 478	9
Non-Behavioral Approach	SPED 411	3	Teach. Pre-Voc. Skills to M/M or Teach. Voc. Skills to M/M	SPED 418/419	3
Mainstreaming Practicum	SPED 417	3			
Mental Hygiene	SPED 480	3			
<b>TOTAL</b>		<b>12</b>	<b>TOTAL</b>		<b>12</b>

**MILD/MODERATE DISABILITIES**

Course	No.	Cr.
Survey of Students with Disabilities	SPED 299	3
Characteristics of Children with Mild/Moderate Learning Problems	SPED 301	3
Measurement & Evaluation of Atypical Children	SPED 306	3
Practicum: Measurement & Evaluation of Atypical Children	SPED 307	3
Behavior Disorders of Children	SPED 403	3
Methods of Teaching Academic Subjects to Mild/Moderate Learners	SPED 405	3
Diagnostic & Prescriptive Reading	SPED 406	3
Behavioral Approaches to Managing Children with Learning Problems	SPED 408	3
Classroom Org and Mgmt of Children/Learning and Behavior Problems	SPED 409	3
Methods of Teaching Children with Learning & Behavior Problems	SPED 410	3
Non-Behavioral Approaches to Managing Children with Mild/Moderate Learning Problems	SPED 411	3
Mainstreaming Practicum	SPED 417	3
Teaching Pre-Vocational Skills to with Mild/Moderate Learning Problems	SPED 418	3
Teaching Vocational Skills to Mild/Moderate Learners	SPED 419	3
Student Teaching with Mild/Moderate Learners	SPED 478	3
Mental Hygiene	SPED 480	3
Manual Communication I (SVCS)	SPED 461	3
Manual CommunicationII (SVCS)	SPED 489	3

# College of Engineering

**Dean:** Habib P. Mohamadian

**Associate Dean:** Patrick Carriere

**Director of Graduate Programs:** Hamid Majlesein

**Assistant to the Dean:** Janifer Peters

**Director of Computing and Networking:** Scott Woodall

The College of Engineering provides students with technological skills and opportunities that stimulate professional, educational, and personal growth. The College provides this growth through a diverse faculty and staff that are committed to teaching, research, and service. Students are encouraged to participate in laboratory research and cooperative education programs that enhance career confidence. They are also encouraged to participate in ongoing research with faculty members who contribute to engineering innovations. The College maintains an atmosphere that enhances students' ability to achieve an optimum learning experience.

The goals that the college is pursuing under its current five-year strategic plan are to:

1. Maintain an infrastructure to achieve academic and research goals;
2. Establish and maintain high-quality academic research and support programs;
3. Increase student outreach, enrollment, and success rate to nationally competitive levels; and
4. Improve the recruitment, development, and retention of high-quality faculty and staff.

Program offerings in the college are comprised of four-year programs in civil engineering, electrical engineering, and mechanical engineering, each leading to a Bachelor of Science degree. In addition a four-year program is offered in electronics engineering technology leading to a Bachelor of Science degree. Through the Southern University Department of Chemistry, students may pursue a dual degree in chemistry and chemical engineering in collaboration with Louisiana State University, Baton Rouge.

In addition to program offerings, the College is home to the U.S. Department of Energy's Samuel P. Massie Chair of Excellence Program. This program has contributed to improving the infrastructure of the college by establishing state-of-the-art engineering laboratories.

Scholarships in the College of Engineering are supported by foundations, industrial, governmental agencies, and private contributions. The most beneficial aspect of the scholarship program is the opportunity it gives students to pursue career goals free from financial obligations. Award amounts vary depending on student performance. A minimum score of 21 on the American College Test (ACT) and a cumulative grade point average of 3.0/4.0 is required to obtain and retain all scholarships.

The civil, electrical, and mechanical engineering programs are accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). The electronics engineering technology program is accredited by Technology Accreditation Commission (TAC) of ABET.

## **ADMISSION REQUIREMENTS**

Admission to the College of Engineering is open to students who have successfully completed the requirements listed below.

## Transfers from the University College

To be admitted to the College of Engineering (COE), students must have:

1. Qualified to officially exit from University College,
2. Completed a minimum of 26 credit hours with a GPA of 2.2/4.0 or better if they desire to major in civil, electrical, or mechanical engineering OR 24 credit hours with a GPA of 2.0/4.0 or better if they desire to major in electronics engineering technology, pass the "Writing Proficiency" exam, and
3. Earn a "C" or better in each of the following courses:
  - ENGL 110/111-Freshman Composition
  - MATH 264 - Calculus I (for civil, electrical, or mechanical engineering majors) OR
  - MATH 135 - Pre-Calculus I (for electronics engineering technology majors)
  - BIOL 104 or 105- General Biology
  - CHEM 112 - General Chemistry Lab,
  - CHEM 132 - General Chemistry Lecture.
  - PHYS 221 - General Physics I (for civil, electrical, or mechanical engineering majors) OR
  - PHYS 141 - Elements of Physics (for electronics engineering technology majors)
  - ENGR 120 – Freshman Engineering I
  - ENGR 130 – Freshman Engineering II

Applicants who satisfy entry requirements 1 and 2, but have not adequately passed all courses cited in entry requirement 3, can be "Conditionally Admitted." This action is contingent upon Applicants enrolling at the next opportunity in each missing course cited and earning a "C" or better. Until this entry requirement is fully met, Applicants will be denied permission to continue taking engineering courses beyond this point.

## Transfers from Other Areas of the University

Students transferring from other colleges at the University must meet the same requirements as those transferring from the University College.

Transfers credits are acceptable for degree programs if they represent course requirements in the appropriate curriculum. Course work pursued at other colleges shall be reviewed and approved by the appropriate departmental chair and by the dean of the college for its applicability to the specific requirements for a degree.

## Transfers from Other Universities

Students transferring from other approved colleges or universities must meet the admission requirements of the University and the requirements for persons transferring from the University College. Transfer students must submit an official transcript of courses completed at other institutions together with evidence of good standing to the Registrar at Southern University, Baton Rouge.

Course work pursued at other institutions shall be reviewed by the departmental chair and the dean of the college for its applicability to the requirements for a degree.

## DEGREE REQUIREMENTS

Students in the College of Engineering who satisfy the University's general education requirements and who have satisfactorily completed all curricular requirements are awarded the appropriate degrees. Quality standards that must be met for a degree are the attainment of a minimum overall grade point average of 2.0/4.0, a minimum grade point average of 2.00 in all courses pursued in the College and in all courses pursued in the major area, and a grade of "C" or better in those courses in the major area that are presented to fulfill the credit hour requirement in the major. Students must pass a departmental comprehensive examination and a writing proficiency test.

Additionally, all students who are matriculating in the College are expected to take various “CORE” courses in which they are required to earn a grade of “C” or higher. Listed below are several CORE course requirements in the subject areas of mathematics and science that must be taken by all students, except those majoring in the Electronics Engineering Technology program.

Students are also encouraged to take the Fundamentals of Engineering (FE) examination before completing all engineering degree requirements.

### **CORE MATHEMATICS AND SCIENCE REQUIREMENTS**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Calculus I	MATH 264	4
Calculus II	MATH 265	4
Calculus III and Differential Equations for Engineers	MATH 395	4
General Physics	PHYS 221	5
General Physics	PHYS 222	5
General Chemistry Lecture	CHEM 132	3
General Chemistry Lab	CHEM 112	1
<b>TOTAL</b>		<b>26</b>

### **COMMON ENGINEERING COURSE**

The following are common engineering courses in which students are required to earn a grade of “C” or higher.

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Freshman Engineering I	ENGR 120	2
Freshman Engineering II	ENGR 130	2
Technical Communications	ENGR 230	2
Probability and Statistics	ENGR 320	2
Engineering Math	ENGR 340	3
Senior Seminar	ENGR 400	1
Special Project	ENGR 491/492	1/2
Engineering Practice	ENGR 499	3

### **COOPERATIVE WORK/STUDY (CO-OP) PROGRAM**

The Southern University administration believes that a college education should include one or more professional experiences. The college of engineering has held this view for many years and has worked with its industrial partners to provide meaningful work experiences via its CO-OP program. This program is open to all qualified students who desire to engage in such work experiences. However, a CO-OP experience is not a requirement for graduation. The essential elements of the CO-OP program include the following:

1. **Differences between CO-OP and Non CO-OP Options:** The College has held in almost all cases that students should have their first CO-OP experience at the end the sophomore year. The College grants three hours of course credit toward a Bachelor of Science degree in engineering to only junior and senior students who participate in the CO-OP experience and who enroll in the Engineering Practice (ENGR 499) course. These credits may be used as curricula technical electives upon approval of the Department Chair. The College prefers that students take the traditional option of alternating CO-OP involvement on a yearly basis, which gives them three CO-OP work

experiences before completing their engineering degree requirements.

2. **Evaluation by Participating Employers:** The quality of the job performed by our CO-OP students at the various facilities of participating employers is to be rated by the instructor assigning CO-OP student grades. The work performed at a participating company must involve the use of junior-level engineering science principles. It must also involve a project design component. The participating employers will submit a student's work performance evaluation to the university.
3. **Instructor's Evaluation of Students Work Performance:** A student's final project design report, along with the participating company's evaluations of the student's work performance, are transferred from the CO-OP office to the instructor who is responsible for issuing a final grade to the student.

The chairperson of each department is the CO-OP coordinator and serves as advisor to all CO-OP students in that department; and is the teacher-of-record for all departmental CO-OP classes. This responsibility counts as part of each chairperson's teaching load. If a student chooses to use a CO-OP experience as a senior level technical elective, he/she must enroll in ENGR 499. His/her final CO-OP report must be evaluated for technical merit, accounting for a major part of the course grade, and it is to be kept on file. The department chairperson and the dean of engineering must give final approval of the assigned credit.

## GENERAL EDUCATION REQUIREMENTS

Students must complete the University's general education requirements, including the African-American experience and community service, as outlined in the section on University General Education Requirements in this catalog.

## NON-TECHNICAL ELECTIVES

### English Composition

Six hours of course work in Freshmen Composition is required and must be taken in sequence (i. e., ENGL 110 and ENGL 111).

### Humanities

Nine hours of course work in the Humanities are required and six hours must be history courses. The remaining three hours must be taken at the sophomore level or above and may be selected from the following series of courses: History (HIST 230, 311\*, 399, 401, 410\*, 463, 486\*); Humanities (HUMN 241, 242, 366, 399, 403, 404); Philosophy (PHIL 200, 210, 220, 230, 353, 415, 426); and Foreign Languages (GERM 200-499; FREN 200-460; SPAN 200-482).

### Literature

Three hours of course work in literature is required and may be either of the following courses: (ENGL 201, 203\*, 204, 205).

### Art

Three hours of course work in the Arts is required and may be selected from the following series of courses: fine arts (ARTS 200, 210/211, 320, 330, 440\*); music (MUSC 200, 250/251, 352\*, 353\*); and speech & theater (SPTH 360).

### Social Science

Six hours of course work in the social sciences are required of which three hours must be either ECON 200 or ECON 205. The remaining three hours must be selected from the following series of courses: economics (ECON 210, 370); geography (GEOG 210, 221, 401); political science (POLS 200, 210, 320, 402); sociology (SOCL 210,324, 448); and psychology (PSYC 210, 315, 350).

## Life (Natural) Science

Ten hours of course work is required in the biological and physical sciences, with a laboratory experience. Six hours must be in physics (i.e., PHYS 221 & 222 for engineering majors or PHYS 141 & 142 for engineering technology majors) and four hours must be in Chemistry (i.e., CHEM 132 & 112). The two physics courses must be taken in a two-semester sequence. Also, three hours of course work is required in life science and must be either BIOL 104 or BIOL 105.

## Physical Education & Health

Two hours of course work is required in physical education or health and may be selected from the following series of courses: physical education (PHED 100-250); health (HLTH 110-365).

## African-American Experience

Three hours of course work is required in African-American studies which may be selected from the following series of courses: ENGL 203\*, 313, 407, 413, 415, 485; ARTS 440; HIST 311\*, 399, 401, 419, 496, 497; MUSC 243, 352, 353; HUMN 366, 403; MCOM 331; PHIL 426; SOCW 250, 450; SPTH 399.

\* Taking any of these courses will also satisfy the African-American experience.

## Freshman Seminar

Students are required to take freshman seminar or its equivalent during the first year of matriculation at Southern University to meet graduation requirements. In addition, transfer students must adhere to the following:

- Students who have earned 24 credit hours or less at another institution are required to take freshman seminar or its equivalent;
- Students who have earned more than 24 credit hours from another institution are not required to take freshman seminar as a requirement for graduation.



# Department of Civil and Environmental Engineering

**Chair:** Emmanuel Nzewi

**Professors:** Muluneh Azene, Patrick Carriere, Chukwu Onu

**Associate Professors:** Khalid Alshibli

**Assistant Professors:** Riyadh Al-Raonsh, Huey Lawson, Hak-Chul Shin

Civil engineering encompasses a wide variety of technological areas that include environmental, geotechnical, structural, transportation, and water resources engineering. Civil engineers work with problems such as solid waste disposal, environmental pollution, water supply and distribution, highway design, buildings, and transportation systems that directly impact the health and economic vitality of people and communities.

The civil engineering program is designed to give students a meaningful educational experience in the humanities, social studies, English, economics, and basic sciences, and suitable training in applying fundamental principles in the analysis, design, and maintenance of engineering works; and inspire continuous learning throughout their professional life.

The program, which is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), consists of 135 hours. MEEN 225, and MEEN 227 are CORE courses for civil engineering students.

## CIVIL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES (PEO)

The Educational Objectives of the Civil Engineering Program are to produce graduates who:

- PEO1:** Are trained thoroughly in methods of analysis, including the mathematical and computational skills appropriate for civil engineers to use when solving problems.
- PEO2:** Have developed the skills pertinent to the design of civil engineering systems, including the ability to formulate problems, to think creatively, to synthesize information, to work collaboratively, and to communicate effectively, in at least four of the major civil engineering areas of environmental, structures, transportation, and water resources.
- PEO3:** Are able to use current experimental and data analysis techniques for civil engineering applications.
- PEO4:** Are prepared for successful civil engineering careers and life-long learning.
- PEO5:** Have an understanding of their professional and ethical responsibilities.

## THE SAFETY OF DAMS TRAINING PROGRAM

The Safety of Dams Training Program is comprised of a lecture series of courses in specialized topics. The important features of this training program include ongoing guest lectures by practitioners, integration of dam safety topics covering several subject areas, a blend of theory and practice, multimedia courseware and computer-based tutorials, video presentations of field experiences, and field trips.

## THE DR. SAMUEL P. MASSIE CHAIR OF EXCELLENCE PROFESSORSHIP

The Dr. Samuel P. Massie Chair of Excellence Professorship program, funded by the Department of Energy (DOE), is established for creating a model research atmosphere in engineering to complement the academic program in civil engineering.

**BACHELOR OF SCIENCE IN CIVIL ENGINEERING****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Engineering I	ENGR 120	2	Freshman Engineering II	ENGR 130	2
Life Science Elective		3	Freshman Composition	ENGL 111	3
Freshman Comp.	ENGL 110	3	Economics	ECON 205	3
General Chemistry	CHEM 132	3	General Physics	PHYS 221	5
General Chemistry Lab	CHEM 112	1	Calculus II	MATH 265	4
Calculus I	MATH 264	4			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>17</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Surveying	CIEN 201	3	Dynamics	MEEN 225	3
Health or	HLTH		Strength of Materials	MEEN 227	3
Physical Education	PHED	2	Thermodynamics I	MEEN 300	3
Statics	CIEN 224	3	Cal III and Differ Eqn		
Electrical Network. I	ELEN 208	3	for Engr	MATH 395	4
General Physics	PHYS 222	5	History Elective	HIST	3
Technical Communication	ENGR 230	2	Probability & Statistics	ENGR 320	2
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Engineering Economy	CIEN 310	3	Engr Math	ENGR 340	3
CAD in CE	CIEN 311	3	Water Resources Engineering	CIEN 323	3
Fluid Mechanics	CIEN 321	3	Intro to Environ Engineering	CIEN 325	3
Structural Analysis	CIEN 361	3	Transportation Engr I	CIEN 381	3
Construction Mater Lab	CIEN 327	2	Steel Design	CIEN 469	3
English Literature Elective	ENGL	3	Social Science Elective		3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>17</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Engr Seminar	ENGR 400	1	Senior Design Project II	CIEN 483	2
Water /Wastewater Analysis	CIEN 421	2	Arts Elective	ARTS	3
Concrete Design	CIEN 470	3	Water Res/Environ Elective	CIEN	3
Senior Design Project I	CIEN 482	2	Structural/Geotech Eng. Elective	CIEN	3
Soil Mechanics	CIEN 424	3	History Elective	HIST	3
Humanities Elective		3			
Technical Elective	CIEN	3			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>14</b>

All ENGR courses, MEEN 225, and MEEN 227 are CORE courses for civil engineering students.

**CIVIL ENGINEERING TECHNICAL ELECTIVES****Environmental Engineering Electives**

<b>Course</b>	<b>No.</b>
Design of Water & Sewerage Trt. Plant	CIEN 462
Air Pollution Control	CIEN 463
Solid /Hazardous Waste Management	CIEN 475

**Structural/Geotechnical Engineering Electives**

<b>Course</b>	<b>No.</b>
Introduction to Construction Management	CIEN 478
Construction Engineering	CIEN 458
Foundation Engineering	CIEN 403
Design of Hydraulic Structures	CIEN 476

**Transportation Engineering Electives**

<b>Course</b>	<b>No.</b>
Advanced Transportation Engineering	CIEN 382
Pavement Design and Management	CIEN 481
Railway Engineering	CIEN 485

**Water Resources Engineering Electives**

<b>Course</b>	<b>No.</b>
Water Supply and Sewerage	CIEN 461
Intro to Dam Safety	CIEN 468
Introduction to GIS	UFOR 375

**General Technical Electives**

<b>Course</b>	<b>No.</b>
Special Topics in Civil Engineering	CIEN 480
Engineering Practice	ENGR 499

## **Department of Electrical Engineering**

**Chair:** Pradeep K. Bhattacharya

**Professors:** Pradeep K. Bhattacharya, Hamid R. Majlesein, Raife Smith II, Ernest L. Walker

**Associate Professors:** Jiecai Luo, Elhag Shaban, Charles Singleton, Fred Lacy,

**Assistant Professors:** Wanda L. McFarland, Zhengmao Ye

The Department of Electrical Engineering offers a program of study in methods of design, application, and analysis of electrical systems. Emphasis is placed on the fundamentals of electrical engineering, as well as advanced topics. The goal is to prepare graduates capable of performing well in industry and in graduate school. There is a total of 133 hours in the electrical engineering curriculum.

The electrical engineering program is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET).

## ELECTRICAL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES (PEO)

The Educational Objectives of the Electrical Engineering Program are to produce graduates who:

- PEO1:** Are trained thoroughly in methods of analysis, including the mathematical and computational skills appropriate for electrical engineers to use when solving problems.
- PEO2:** Have developed the skills pertinent to the design process, including the ability to formulate problems, to think creatively, to communicate effectively, to synthesize information, and to work collaboratively.
- PEO3:** Know how to use current experimental and data analysis techniques for engineering applications.
- PEO4:** Are prepared for successful electrical engineering careers and life-long learning.
- PEO5:** Have had instilled in them an understanding of their professional and ethical responsibilities with a knowledge and understanding of contemporary issues.

## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Engr.I	ENGR 120	2	Fresh Engr. II	ENGR 130	2
Calculus I	MATH 264	4	Economics	ECON 205	3
Freshman Comp.	ENGL 110	3	Calculus II	MATH 265	4
General Chemistry	CHEM 132	3	Freshman Comp.	ENGL 111	3
General Chemistry Lab	CHEM 112	1	General Physics	PHYS 221	5
Life Science Elective		3			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>17</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Electrical Circuits I	ELEN 208	3	Electrical Circuits II	ELEN 209	3
Elec. Circuits Lab I	ELEN 210	1	Elec. Circuits Lab II	ELEN 211	1
General Physics	PHYS 222	5	English Lit. Elect	ENGL 203	3
Tech. Communication	ENGR 230	2	Phys. Of Sem. Device	ELEN 212	3
Cal III and Differ Eqn for Engr	MATH 395	4	Engr. Mechanics	MEEN 229	4
Health/PE		2	History Elective	HIST	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>17</b>

### Junior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Engr. Electronics I	ELEN 312	3	Engr. Electronics II	ELEN 313	3
Engr. Elec. Lab I	ELEN 314	1	Eng. Elect Lab II	ELEN 315	1
Prob. & Statistics	ENGR 320	2	Elec. Machines I	ELEN 342	3
Elec. Mag. Field Theo	ELEN 341	3	Elec. Machines Lab I	ELEN 344	1
Engineering Math	ENGR 340	3	Signals and Systems	ELEN 390	3
Digital Logic Design	ELEN 303	3	Intro to Micro Proc	ELEN 304	3
Digital Logic Design Lab	ELEN 305	1	Microprocessor Lab	ELEN 306	1
			Engineering Econ	CIEN 310	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Comm. Engr. I	ELEN 409	3	Technical Elective	ELEN	3
Sr. Design Project I	ELEN 493	1	Technical Elective	ELEN	3
Control Sys Anal	ELEN 431	3	Elect. Engr. Lab Elec	ELEN	1
Thermodynamics I	MEEN 300	3	Arts Elective		3
Humanities Elective		3	Sr. Design Project II	ELEN 494	2
Engr. Seminar	ENGR 400	1	Social Science Elect		3
History Elective	HIST	3			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>15</b>

**ELECTRICAL ENGINEERING ELECTIVES**

The electrical engineering electives are arranged in groups as shown below to allow students an opportunity to focus in a specialty area of employment or graduate study.

**GROUP I: COMPUTERS**

Course	No.	Cr.
Computer Architecture	ELEN 400	3
Digital Systems I	ELEN 401	3
Digital Signal Processing	ELEN 405	3
Digital Signal Processing Lab	ELEN 406	1
Operating Systems	ELEN 473	3
Computer Systems Lab	ELEN 474	1
Computer Networks	ELEN 475	3

**GROUP II: POWER AND CONTROL SYSTEMS**

Course	No.	Cr.
Electrical Machinery II	ELEN 343	3
Discrete Control Systems	ELEN 432	3
Control Systems Lab	ELEN 433	1
Optimization Techniques	ELEN 434	3
Power Systems Analysis	ELEN 442	3
Network Synthesis	ELEN 471	3
Power System Design	ELEN 463	3

**GROUP III: COMMUNICATIONS**

Course	No.	Cr.
Electromagnetic Field Theory Lab	ELEN 325	1
Communication Engineering II	ELEN 412	3
Communication Systems Lab	ELEN 415	1
Microwaves	ELEN 423	3
Computer Communications Systems	ELEN 472	3

**GROUP IV: ELECTRONICS**

Course	No.	Cr.
Advanced Topics in Electrical Engineering	ELEN 417	3
Theory & Fabrication of Solid State Devices	ELEN 418	3
Integrated Circuit Design & Analysis	ELEN 419	3
Mechatronics	ELEN 464	3
Electrical Design Lab	ELEN 490	1

# Department of Electronics Engineering Technology

**Chair:** Manjit S. Randhawa

**Professor:** Abolfazl M. Amini, Manjit S. Randhawa

**Associate Professor:** Davoud Arasteh

**Assistant Professors:** Walter O. Craig, Raynaud Henton

The Bachelor of Science degree program is intended to provide the students with a broad-based understanding of electronics engineering technology, engineering testing, field engineering, project management, and product design and development.

Graduates of the program are qualified for a wide variety of commercial, governmental, and industrial employment in the field of engineering technology. There are 130 hours for the Bachelor of Science in Electronics Engineering Technology degree. Nine hours of required technical electives in the Bachelor of Science degree program give the student flexibility to choose courses from various elective groups.

ENGR 120 and 130 are considered core courses in the Electronics Engineering Technology Program. MATH 276 may be taken in place of ENGR 320.

The electronics engineering technology program is accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET).

## ELECTRONICS ENGINEERING TECHNOLOGY PROGRAM EDUCATIONAL OBJECTIVES (PEO)

The Educational Objectives of the Electronics Engineering Technology Program are to produce graduates who:

- PEO1:** Are educated in the design, installation, and application of electrical and electronic systems as Engineering Technologists.
- PEO2:** Are trained in the operation and maintenance of electrical and electronic systems.
- PEO3:** Are prepared for lifelong learning and successful professional careers.
- PEO4:** Have developed the oral and written communication skills that allow them to present information effectively.
- PEO5:** Have an understanding of professional, ethical, and societal responsibilities.

## CORE MATHEMATICS AND SCIENCE COURSE REQUIREMENTS FOR THE ELECTRONICS ENGINEERING TECHNOLOGY PROGRAM.

Course	No.	Cr.
Pre-Calculus I	MATH 135	3
Pre-Calculus II	MATH 140	3
Calculus I	MATH 264	4
Calculus II	MATH 265	4
Elements of Physics	PHYS 141	4
Elements of Physics	PHYS 142	4
General Chemistry Lecture	CHEM 132	3
General Chemistry Lab	CHEM 112	1
<b>TOTAL</b>		<b>26</b>

**BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING TECHNOLOGY****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Comp	ENGL 110	3	Freshman Composition	ENGL 111	3
General Chem Lab	CHEM 112	1	Freshman Engr. II	ENGR 130	2
Freshman Engr. I	ENGR 120	3	Pre-Calculus Math II	MATH 140	3
General Chem Lec.	CHEM 132	3	Elements of Physics	PHYS 142	4
Pre-Calculus Math I	MATH 135	3	DC CKT Analysis	EENT 110	3
Elements of Physics	PHYS 141	4	DC CKT Analysis Lab	EENT 111	1
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
AC CKT Analysis Lec	EENT 210	3	Electronic CKT II Lec	EENT 216	3
AC CKT Analysis Lab.	EENT 211	1	Electronic CKT II Lab.	EENT 217	1
Electronics CKT I Lec.	EENT 212	3	Digital Logic Design Lec	EENT 220	3
Electronics CKT I Lab	EENT 213	1	Digital Logic Design Lab	EENT 221	1
Tech Communication	ENGR 230	2	Calculus II	MATH 265	4
Calculus I	MATH 264	4	Health/PhEd Elective		2
History Elective	HIST	3	History Elective	HIST	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>17</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Microprocessor Lec	EENT 316	3	Economics	ECON 205	3
Microprocessor Lab	EENT 317	1	Electrical Mach. Lec.	EENT 360	3
Statistics for Engr	ENGR 320*	2	Electrical Mach. Lab.	EENT 361	1
Fund. Signals & Data Processing	EENT 370	3	Digital Comm. Lec.	EENT 390	3
Fund Signal Data Lab	EENT 371	1	Digital Comm. Lab.	EENT 391	1
Electronics Elective	EENT	3	Life Science Elective	BIOL	3
English Lit Elective	ENGL	3	Humanities Elective		3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>17</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Engineering Seminar	ENGR 400	1	Control System Tech	EENT 450	3
CompNetworking Lec	EENT 480	3	Computer Security &		
Comp Networking Lab	EENT 481	1	Data Protection	EENT 486	3
Sr Elect. Design Project I	EENT 494	2	Sr Elect Design Project II	EENT 496	3
Communication Elective	EENT	3	General Technical elect		3
Social Science Elect		3	Programmable Logic Controllers	EENT 460	3
Arts Elective		3			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>

NOTE: \*Math 276 is an alternate course that may be taken in place of ENGR 320

### Electronics Elective

Course	No.
Linear Integrated Circuits	EENT 314
Semiconductor Device Processing	EENT 330
Advanced Electronics Circuit Analysis and Design	EENT 404

### Communication Electives

Course	No.
Advance Topics in Digital Signal Processing	EENT 479
Advance Topics in Computer Technology	EENT 489
Fiber Optics Communication	EENT 490
Wireless Communication Systems	EENT 492
Advanced Topics in Communication	EENT 495
Analog Communication	EENT 310
Lines, Waves, and Antennas	EENT 392

### General Technical Electives

Course	No.
Information Systems	CMPS 315
Object Oriented Programming	CMPS 370
Advanced Object-Oriented Programming	CMPS 371
Numerical Methods	CMPS 407
Distributed Processing	CMPS 432
Principle of Management	MGMT 300
Human Resource Management	MGMT 320
Organizational Behavior	MGMT 420
Management of Innovation and Technology	MGMT 450
Environmental Management	MGMT 455
Engineering Practice	ENGR 499
Cal III and Diff. Equation for Engineering	MATH 395



## Department of Mechanical Engineering

**Chair:** Samuel Ibekwe

**Professors:** Ravinder Diwan, Chun-Ling Huang, Samuel Ibekwe, Amitava Jana, Ghanashyam Joshi, Patrick Mensah, Habib Mohamadian, Cheng Shung Wang, Eyassu Woldesenbet

**Associate Professors:** Edgar Blevins, Karen Crosby, Dwayne Jerro, Parviz S. Razi, Michael Stubblefield, Guoqiang Li

The Department of Mechanical Engineering offers a four-year program leading to a Bachelor of Science degree in Mechanical Engineering. The program is designed to prepare students capable of facing the complex professional challenges of the future with pride and confidence. Emphasis of the program, therefore, is on the understanding and application of fundamental laws of science to mechanical systems and to design, creative thinking, and ethical and economical decision making. Elective concentrations in aerospace and materials engineering provide additional flexibility to students whose future interests may lie in the pursuit of graduate studies in mechanical engineering or related disciplines. There is a total of 135 credit hours in the mechanical engineering curriculum.

The department's commitment to prepare students for the 21st century is reflected in the provision of state-of-the-art laboratories with emphasis on hands-on and computer applications in all basic, analytical, and advanced design courses. The mechanical engineering program is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). CIEN 224 is considered core course for mechanical engineering students.

### MECHANICAL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

The Educational Objectives of the Mechanical Engineering Program are to produce graduates who:

- PEO1:** Are trained thoroughly in methods of analysis, including the mathematical and computational skills and in-depth understanding of at least one area of specialization appropriate for mechanical engineering majors to use when solving problems.
- PEO2:** Have developed skills pertinent to the engineering design process, including the ability to formulate problems, to think creatively, to communicate effectively, to synthesize information, and to work collaboratively in teams.
- PEO3:** Are able to use current experimental and data analysis techniques for mechanical engineering application.
- PEO4:** Are prepared for successful mechanical engineering careers and life-long learning.
- PEO5:** Have full conscience of their professional and ethical responsibilities, and knowledge of contemporary issues.

### BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

#### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Engr I	ENGR 120	2	Freshman Engr II	ENGR 130	2
Life Science Elective		3	Freshman Comp.	ENGL 111	3
Freshman Comp.	ENGL 110	3	Economics	ECON 205	3
General Chemistry Lec	CHEM 132	3	General Physics	PHYS 221	5
General Chemistry Lab	CHEM 112	1	Calculus II	MATH 265	4
Calculus I	MATH 264	4			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>17</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Statics	CIEN 224	3	Dynamics	MEEN 225	3
Cal III & Differ Eqn for Engr	MATH 395	4	Mechanics of Materials	MEEN 227	3
Humanities Elective		3	Materials Sci & Engr	MEEN 235	3
General Physics	PHYS 222	5	Intro to CADD	MEEN 252	3
Tech Communication	ENGR 230	2	Num Methods for Engr	MEEN 221	3
			E. E. Fundamentals	ELEN 352	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Thermodynamics I	MEEN 300	3	Thermodynamics II	MEEN 301	3
Engr Math	ENGR 340	3	Matl. Sci & Engr Elect		3
Fluid Mechanics	MEEN 312	3	Machine Design	MEEN 365	3
Materials Processing	MEEN 335	3	Measurements	MEEN 356	3
Mechanics of Machines	MEEN 350	3	Probability & Statistics	ENGR 320	2
Social Science Elect		3	History Elective		3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>17</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Engineering Seminar	ENGR 400	1	Engineering Economy	CIEN 310	3
Heat Transfer	MEEN 442	3	ME Senior Design II	MEEN 451	2
Heat Transfer Lab	MEEN 444	1	Control & Engr Model	MEEN 456	3
ME Senior Design I	MEEN 450	2	General Tech. Elective		3
Thermal Science Elect		3	Arts Elective		3
History Elective		3	Health/PE Activity		2
Literature Elective		3			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

**MECHANICAL ENGINEERING TECHNICAL ELECTIVE GROUPS****Thermal Science**

Course	No.	Cr.
Fluid Dynamics	MEEN 313	3
Thermal Environmental Engineering	MEEN 421	3
Mechanical Energy Systems	MEEN 460	3
Thermal System Analysis	MEEN 482	3

**Materials Science & Engineering**

Course	No.	Cr.
Engineering Materials & Selection	MEEN 337	3
Composite Materials	MEEN 336	3
Intro to Finite Elements	MEEN 430	3
Engineering Design: Materials & Manufacturing	MEEN 462	3

**General Technical Elective**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Mechatronics	MEEN 464	3
Mechanical Vibrations	MEEN 343	3
Computer-Integrated Manufacturing	MEEN 471	3
Fracture Mechanics	MEEN 338	3
Intermediate Manufacturing Processes	MEEN 439	3
Engineering Practice	ENGR 499	3
Topics in Mechanical Engineering	MEEN 467-468	3
Senior Projects	MEEN 497-498	3

**NOTE:** The courses listed under Thermal Science, and Materials Science & Engineering may also count as one of the general technical elective courses.



# College of Sciences

**Dean:** Robert H. Miller Jr.

**Administrative Assistant:** Preston H. White

**Administrative Secretary:** JoAnn W. Martin

The College of Sciences seeks to improve the scientific literacy of all students enrolled in the University. The college provides a liberal education in the sciences through course offerings to majors and non-majors. The Departments of Biological Sciences, Chemistry, Computer Science, Mathematics, Physics, Psychology, Rehabilitation and Disability Studies, Social Work, Sociology, and Speech Pathology and Audiology offer baccalaureate degree programs that prepare students for careers in the pure and applied sciences.

The Master of Science degrees are in biology, chemistry, computer science, environmental science, mathematics, physics, and rehabilitation counseling. In collaboration with the College of Arts and Humanities and the Nelson Mandela School of Public Policy and Urban Affairs, the college also offers the Master of Arts in Social Sciences with concentrations in history, public policy, and sociology. For additional information, refer to the Southern University Graduate School Catalog.

The College of Sciences promotes academic excellence through counseling and scholarly activities and offers courses of study that provide the foundation necessary for graduate work, for professional training and advancement, and for a successful career as a scientist.

The college seeks to instill in students an appreciation for science as an area of human experience used in exploring and understanding the universe. Research and cooperative work experiences for students form an integral part of the educational program.

Courses of study enable future teachers to provide basic instruction in the areas of science and other educational programs. The college strives to prepare its graduates to apply theoretical and practical solutions to societal problems.

## ADMISSION REQUIREMENTS

For regular admissions to the College of Sciences, the student must complete the requirements (or equivalent) of the University College with no less than a 2.0 grade point average. This requirement must include six hours of English (ENGL 110-111), six hours of history, six hours of mathematics (MATH 130 or above), and seven hours of science (biology, chemistry, or physics).

Requirements for admission to the undergraduate program in computer science are described in the Department of Computer Science section.

## TRANSFER OF CREDITS

A student transferring to the College of Sciences from another college or university must have the institution to send an official transcript to the registrar of Southern University, Baton Rouge.

All work pursued at other institutions or in another college or school at Southern University shall be reviewed and approved by the dean of the College of Sciences for its applicability to the specific general education and major requirements for a degree.

## DEGREE REQUIREMENTS

The Bachelor of Science degree is awarded to students who complete the requirements of the college as stated below:

- The completion of an approved program of study of not less than 128 semester hours of course work with a minimum overall 2.0 GPA and with grades of "C" or above in all courses completed

to fulfill the major and bona fide minor course requirements. See section on Baccalaureate Degree Requirements for details.

- The completion of at least 32 semester hours of credit in a major field; the specific semester-hour requirement for curricula in each department is outlined in the description of the program of that department.
- The completion of the following general education requirements:

English . . . . .9 credits

(Freshman Composition, ENGL 110 and 111, plus three hours of literature to be selected from ENGL 201, 202, 203, 204, 205, or an appropriate higher level literature course).

Mathematics . . . . .6 Hours  
MATH 130 or above

Arts . . . . .3 Hours  
To be selected from ART 200, MUSC 200, or MUSC 353

Science . . . . .10 Hours

Each student must complete at least 10 semester hours in the natural sciences, both physical and biological, which includes a two-semester sequence, totaling six semester hours. A one semester hour laboratory experience must be included in this 10-hour requirement. The selections must be made from BIOL 104 and 105; CHEM 108 and 128, 109 and 129, 110 and 130, 111 and 131, 112 and 132, and 113 and 133, and PHYS 101, 102, 201, 202, 141, 142, 221, and 222.

Humanities . . . . .9 Hours

Each student must complete a two-semester sequence in history, totaling six semester hours. The selections must be made from HIST 104 and 105, 114 and 115, or two higher level courses in history by advisement. Additionally, each student must complete three semester hours to be selected from PHIL 200, 210 and HUMN 241, 242, 244, and 366.

Social Science . . . . .6 Hours

To be selected from ECON 205, GEOG 210 and 221, POLS 200 and 210, PSYC 210, and SOCL 210.

Foreign Language . . . . .6 Hours

It is mandatory that the six semester hours be completed in the same language.

Computer Literacy

Students whose programs do not require courses in computer science must enroll in CMPS 105 or 290, or an approved substitute (not more than five years old). Computer literacy may be established by examination or through a computer science component in an academic department.

Health or Physical Education . . . . .2 Hours

This requirement may be fulfilled by completing HLTH 110 or two semester hours of physical education activity courses.

In addition to the college requirements, students must complete Freshman Seminar, FRMN 110 and 111, community service requirement, the African-American experience, writing proficiency test, and departmental comprehensive exam. For further details, consult the section on University General Education Requirements.

**Freshman Seminar**

Students are required to take freshman seminar or its equivalent during the first year of matriculation at Southern University to meet graduation requirements. In addition, transfer students must adhere to the following:

- Students who have earned 24 credit hours or less at another institution are required to take freshman seminar or its equivalent;
- Students who have earned more than 24 credit hours from another institution are not required to take freshman seminar as a requirement for graduation.

## Department of Biological Sciences

**Interim Chair:** Robert H. Miller

**Professors:** Clyde E. Johnson, Nusrat Naqvi, Fitzgerald Spencer, Nwaeze Unaeze, Pushpa Samkutty

**Associate Professors:** Oswald D'Auvergne, Willis H. Jacob, Alice Ward Johnson, Yetunde Ogunkoya

**Assistant Professors:** Deidra Atkins-Ball, Derek Cole, Deadra L. James, Eduardo Martinez-Ceballos, Srivatha Naragoni, Andrea G. Poole, Shervia Singleton Taylor, Caroline Telles

**Instructor:** Linda West

**Technicians:** Mary Beals, Masomehbi Fatemi

The Department of Biological Sciences is the second largest department among the 10 departments in the College of Sciences at Southern University at Baton Rouge. The department offers a single degree, a Bachelor of Science degree, at the undergraduate level. The primary role and commitment of the department is to provide a superior program of instruction that relates to the study of the various aspects of life processes.

After completing 30 semester hours of required biological sciences core courses, students are able to choose electives to fulfill the remainder of their degree requirements in biology. These electives, along with the core requirements, can prepare students for entry into graduate schools or professional programs such as medicine, dentistry, veterinary medicine, pharmacy, podiatry, or public health. The department also prepares graduates for employment opportunities in government, education, industry, and research laboratories.

The biological sciences curriculum has sufficient flexibility to afford students the opportunity to choose courses to pursue pre-professional areas such as pre-medicine, pre-pharmacy, pre-optometry, pre-veterinary medicine, pre-physician assistant, or sports medicine. Students can also choose courses to prepare them for entry into allied health programs such as physical therapy or medical technology. The student should obtain a catalog from the school or program that he or she plans to attend and use it as a guide for the preparatory courses of study. Student career choices or interests may be achieved through a selection of approved elective courses with the assistance of an academic advisor.

The department also offers a Master of Science degree in biology. Information about the graduate program may be found in the Southern University Graduate School Catalog.

### DEGREE REQUIREMENTS

A student majoring in the biological sciences must satisfactorily complete 128 semester hours with a minimum grade of "C" in all biological sciences courses pursued. Sixty percent of these courses must be at the 300 level or above. Additionally, a biology major must complete 42 semester hours of biological sciences courses that include a core curriculum consisting of general biology, general microbiology, principles of research, genetics, introduction to biostatistics, cellular and molecular biology, biology seminar, a physiology elective, and 12 additional hours of biology electives that the student (in consultation with an academic advisor) can select in light of his career aspirations. Majors must also take all standardized examinations administered by the department and pass the Departmental Comprehensive Examination. Biology majors, like all students at the University, must complete the University requirement of 60 clock hours of community service, pass the writing proficiency examination, and pass a three-credit-hour course in African-American studies.

The prerequisite for MATH 140 (pre-calculus II) must be met by completing MATH 135 (pre-calculus I) or its equivalent with a grade of "C" or better or by a satisfactory score on the placement exam for this course. Students who successfully complete the advanced calculus placement exam should consult the departments of biological sciences and mathematics to ensure that all mathematics requirements are satisfied.

## Requirements for a Biology Minor

A student may obtain a minor in biology by completing 16 semester hours in biology in addition to BIOL 108 and BIOL 109 (4 semester hours each) for a total of 24 semester hours. The courses that are required to complete the minor must be approved by the Department of Biological Sciences. Students obtaining a minor in biology must also satisfy the requirements of the college and the University.

## CURRICULUM IN THE BIOLOGICAL SCIENCES

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Gen. Biology	BIOL 108	4	Gen. Biology	BIOL 109	4
Gen. Chem. Lecture	CHEM 132	3	Gen. Chem. Lecture	CHEM 133	3
Gen. Chem. Lab	CHEM 112	1	Gen. Chem. Lab	CHEM 113	1
History of Civilization	HIST 114	3	History of Civilization	HIST 115	3
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
P.E. Activity	PHED	1	P.E. Activity	PHED	1
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Precalculus II	MATH 140*	3	Calculus I	MATH 264	4
Org. Chem. Lecture	CHEM 230	3	Org. Chem. Lecture	CHEM 231	3
Org. Chem. Lab	CHEM 220	1	Org. Chem. Lab	CHEM 221	2
Computer Appl.	CMPS 290	3	Psychology	PSYC 210	3
Literature Elective	ENGL	3	Biostatistics	BIOL 409	3
Gen. Microbiology	BIOL 232	4			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

### Junior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Gen. Biochem. Lecture	CHEM 340	3	Principles of Research	BIOL 300	2
Gen. Biochem. Lab	CHEM 342	1	Biology Elective**	BIOL	4
Elements of Physics	PHYS 141	4	Elements of Physics	PHYS 142	4
Genetics	BIOL 350	4	Biology Elective**		6
Free Elective		3	Free Elective		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>17</b>

### Senior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Cell & Molec.	BIOL 402	4	Physiology Electives**	BIOL	4
Seminar	BIOL 403	1	Social Science Elective		3
Foreign Language		3	Foreign Language		3
Biology Electives	BIOL	4	Art Elective		3
Humanities Elective		3	Free Elective		4
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>17</b>

\*Prerequisite or placement

\*\*Physiology Elective: To be selected from BIOL 305, 412, 433, 442

**CORE COURSES**

<b>Course</b>	<b>No.</b>
General Biology	BIOL 108
General Biology	BIOL 109
General Microbiology	BIOL 232
Principles of Research	BIOL 300
Biostatistics	BIOL 409
Seminar	BIOL 403
Generics	BIOL 350
Cell and Molecular Biology	BIOL 402
Physiology Elective	BIOL 305, 412, 433, 442

**ELECTIVE COURSES IN BIOLOGY**

<b>Course</b>	<b>No.</b>
General Zoology	BIOL 201
General Botany	BIOL 209
Morphology of Non-Vascular Plants	BIOL 210
Invertebrate Zoology	BIOL 240
Comparative Anatomy	BIOL 241
Morphology of Vascular Plants	BIOL 310
Vertebrate Histology	BIOL 341
Vertebrate Embryology	BIOL 342
Introductory Parasitology	BIOL 343
Introduction to Electron Microscopy	BIOL 401
Cell and Molecular Biology	BIOL 402
Ecology	BIOL 404
Introduction to Biostatistics	BIOL 409
Mycology	BIOL 410
Plant Pathology	BIOL 411
Plant Physiology	BIOL 412
Cell Physiology	BIOL 413
Pathogenic Microbiology	BIOL 430
Immunology	BIOL 432
Microbial Physiology	BIOL 433
Applied Microbiology	BIOL 434
Biological Research I	BIOL 436
Biological Research II	BIOL 437
Animal Physiology	BIOL 442
Microbial Genetics	BIOL 450
Special Topics in Biomedical Sciences	BIOL 452
General Virology	BIOL 453

## Department of Chemistry

**Chair:** Michelle Claville

**Professor Emeriti:** Earl Doomes, Mildred R. Smalley

**Professors:** Wesley G. Gray, Ella L. Kelley, Robert H. Miller Jr., William E. Moore, John W. Owens, Ahmad A. Suleiman, Jing-Fong Wei

**Associate Professors:** Michelle Claville, Edwin H. Walker

**Assistant Professors:** Carolyn Albert, Sylvester Burton, Derald Chriss, Robert Cook, Kinesha Harris, Conrad Jones, Aubrey Williams

**Instructors:** Marsha Robins, Sharon Williams

**Laboratory Technicians:** Gregory Cornell, Brandon Parker

The Department of Chemistry offers professional training in chemistry and in chemistry with a concentration in premedicine. The department's program, leading to the Bachelor of Science in Chemistry, is approved by the American Chemical Society. Courses are also offered for students in allied fields and in general education.

Graduate programs in the department include a Master of Science in Chemistry and a Master of Science in Environmental Science. For details, consult the Southern University Graduate School Catalog.

### CHEMISTRY/CHEMICAL ENGINEERING DUAL DEGREE COOPERATIVE PROGRAM

The Department of Chemistry at Southern University, in conjunction with the Department of Chemical Engineering at Louisiana State University, offers a dual degree Chemistry/Chemical Engineering Program. The student who successfully completes this program receives a Bachelor of Science in Chemistry from Southern University and a Bachelor of Science in Chemical Engineering from Louisiana State University.

### DEGREE REQUIREMENTS

Chemistry majors are required to complete 130 semester hours, of which 52 semester hours must be in chemistry. Students enrolled in programs requiring chemistry courses beyond general chemistry must show credit in CHEM 132. Depending on their previous exposure to chemistry, however, many of these students may be required to complete CHEM 130 as a prerequisite to CHEM 132.

Students concentrating in premedicine are required to complete 50 semester hours of chemistry and a minimum of 12 hours of biology. Chemistry/chemical engineering majors are required to complete 40 semester hours of chemistry, 46 hours of chemical engineering, six hours of mechanical engineering, and three hours of electrical engineering courses.

Students minoring in chemistry are required to complete the following sequence of courses in chemistry: CHEM 112, 113, 132, 133, 220, 221, 230, 231, 242, and 243.

All chemistry majors and minors must earn a minimum grade of "C" in all required and elective courses taken in chemistry, biology, physics, and mathematics. Students must also meet all requirements for the college and the University.

**BACHELOR OF SCIENCE IN CHEMISTRY****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History of Civilization	HIST 114	3	History of Civilization	HIST 115	3
Pre-Calculus II	MATH 140	3	Calculus I	MATH 264	4
Gen. Chemistry Lab	CHEM 112	1	Gen. Chemistry Lab	CHEM 113	1
Gen. Chemistry Lecture	CHEM 132	3	Gen. Chemistry Lecture	CHEM 133	3
Health/PE Activity		2			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Org. Chem. Lecture	CHEM 230	3	Org. Chem. Lecture	CHEM 231	3
Org. Chem. Lab	CHEM 220	1	Org. Chem. Lab	CHEM 221	2
Calculus II	MATH 265	4	Calculus III*	MATH 364	4
Gen. Physics I	PHYS 221	5	Gen. Physics II	PHYS 222	5
Social Science Elective		3	Literature Elective	ENGL	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>17</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Quant Analysis Lecture	CHEM 242	3	Physical Chem.	CHEM 313	3
Quant Analysis Lab	CHEM 243	1	Physical Chem. Lab	CHEM 315	1
Foreign Language**		3	Foreign Language**		3
Physical Chem.	CHEM 312	3	Biology Elective	BIOL	4
Physical Chem. Lab	CHEM 314	1	Natural Science Elective*		3
Microcomp in Chem.	CHEM 455	3	Free Elective		3
Free Elective		3			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>17</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Chemical Research	CHEM 422	2	Chemical Research	CHEM 423	2
Inorganic Chem. Lecture*	CHEM 443	3	Soc. Sci. Elective*		3
Inorganic Chem. Lab*	CHEM 440	2	Chemistry Elective	CHEM	4
Humanities Elective	HUMN	3	Instrumental Analysis*	CHEM 450	3
Free Elective		3	Arts Elective		3
Biochemistry Lecture	CHEM 340	3			
Biochemistry Lab	CHEM 342	1			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>15</b>

\* Students majoring in chemistry with a premedical concentration do not take these courses. They take other departmentally specified courses in their place. See "Chemistry with a Concentration in Premedicine."

\*\* Six hours must be in the same language

**CHEMISTRY WITH A CONCENTRATION IN PREMEDICINE**

A student may major in chemistry with a concentration in premedicine by following the same basic curriculum listed under "CHEMISTRY" while making appropriate course substitutions for those courses denoted by the asterisk\*

Specifically, the chemistry major choosing to concentrate in premedicine must take General Psychology PSYC 210 (three hours), Biochemistry Lecture CHEM 341 (three hours), Biochemistry Laboratory CHEM 343 (one hour), Comparative Anatomy BIOL 241 (four hours), an additional biology elective (four hours), and an additional chemistry elective (three hours).

**DUAL DEGREE PROGRAM****BACHELOR OF SCIENCE IN CHEMISTRY - Southern University****BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING - LSU****First Year at Southern University**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Calculus I	MATH 264	4	Calculus II	MATH 265	4
Gen. Chem. Lecture	CHEM 132	3	Gen. Chem. Lecture	CHEM 133	3
Gen. Chem. Lab	CHEM 112	1	Gen. Chem. Lab	CHEM 113	1
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
History of Civilization	HIST 114	3	History of Civilization	HIST 115	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Second Year at Southern University**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Org. Chem. Lecture	CHEM 230	3	Org. Chem. Lecture	CHEM 231	3
Org. Chem. Lab	CHEM 220	1	Org. Chem. Lab	CHEM 221	2
Literature	ENGL 203	3	Quant. Analysis Lec.	CHEM 242	3
Calculus III	MATH 364	4	Quant. Analysis Lab	CHEM 243	1
Gen. Physics I	PHYS 221	5	Diff. Equations	MATH 370	4
			Gen. Physics II	PHYS 222	5
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>18</b>

**Third Year at Southern University—Cross-register 2nd semester with LSU**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Foreign Language**		3	Foreign Language**		3
Physical Chemistry Lec.	CHEM 312	3	Physical Chemistry Lec.	CHEM 313	3
Physical Chemistry Lab	CHEM 314	1	Physical Chemistry Lab	CHEM 315	1
Computer Science (LSU CR)	2260	1	Statics	CIEN 224	3
Social Science Elective		3	Chem. Engr. (LSU CR)		3
Principles of Health	HLTH 110	2	Chem. Engr. (LSU CR)	2176	3
Chem. Engr. (LSU CR)	2171	3	Chem. Research	CHEM 422	2
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>18</b>

**Fourth Year at LSU—Cross-register with Southern University**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Chem. Engr.	3172	3	Chem. Engr.	3173	3
Chem. Engr.	3101	3	Chem. Engr.	3102	4
Inorg. Chem. (SU CR)	CHEM 443	3	Chem.	3104	3
Econ.	2030	3	Arts Elective (SU CR)		3
Chem. Research	CHEM 423	2	Chem.	4552	2
Elect. Engr.	2950	3	English Literature	2002	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>18</b>

**Fifth Year**

Register at LSU FIRST SEMESTER			Register at Southern University SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Chem. Engr.	4151	4	Chem. Engr. (LSU CR)	4172	4
Chem. Engr. Lab Elective	4162	3	Chem. Engr. Design Elective (LSU CR)		3
Chem. Engr.	4171	3	Mech. Engr. (LSU CR)	2733	3
Chem. Engr.	4190	3	Biology Elective	BIOL	3
Chem.	4553	2	Humanities Elective		3
Chem. Engr.	4198	3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>16</b>

**Department of Computer Science****Chair:** Ebrahim Khosravi**Professors:** Sudhir Trivedi, Ebrahim Khosravi**Associate Professor:** Shuju Bai**Assistant Professors:** Alvin Allen, Deanna Allen-Roquemore, Theda Augustus, Jessie Bethly-Betz, Nigel Gwee, Alonzo Johnson, Osman Kandara, Mathieu Kourouma, Douglas Moreman, Abdus Salam**Instructors:** Marilyn Gray, David Sylvester**Coordinator of Resources:** Muriel Johnsonu**Administrative Assistant:** Ashantia Roberson

The Department of Computer Science offers courses for students to acquire knowledge of computers and computer applications. The department assists students in the determination of career goals through academic advisement and it enriches instruction through faculty research.

The department's programs are designed to encourage and foster the professional growth of students through their participation in and affiliation with professional organizations. Two programs leading to the Bachelor of Science degree are offered - the Scientific Option and the Information Systems Option.

Both options are accredited by the Computing Accreditation Commission (CAC) of ABET, 111 Marketplace Suite 1050, Baltimore, MD., 21202-4012, (410) 347-7700. The Scientific Option is designed to provide the major with a firm foundation for graduate study, scientific research, and careers in scientific computing. The Information Systems Option is designed to provide firm foundations for graduate study,

research, and job careers in a commercial setting.

The department also offers a minor program which requires a minimum of 21 semester hours in computer science courses. Those courses are selected by the recommendation of an advisor. Also, the department offers four courses (CMPS 105, 290, 291, 292) for students seeking to achieve a measure of computer literacy.

For details on the department's graduate program refer to the Southern University Graduate School Catalog.

## ADMISSION REQUIREMENTS

In order to be admitted to the undergraduate program in computer science, a student must satisfy the requirements for University College, College of Sciences and have completed CMPS 190 and 191 with a minimum grade of "C", as well as, completed MATH 140 or MATH 264 with a grade of "C" or better in each course.

## DEGREE REQUIREMENTS

The Computer Science Scientific Option requires 139 semester hours, of which 60 hours must be in Computer Science, 18 hours in Natural Science, and 18 hours in Mathematics. The Computer Science Information Systems Option requires a total of 142 semester hours of which 54 hours must be in Computer Science, 15 hours in Business, and 14 hours in Mathematics. Students must earn a minimum grade of "C" in all required and elective courses in Computer Science, Biology, Chemistry, Physics, Mathematics, and Business.

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE–Scientific Option

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminars I	FRMN 110	1	Freshman Seminars II	FRMN 111	1
Programming I	CMPS 190	3	Programming II	CMPS 191	3
Calculus I	MATH 264	4	Calculus II	MATH 265	4
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History of Civilization	HIST 114	3	History of Civilization	HIST 115	3
Health or P.E.		2	General Biology	BIOL	4
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>18</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Discrete Structures	CMPS 200	3	File Management	CMPS 202	3
Data Structures	CMPS 201	3	Data Base Programming	CMPS 390	3
Linear Algebra	MATH 233	3	Object-Oriented Program	CMPS 370	3
Literature Elective	ENGL	3	Statistics	MATH 276	3
General Chemistry	CHEM 132/112	4	Arts Elective		3
<b>TOTAL</b>		<b>16</b>	Free Elective		3
			<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Programming Languages	CMPS 300	3	Digital Data Networks	CMPS 334	3
Computer Organization	CMPS 302	3	Numerical Methods	CMPS 407	3
Scientific Programming	CMPS 360	3	Software Engr.	CMPS 378	3
General Physics	PHYS 221	5	General Physics	PHYS 222	5
Calculus III	MATH 364	4	Free Elective		3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>17</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Operating Systems	CMPS 400	3	Computer Architecture	CMPS 402	3
Theory of Computing	CMPS 412	3	Database Management	CMPS 420	3
CMPS Elective	CMPS	3	CS Sr. Seminar	CMPS 450	3
Foreign Language	FOLG	3	CMPS Elective	CMPS	3
Humanities Elective		3	Foreign Language	FOLG	3
Social Science Elective		3	Social Science Elective		3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**BACHELOR OF SCIENCE IN COMPUTER SCIENCE—Information Systems Option****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar I	FRMN 110	1	Freshman Seminar II	FRMN 111	1
Programming I	CMPS 190	3	Programming II	CMPS 191	3
Calculus I	MATH 264	4	Calculus II	MATH 265	4
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History of Civilization	HIST 114	3	History of Civilization	HIST 115	3
Free Elective		3	General Biology	BIOL	4
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>18</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Discrete Structures	CMPS 200	3	File Management	CMPS 202	3
Data Structures	CMPS 201	3	Data Base Programming	CMPS 390	3
Literature Elective	ENGL	3	Obj. Oriented Programming	CMPS 370	3
General Physics	PHYS 221	5	General Physics	PHYS 222	5
Business Elective		3	Linear Algebra	MATH 233	3
Health or P.E.		2			
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>17</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Programming Languages	CMPS 300	3	Software Engr.	CMPS 378	3
Computer Organization	CMPS 302	3	Digital Data Networks	CMPS 334	3
Statistics	MATH 276	3	Information Systems	CMPS 315	3
Management Behavior	MGMT 300	3	Quan. Anal. in Business	MGMT 306	3
Natural Science Elective		4	Business Elective		3
Humanities Elective		3	Free Elective		3
<b>TOTAL</b>		<b>19</b>	<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Operating Systems	CMPS 400	3	Database Mgmt Systems	CMPS 420	3
Systems Analysis	CMPS 415	3	CS Sr. Seminar	CMPS 450	3
CMPS Elective	CMPS	3	CMPS Elective	CMPS	3
Business Elective		3	Foreign Languages	FOLG	3
Foreign Language	FOLG	3	Social Science Elective		3
Social Science Elective		3	Arts Elective		3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**COMPUTER SCIENCE ELECTIVES**

A computer science student may select computer science electives from a list of courses, which provides breadth and depth for the student's professional growth. Any 300-level or 400-level computer science course offered which is not specified as a required course for either option may be used as student's computer science elective.

CMPS 250	Introduction to Programming with COBOL
CMPS 307	Numerical Analysis
CMPS 350	Web Based Programming
CMPS 365	Computers, Information and Society
CMPS 371	Advanced Object Oriented Programming
CMPS 375	Introduction to Information Security
CMPS 380	Software Process Quality
CMPS 387	Object-Oriented Design Patterns
CMPS 402	Computer Organization
CMPS 404	Compiler Construction
CMPS 432	Distributed Processing
CMPS 433	Telecommunications
CMPS 434	Graph Theory and Networks
CMPS 435	Neural Networks
CMPS 455	Special Projects
CMPS 470	Computer Graphics
CMPS 480	Artificial Intelligence

**NON-CMPS ELECTIVES**

Some computer science courses are designed primarily for non-majors and cannot be used as electives (CMPS 105, CMPS 270, CMPS 290, CMPS 291, and CMPS 292).

## Department of Mathematics

**Chair:** Lawrence Couvillon

**Professors:** Lawrence Couvillon, Joseph Meynsse, Horace Smith

**Associate Professors:** Walfredo Javier, Jung-Soon K. Lee, Deborah Clark, Curtis Means,  
Raj Prabakaran, Zhongde Yan, Humberto Munoz, Ernst Pierre

**Assistant Professors:** Katrina Cunningham, Debra A. Davidson, Huber Lamotte, Solomon Idowu,  
Carolyn Jacobs, Lonnie Machen, John L. McGee, Ted Morgan, Irene Sze,  
Kao Sze, Jeffery Thomas, Caroline Robins

**Instructors:** Kissie Anderson, Marlena Batiste, Troy Bryant, Ronald Colman, Venice Holliday,  
Valisia Mansfield, Christopher Marshall, Marquette Young

**Network Manager:** Jason Chang

**Director of Math Lab:** Jessie Foster

The Department of Mathematics offers undergraduate degree programs in mathematics which will enable graduates to secure employment or pursue further study and research. Additionally, the department provides specialized training for high school and middle school teachers.

The undergraduate program of study leads to the Bachelor of Science in Mathematics. The department offers a Master of Science Degree in Mathematics. The department also provides course work for students enrolled in the Ph.D. program in Science and Mathematics Education. Further information on graduate offerings is available in the Southern University Graduate School Catalog, or the Southern University Department of Mathematics web page.

The department offers a minor in mathematics. The courses are selected as recommended below and must be approved by the department.

### DEGREE REQUIREMENTS

A student must complete 128 semester hours with a grade of “C” or better in all math courses presented to fulfill the major requirements in the curriculum. These hours must include:

- A minimum of 43 semester hours in mathematics courses numbered above 200. MATH 233, 250, 264, 265, 276, 330, 364, 365, 370, 462 with the remaining hours coming from the following blocks of courses, with at least one course from each block. B1 = (346, 401, 446, 450, 492, 499), B2 = (432, 433, 435), B3 = (379, 390, 463, 470, 472, 474, 475, 476, 477). It is recommended that a mathematics major take more than the minimum 43 hours required, particularly, if the student intends to attend graduate school.
- Twenty-two semester hours of free electives (usually selected from other departments) approved by the advisor and the department chair. It is expected that the selected free electives be approved early in the candidates’ program of study.
- Six semester hours of foreign language. These six hours must be in the same language.
- At least six semester hours of computer science.
- Fourteen semester hours of natural sciences; must include biological and physical sciences. Eight hours must be in a two-semester sequence. These hours include either BIOL 104 and 106 or BIOL 105 and 107. The PHYS 221 and 222 sequence must be taken by each math major.
- Twelve semester hours of English. These hours include Freshman Composition, ENGL 110 and 111; English Literature (200 Level), and Technical Writing, ENGL 362.

### Requirements for a Mathematics Minor

Students minoring in mathematics are required to complete 24 hours of mathematics at the 200 level and above, with a grade of “C” or better in all courses required in the curriculum for a mathematics

minor. The required 24 hours in mathematics minor must include MATH 233, 264, 265 and one course from each of blocks B1, B2, and B3 above. MATH 200, 203, 204, 205, 274, 275, and courses numbered 480's or 580's, may not be included in the 24 hours for a mathematics minor.

## BACHELOR OF SCIENCE IN MATHEMATICS

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History of Civilization	HIST 114	3	History of Civilization	HIST 115	3
Calculus I	MATH 264	4	Calculus II	MATH 265	4
Biology Elective	BIOL	4	Foreign Language		3
			Health/PE Activity		2
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intro to Linear Alg.	MATH 233	3	Topics in Geometry	MATH 250	3
Calculus III	MATH 364	4	Diff. Equations	MATH 370	4
Foreign Language		3	Technical Writing	ENGL 362	3
Literature Elective	ENGL	3	Arts Elective		3
Free Elective		3	Humanities Elective		3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

### Junior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Modern Alg. I	MATH 330	3	Statistics for Math. and Engr.	MATH 276	3
General Physics	PHYS 221	5	Social Science Elective		3
Humanities Elective		3	General Physics	PHYS 222	5
Social Science Elective		3	Computer Science	CMPS 201*	3
Advanced Calculus	MATH 365	3	Free Elective		3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>17</b>

### Senior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Real Analysis	MATH 462	3	Math Electives	MATH	6
Math Elective	MATH	3	Free Electives		9
Free Electives		7			
Computer Programming	CMPS 270	3			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>

\*Advisor may substitute an approved computer science course.

## Department of Physics

**Chair:** Diola Bagayoko

**Professors:** Diola Bagayoko, Rambabu Bobba, Jiangdi Fan, Ali Fazely, Dong Sheng Guo, Laurence Henry, Pui-Man Lam, James Matthews (JFAP), Stephen C. McGuire, Rama Mohanty, Jin Tong Wang, Tienher Wang, Guanglin Zhao

**Associate Professors:** Terrence Reese, J. Gregory Stacy (JFAP)

**Assistant Professor:** Edward E. Doomes

**Adjunct Instructor:** Donna Harrison

**Laboratory Technician:** Joseph H. Stewart

**Secretary:** Emma Allen

The Department of Physics provides students with a thorough background in general physics for the science or technology major and provides training in the elements of physics for secondary school science teachers. Physics majors are provided with a firm, effective foundation for professional advancement, graduate study, and a successful career as a research scientist.

The versatility of physics, a foundation to many science, technological, and interdisciplinary fields and professions, opens numerous options to a holder of the bachelor's degree in physics. Physics majors can tailor their curriculum to prepare for a career or advanced studies and research in physics, quantum chemistry, most engineering fields (electrical, mechanical, or material engineering), medicine (including biophysics), and patent law to name a few. Materials science, telecommunications, and many interdisciplinary sciences and technologies rest on physics. Students should consult their departmental advisors for the selection and proper sequencing of courses.

### DEGREE REQUIREMENTS

Physics majors are required to complete a total of 128 semester hours of which 52 credit hours must be in physics. Physics majors must earn a grade of "C" or better in each course in the major required for the degree. PHYS 271, 311, 341-342, 345, 411, 416-417, 425, and 435 must be completed. Other required physics courses include 251-252 or 221-222 sequence, the latter with permission of the department. Other suggested physics courses include topical area courses (astronomy, condensed matter, particle, or computational physics; energy; radiation; biophysics, etc.). These are described in the section of the catalog that lists the courses.

Before graduation, physics majors must pass a departmental comprehensive examination. The examination is given each semester for juniors and seniors and may be repeated.

Additionally, there are general graduation requirements of the College of Sciences. A minimum of three-semester sequence in calculus is required for physics majors. The minor in physics requires at least 22 hours of physics and must include PHYS 221-222, or 251-252, 271, 341, and 342.

### FINANCIAL SUPPORT AND RESOURCES

The Departmental Computer Network (DCN)-connected to the nationwide network of supercomputers via fiber optic cables-is integrated in physics teaching, learning, and research. Instructional and research computer laboratories are linked to the DCN and hence to the information superhighway (Internet, World Wide Web). Well-equipped instructional and research laboratories are available to physics majors.

The department offers its students exceptional educational and career opportunities through its collaboration with the Laser Interferometer Gravitational-wave Observatory (LIGO), a major National

Science Foundation-funded research project. Current information on the Southern University-LIGO Research Project can be obtained by contacting the Southern University LIGO Scientific Collaboration Principal Investigator.

The Timbuktu Academy and the University offer significant financial support to selected physics majors. This Academy is a national model program for undergraduate advisement, mentoring, research participation, and guidance to graduate school. The World Wide Web site of the department and of the Timbuktu Academy provides additional details at <http://www.phys.subr.edu>.

## GRADUATE DEGREE PROGRAM IN PHYSICS

In the fall of 1996, the Department of Physics began a master's degree program that prepares students for further studies (i.e., doctoral studies) in physics and related fields and for careers in high technology industries.

The graduate component of the Timbuktu Academy offers significant financial support for selected graduate students. For further information on the Master's Degree Program in Physics, consult the Southern University Graduate School Catalog.

## BACHELOR OF SCIENCE IN PHYSICS—TYPICAL PATTERN

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Discovery in Physics	PHYS 145	3	Intermediate Physics I	PHYS 251	5
Calculus I	MATH 264	4	Calculus II	MATH 265	4
General Chemistry Lecture	CHEM 132	3	General Chemistry Lecture	CHEM 133	3
General Chemistry Lab	CHEM 112	1	General Chemistry Lab	CHEM 113	1
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Health/PE Activities		2			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>17</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intermediate Physics II	PHYS 252	5	Modern Physics	PHYS 271	3
Calculus III	MATH 364	4	Mathematical Physics	PHYS 311	3
Programming in Physics	PHYS 200	3	Humanities Elective		3
History Sequence	HIST	3	History Sequence	HIST	3
Literature Elective	ENGL	3	Technical Writing	ENGL 362	3
			Physics Elective		3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

### Junior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Experimental Physics I	PHYS 341	3	Experimental Physics II	PHYS 342	3
Advanced Mechanics I	PHYS 416	3	Advanced Mechanics II	PHYS 417	3
Thermodynamics	PHYS 345	3	Adv. E & M Theory I	PHYS 425	3
Adv. Math. Physics	PHYS 411	3	Free Electives		3
Free Electives		3	Gen. Biology Lecture	BIOL	3
			Gen. Biology Lab	BIOL	1
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Quantum Physics I	PHYS 435	3	Physics Elective	PHYS	3
Free Elective		3	Free Elective		3
Social Science Elective		3	Social Science Elective		3
Computational Physics	PHYS 400	3	Art Elective		3
Foreign Language	100	3	Foreign Language	101	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

## Department of Psychology

**Chair:** Murelle G. Harrison

**Professors:** Murelle G. Harrison, Cecil Duncan, Reginald Rackley, Jocelyn Freeman-Bonvillain

**Associate Professors:** Catrice Tolbert-Hill, Gerald Hecht

**Assistant Professor:** Rahsheda Perine

**Adjunct Professor:** Richard Flicker

**Instructor:** Billy Sibley

**Administrative Assistant:** Emelda A. Jefferson

The Department of Psychology offers courses designed to foster an understanding of behavior. The department's undergraduate degree program leads to the Bachelor of Science in Psychology. Substance abuse modules have been incorporated into selected courses as well as four specific courses in substance abuse indicating eligibility to take the substance abuse counselor certification examination upon graduation. Interested students should discuss this option with their advisor.

A chapter of Psi Chi, the national honor society of psychology, is organized in the department. Eligibility for membership is determined by chapter bylaws.

### DEGREE REQUIREMENTS

The Bachelor of Science in Psychology is awarded to students who have satisfactorily completed the following requirements:

- All University general education requirements.
- All general education requirements in the College of Sciences.
- Forty-four hours in psychology courses, including 15 hours of psychology electives. The required psychology courses are General Psychology PSYC 210, Elementary Statistics PSYC 274, Advanced Statistics PSYC 277, Field Experience PSYC 303, Psychological Research PSYC 312, Psychological Testing PSYC 360, Experimental Psychology PSYC 412, Abnormal Psychology PSYC 468, and History and Systems PSYC 488. Fifteen hours of subject matter courses may be selected from courses numbered 300 and above in consultation with the academic advisor.

A minor in psychology requires a minimum of 21 hours of subject matter courses to include Elementary Statistics, General Psychology, and Abnormal Psychology. The remaining 12 hours required for the minor should be selected in consultation with an advisor in the Department of Psychology and approval by the departmental chair.

**BACHELOR OF SCIENCE IN PSYCHOLOGY****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
College Mathematics I	MATH 130	3	College Mathematics II	MATH 131	3
General Biology	BIOL 104	4	History of Civilization	HIST 115	3
History of Civilization	HIST 114	3	Natural Science Elective		4
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Free Elective		3	Health/PE Activity		2
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
General Psychology	PSYC 210	3	Elementary Statistics	PSYC 274	3
Computer Science Elective	CMPS 105/290	3	Social Science Electives		6
Natural Science Elective		3	Foreign Language		3
Foreign Language		3	Literature Elective	ENGL	3
Psychology Elective	PSYC	3	Psychology Elective		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Advanced Statistics	PSYC 277	3	Psychological Research	PSYC 312	4
Psychological Testing	PSYC 360	3	Arts Elective		3
Free Elective		3	Abnormal Psychology	PSYC 468	3
Humanities Elective		3	Psychology Elective		3
Psychology Elective		3	Free Elective		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Experimental Psychology	PSYC 412	4	Field Experience	PSYC 303	3
History and Systems	PSYC 488	3	Psychology Elective	PSYC	3
Free Electives		6	Free Electives		9
Psychology Elective	PSYC	3			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>

## Department of Rehabilitation and Disability Studies

**Chair:** Madan Kundu

**Professors:** Madan Kundu, Doreen Miller

**Associate Professors:** Frank Puckett, Carliss Washington

**Assistant Professor:** Alo Dutta

**Instructor:** Phyllis Gales

**Adjuncts:** Sharon Brown, Fong Chan, Cynthia Manson, Mark Martin, William Philadelphia, John Schweitzer, Cynthia Scott, Alison Shipp, Alma Stewart, Michael Welch, Henry Wong

### REHABILITATION SERVICES

The Rehabilitation Services program is designed to provide students with a broad knowledge of the rehabilitation field at the baccalaureate level. The program of study prepares students for entry-level positions in the rehabilitation agencies, community rehabilitation programs, independent living programs, and other human services fields.

### DEGREE REQUIREMENTS

The Bachelor of Science in Rehabilitation Services is awarded to students who have successfully completed the following requirements:

- All University general education requirements.
- All general education requirements in the College of Sciences
- Forty-nine semester hours of core courses including General Psychology PSYC 210, Elementary Statistics PSYC 274, Pre-Field Placement REHB 300, Field Experience REHB 301, Field Experience REHB 302, Introduction to Rehabilitation REHB 340, Rehabilitation Evaluation REHB 361, Occupational Information and Job Placement REHB 372, Psychological Testing PSYC 360, Physical Aspects of Disability REHB 390, Psychosocial Aspects of Disability REHB 391, Community Resources REHB 410, Rehabilitation Research REHB 415, Special Problems in Rehabilitation REHB 493, Principles of Rehabilitation Counseling REHB 481, and Applied Behavior Analysis PSYC 485.
- Nine semester hours of course work must be completed in high-demand specialty areas (Supported Employment REHB 470, Independent Living REHB 473, and Assistive Technology REHB 475).
- Students must earn a grade of "C" or better for courses to fulfill the major requirements.

A minor in rehabilitation services requires satisfactorily completing Introduction to Rehabilitation 340, Rehabilitation Evaluation 361, Occupational Information and Job Placement 372, Physical and Psychosocial Aspects of Disability I 390, Physical and Psychosocial Aspects of Disability II 391, Community Resources 410, and Principles of Counseling 481 and one of the high-demand specialty area courses (REHB 470, REHB 473, OR REHB 475).

### BACHELOR OF SCIENCE DEGREE IN REHABILITATION SERVICES

#### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
College Mathematics I	MATH 130	3	College Mathematics	MATH 131	3
General Biology	BIOL 104/107	4	History of Civilization	HIST 115	3
History of Civilization	HIST 114	3	Freshman Seminar	FRMN 111	1
Health/PE Activity		2	Computer Science Elective	CMPS105/290	3
Freshman Seminar	FRMN 110	1	Natural Science Elective		3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Foreign Language		3	Foreign Language		3
General Psychology	PSYC 210	3	Elementary Statistics	PSYC 274	3
Physical Science Elective		3	Intro to Rehabilitation	REHB 340	3
Literature Elective		3	Social Sciences Elective		3
Social Science Elective		3	Supported Employment	REHB 470	3
Art Elective		3	Free Elective		3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Humanities Elective		3	Rehab. Evaluation	REHB 361	3
Psychological Testing	PSYC 360	3	Pre-Field Experience	REHB 300	3
Phys/Psych Aspects I	REHB 390	3	Occup. Info. & Job Placement	REHB 372	3
Community Resources	REHB 410	3	Phy./Psych. Aspects II	REHB 391	3
Assistive Technology	REHB 475	3	Free Elective		4
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Rehabilitation Research	REHB 415	4	Special Problems in Rehb.	REHB 493	3
Field Experience	REHB 301	3	Field Experience	REHB 302	3
Principles of Counseling	REHB 481	3	Free Electives		7
Applied Behavior Analysis	PSYC 485	3	Independent Living	REHB 473	3
Service Learning	SVLR 400	3			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

**Department of Social Work**

**Chair:** Demetria H. McJulien

**Professor:** Demetria H. McJulien

**Associate Professors:** Betty J. Briggs, Lacey M. Tillotson

**Assistant Professors:** Barbra J. Bilberry, Erma J. Borskey, Roslyn C. Richardson, Gloria J. Thompson, Margery S. Williams

**Administrative Assistant:** Carrie Bowie

The Department of Social Work prepares students to practice social work at the baccalaureate professional level. The department also prepares students to enter graduate schools of social work and related disciplines.

The baccalaureate degree program is accredited by the Council on Social Work Education, the national standard-setting body for social work education. Graduates of this department are eligible to obtain registration, certification, or licensure credentials. They are able to apply to graduate schools offering a Master of Social Work degree including accelerated programs.

Membership in National Social Work Honor societies is available to students who show academic excellence. The Social Work Action Club is a major vehicle for student involvement in internal and external program affairs. Students are eligible for membership in the National Association of Social Workers, the National Association of Black Social Workers and other professional social work associations.

No credit for life experiences is granted by the department.

## ADMISSION REQUIREMENT

Application to the Department of Social Work may be made during the sophomore year. Students are urged to seek advisement from the Department of Social Work regarding specific required prerequisites.

Students will be admitted to the Department of Social Work without discrimination in regard to age, class, color, disability, ethnicity, family structure, gender, marital status, national origin, race, religion, sex, sexual orientation, or any other non-merit factors. Students will be admitted only after they have satisfied all of the following requirements:

- Transferred to the College of Sciences
- Passed the University Writing Proficiency Examination
- Earned a minimum cumulative grade point average of 2.0
- Earned a minimum grade of "C" in SOCW 198 and SOCW 200 and SOCW 298
- Accepted by the Social Work Admissions Committee

Students will be permitted to take required junior level social work courses only after admission into the Department of Social Work.

The Department of Social Work reserves the right to admit and retain only those students who demonstrate the knowledge, values, skills and professionalism necessary to practice social work at the baccalaureate level.

## DEGREE REQUIREMENTS

The Bachelor of Science in Social Work is awarded to students who have satisfactorily completed 128 semester hours including 48 credit hours in required social work courses and 10 credit hours in social work electives and the following:

- Admission to the Department of Social Work
- All University General Education and College of Sciences requirements
- All departmental requirements

## BACHELOR OF SCIENCE IN SOCIAL WORK

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History Sequence**	HIST	3	History Sequence**	HIST	3
College Math	MATH 130	3	Math Elective	MATH	3
Biology Lec	BIOL 104	3	Biology Lec	BIOL 105	3
Biology Lab ***	BIOL 106	1	Orient to Social Work*	SOCW 198	3
Principles of Health	HLTH 110	2			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

\*\*HIST 224/225 highly recommended for Social Work majors. History 104/105 and 114/115 accepted.

\*\*\*One biology lab is required. BIOL 106 (taken with BIOL104) or BIOL 107 (taken with BIOL105) accepted.

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
American Government	POLS 200	3	General Psychology	PSYC 210	3
Prac. Writ. & Vocab.	ENGL 208	3	Literature Elective	ENGL	3
Intro to Sociology	SOCL 210	3	Intro to Soc Wel Pol*	SOCW 270	3
Physical Science Elective	CHEM/PHYS	3	Intro to SW Practice*	SOCW 298	3
Foreign Language**		3	Foreign Language**		3
Social Work as a Profession*	SOCW 200	3	Social Work Electives	SOCW	2
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>17</b>

\*\*Spanish recommended.

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
SW Pol Analy and Form*	SOCW 370	3	Humanities Electives		3
Human Beh and the Soc Env I*	SOCW 380	3	Human Beh. and		
Gen Soc Work Prac I*	SOCW 393	3	the Soc. Env. II*	SOCW 381	3
Gen Soc Work Prac Lab*	SOCW 394	2	Gen Soc Work Prac II*	SOCW 395	3
Computer Science Elective**	CMPS	3	Intro to Field Instruction*	SOCW 396	2
Introduction to Research*	SOCW 310	3	Statistics	PSYC/MATH/SOCL	3
			Social Work Electives		2
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

\*\*Select from CMPS 105 or 290.

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Hum Beh Seminar*	SOCW 400	1	Field Instruction II*	SOCW 492	4
Social Work Research*	SOCW 410	3	Field Instruction Sem II*	SOCW 493	1
Field Instruction I*	SOCW 490	4	Social Work Electives		5
Field Instruction Sem I*	SOCW 491	1	Free Elective		2
Free Electives		3			
Social Work Elective		1			
Arts Elective		3	<b>TOTAL</b>		<b>12</b>
<b>TOTAL</b>		<b>16</b>			

\*Required Course for Social Work majors.

**Note:** Sixty hours of community service required for graduation. Completed through SVLR 100, 200 and 300, or 400, may be used as a free elective.

## Department of Sociology

**Interim Chair:** Christopher Hunte

**Professors:** Christopher Hunte, Ollie Christian, Diane C. Keithly, Elouise J. Spencer, Alma T. Thornton

**Associate Professor:** Riad Yehya

**Assistant Professor:** Anthony Igiede

**Instructor:** Anthony Lawrence

The Department of Sociology provides programs of study leading to the Bachelor of Science Degree in Sociology. The department prepares students for employment in research and/or policy analysis positions in government, social service organizations, business and industry, and for graduate study in sociology.

Additionally, sociology offers courses and programs to students in other instructional areas of the University and the larger community. The department has a chapter of Alpha Delta National Sociology Honor Society. The Sociology Club is an integral part of majors' experiences.

### DEGREE REQUIREMENTS

#### B.S. Degree in Sociology

A student majoring in sociology must complete a total of 128 semester hours of which 42 semester hours must be in sociology, including the following required courses: Introduction to Sociology SOCL 210, Contemporary Social Problems SOCL 220, Social Psychology SOCL 320, Problems of Marriage and Family SOCL 335, Social Statistics SOCL 350, Urban Community SOCL 428, Minority Group Relations SOCL 434, Social Research 450, Sociological Theory SOCL 455, Juvenile Delinquency and Its Treatment SOCL 485, Senior Seminar SOCL 499, and nine (9) hours of electives in sociology. Students may take an additional nine (9) credit hours for a concentration in one of the following areas: social psychology, deviancy, demography and human ecology, intergroup relations, and research methodology.

A minor in the sociology consists of at least twenty-one (21) semester hours that should include Introduction to Sociology SOCL 210, Contemporary Social Problems SOCL 220, Social Statistics SOCL 350, Social Research SOCL 450, Sociological Theory SOCL 455, and Senior Seminar SOCL 499.

Students may concentrate in **Forensic Science Criminology** by taking the following courses: **Introduction to Cultural Anthropology** (SOCL 314), **Social Psychology** (SOCL 320), **Deviant Behavior** (SOCL 382) or **Juvenile Delinquency** (SOCL 485), **Introduction to Forensic Science** (SOCL 400), **Criminology** (SOCL 424), **Penology** (SOCL 425), and **Sociology Internship** (SOCL 445).

### BACHELOR OF SCIENCE IN SOCIOLOGY

#### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Freshman English	ENGL 110	3	Freshman English	ENGL 111	3
History	HIST 114	3	Mathematics	MATH 131	3
Mathematics	MATH 130	3	Computer Science	CMPS 105	3
Prin. of Health	HLTH 110	2	Science Elective		3
	HLTH 210		History	HIST 115	3
General Biology	BIOL 104	4			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intro to Sociology	SOCL 210	3	Soc. Psychology	SOCL 320	3
Literature	ENGL	3	Literature Elective	ENGL	3
Foreign Language	FOLG	3	Foreign Language	FOLG	3
Natural Science Elective		3	Humanities Elective	HUMN	3
Contemporary Social Prob.	SOCL 220	3	Soc. Sci. Electives		6
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>18</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Social Statistics	SOCL 350	3	Social Research	SOCL 450	3
Marriage & Family	SOCL 335	3	Minority Group Relations	SOCL 434	3
Sociology Elective	SOCL	3	Free Electives		9
Free Electives		6			
Arts Elective		3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>15</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Sociological Theory	SOCL 455	3	Senior Seminar	SOCL 499	3
Urban Community	SOCL 428	3	Juvenile Delinquency	SOCL 485	3
Sociology Elective	SOCL	3	Sociology Elective	SOCL	3
Free Electives		6	Free Electives		6
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Department of Speech-Language Pathology**

**Chair:** Patricia Brazier-Carter

**Professors:** Stephen C. Enwefa, Elaine Bremer Lewnau, Carolyn Person

**Associate Professor:** Regina Enwefa

**Assistant Professor:** Patricia Brazier-Carter

**Instructor:** Carol Stoot

The Department of Speech-Language Pathology provides a program of study leading to the Bachelor of Science in Speech-Language Pathology. Students enrolled in this program must complete a total of 130 semester hours, of which 57 semester hours must be in speech pathology and audiology courses as follows: 15 semester hours in basic speech and language courses, nine semester hours in audiology courses, 21 semester hours in communicative disorders courses, nine semester hours in assessment and therapeutic courses, and three hours of electives. Additionally, students may obtain a maximum of 100 clock hours of supervised clinical practicum.

**BACHELOR OF SCIENCE IN SPEECH-LANGUAGE PATHOLOGY****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Biology Elective		4	Physical Science Elective		4
History Sequence		3	History Sequence		3
College Math I	MATH 130	3	College Math II	MATH 131	3
Health/PE Activity		2	Freshman Seminar	FRMN 111	1
Freshman Seminar	FRMN 110	1	General Speech	SPAU 210	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>17</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Phonetics	SPAU 230	3	Articulation Disorder	SPAU 320	3
Literature Elective	ENGL	3	Anat./Ear & Vocal Mech.	SPAU 270	3
Speech and Language	SPAU 250	3	Intro to Audiology	SPAU 280	3
Foreign Language		3	Foreign Language		3
Anat./Ear & Vocal Mech.	SPAU 270	3	American Government	POLS 200	3
Intro to Comm. Dis.	SPAU 260	3	Arts Elective		3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>15</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Voice Science	SPAU 310	3	Developmental Psychology	PSYC 445	3
Anatomy & Physiology	BIOL 223	4	Voice Disorders	SPAU 355	3
Survey of Except. Child	SPED 300	3	Diagnostic Methods	SPAU 466	3
or Psych. of Except. Child	PSYC 400	3	Lab in Speech-		
Computer Science Elective	CMPS 105/290	3	Language Pathology	SPAU 467	1
Language Disorders	SPAU 365	3	Elementary Statistics	PSYC 274	3
			Adv. Hearing Testing	SPAU 340	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intro to Clinical Practicum	SPAU 468	2	Adv. Clinical Practicum	SPAU 469	3
Aural Rehab.	SPAU 345	3	Language and Culture	SPAU 470	3
Orofacial Disorders	SPAU 472	3	Neurological Disorders	SPAU 474	3
Psych. of Adjustment	PSYC 200	3	Disorders of Rhythm	SPAU 460	3
or Mental Hygiene	SPED 480	3	Humanities Elective		3
Social Science Elective		3			
Free Elective		3			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>15</b>

# School of Architecture

**Dean:** Lonnie Wilkinson

**Associate Professor:** Jill Bambury

**Assistant Professors:** Jasmond Anderson, John L. Delgado Jr., Jin Hoon Lee, Jason Lockhart,  
Kim Anthony Ross, Archie Tiner Jr.

**Adjunct Professors:** Gerald Billes, Todd Hines, Walter Zehner

**Instructor:** Larry Livaudais

The School of Architecture offers a fully accredited five-year program of study leading to the first professional degree of Bachelor of Architecture. The mission of the school is to support the historic mission of the university, prepare graduates for leadership roles as architects, and to advocate for African-Americans in the profession of architecture; engender in graduates a commitment to service to the community and its built environment; prepare graduates to excel in graduate and professional environments, and to compete globally.

A graduate of the first professional degree program may choose advanced educational pursuits or entry into the practice of architecture as an intern.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Masters degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

## ADMISSION REQUIREMENTS

Admission to the school is open to students upon the successful completion of the Basic Freshman Studies Program in the University College. Students may not begin their first year architecture courses until all remedial courses are satisfactorily completed. Students who apply for admission to the School of Architecture must submit the following:

- A portfolio of creative graphic work
- An essay that explains why he or she wants to become an architect and what will be his or her contribution to society
- A visit to the School of Architecture by both applicant and parents is not mandatory, however it is highly recommended

Transfer students from other degree-granting areas of the University and transfer students from other approved colleges and universities may be accepted following evaluation by the School of Architecture.

## Students in the University College and the School of Architecture

To be admitted into the third year of the architecture program, a student must meet the following minimum requirements:

- Attain at least a 2.5 grade point average and earn a minimum grade of “C” on a minimum of 20 semester hours of college credit courses in the following core courses in the University College:

- » Freshman composition, English 110, English 111, 6 credits.
- » Mathematics 135 and 140, 6 credits.
- » Natural Science (Physics 141, and Biology 104/105), 8 credits.
- Attain at least a 2.5 grade point average and earn a minimum grade of “C” in all of the following architecture courses:
  - » ARTS 130, 3 credits
  - » Studio I (ARCH 104), Studio II (ARCH 105), 6 credits
  - » Studio III (ARCH 204), Studio IV (ARCH 205), 10credits
  - » Representation I, II, and III (ARCH 118, 119, and 219), 6 credits
  - » Architectural History I and II, (ARCH 210, 211), 6 credits
  - » Introduction to Architecture (ARCH 111), 2 credits
  - » Introduction to Construction (ARCH 212), 3 credits
  - » Introduction to Construction Studio (ARCH 213), 2 credits
  - » Practicum (ARCH 266), 1 credit
- Submit a portfolio of first and second year work to the school
- Own a laptop computer that meets the minimum specifications required by the school
- Be officially advised by an advisor from the School of Architecture

Students may not begin their third year architecture courses until all first and second year courses as listed above (in both the University College and the School of Architecture) are satisfactorily completed (attain at least a 2.5 grade point average and earn a minimum grade of “C” in each course).

### **Transfer from Other Areas of the University**

Students transferring from other colleges at the University must meet the same requirements as students transferring from the University College.

Transfer credits are acceptable for the Bachelor of Architecture degree program if they represent course requirements in the School’s curriculum. Course work pursued at other colleges shall be reviewed by the appropriate School committee and approved by the dean of the school for its applicability to the requirements for the degree.

### **Freshman Seminar**

Students are required to take freshman seminar or its equivalent during the first year of matriculation at Southern University to meet graduation requirements. In addition, transfer students must adhere to the following:

- Students who have earned 24 credit hours or less at another institution are required to take freshman seminar or its equivalent;
- Students who have earned more than 24 credit hours from another institution are not required to take freshman seminar as a requirement for graduation.

### **Transfer from Other Universities**

Students transferring from other approved colleges or universities must meet the admission requirements of the University and the requirements for persons transferring from the University College.

Transfer students must submit an official transcript of courses completed at other institutions together with evidence of good standing to the Registrar at Southern University, Baton Rouge.

Course work (including design portfolios) pursued at other institutions shall be reviewed by the appropriate School committee and approved by the dean of the school for its applicability to the requirements for the degree.

## Technical Electives

The Bachelor of Architecture Program currently provides the students with a diversity of options for pursuing special interest. Fifteen credit hours are required electives by advisement and 5 credit hours are free electives. Students may elect to concentrate in any of the following areas:

- Business
- Engineering
- Geography
- Fine Arts
- Political Science
- Urban Forestry
- Speech and Theatre

## Architecture Courses

(all architecture elective courses are not offered every academic year)

Course	No.	Cr.
Introduction to Computer Application	ARCH 121	2
Graphic Presentation I: (Physical Modeling Techniques)	ARCH 218	2
Theory of Architecture	ARCH 310	3
History of City Planning	ARCH 311	3
Computer Applications II	ARCH 320	3
Computer Applications III	ARCH 321	3
Architectural Programming	ARCH 329	3
Building Analysis	ARCH 330	3
Housing	ARCH 410	3
Human Behavior and Design	ARCH 411	3
Construction Studio III	ARCH 412	3
Construction Management	ARCH 413	3
Principles of City Planning	ARCH 414	3
Site Planning and Landscape Architecture	ARCH 418	3
Advanced Representation	ARCH 419	3
Building Economics and Design Cost Control	ARCH 426	3
Project Feasibility Analysis	ARCH 427	3
Interior Design	ARCH 428	3
Advanced Structures	ARCH 432	3
Construction Law	ARCH 442	3
Independent Study	ARCH 450	3
Building Law, Codes and Zoning	ARCH 461	3
Professional Licensing Examinations Seminar	ARCH 464	3

## Business Courses

Course	No.	Cr.
Principles of Economics I	ECON 200	3
Principles of Economics	ECON 205	3
Principles of economics II	ECON 210	3
Principles of Management	MGMT 300	3
Principles of Marketing	MKTG 300	3

## Engineering Courses

Course	No.	Cr.
Surveying	CIEN 201	3
Construction Materials Lab	CIEN 327	3
Introduction To Construction Engineering and Management	CIEN 478	3

**Fine Arts Courses**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Design	ARTS 110	2
Design	ARTS 111	2
Survey of World Art	ARTS 210	3
Print Making	ARTS 222	3
Sculpture	ARTS 310	3
Commercial Art	ARTS 320	3
Ceramics	ARTS 330	3
Oil Painting	ARTS 370	3
African American Art	ARTS 440	3
Drawing	ARTS 450	3

**Geography Courses**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Map and Geographic Media	GEOG 200	3
Economic Geography	GEOG 320	3
The Black Neighborhood	GEOG 437	3
Population Geography	GEOG 457	3

**Political Science Courses**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Public Administration	POLS 320	3
Urban Politics	POLS 404	3

**Sociology Courses**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Introduction To Population and Human Ecology	SOCL 324	3
Cultural Anthropology	SOCL 328	3
Community Organization	SOCL 386	3
The Urban Community	SOCL 428	3

**Urban Forestry Courses**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Urban Forestry	UFOR 151	3
Environmental Science	UFOR 271	3
Forest Science	UFOR 333	3
Plant Health Care	UFOR 371	3
Urban Forestry Ecology	UFOR 391	3
Landscape Design Studio	UFOR 432	3
Urban Forest Management	UFOR 455	3
Urban Recreation and Park Administration	UFOR 466	3
Urban Tree	UFOR 777	3

**Speech and Theatre Courses**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Techniques of Speech	SPTH 210	3
Business and Professional Communication	SPTH 310	3

## DEGREE REQUIREMENTS

Students enrolled in the School of Architecture who satisfy the University's general education requirements and who complete all requirements as listed in the curriculum, are awarded the degree of Bachelor of Architecture. There are 163 credit hours for the Bachelor of Architecture degree. The minimum quality standards which must be met for graduation are:

- A minimum overall 2.25 grade point average
- A minimum 2.5 GPA in all courses pursued in the School of Architecture
- A grade of "C" or better in all courses in the major area required to fulfill the credit hour requirement for the Bachelor of Architecture degree, and all other courses required for matriculation into the third year of the program
- Passing the University's writing proficiency test
- Satisfactory completion of a thesis
- Completion of the University general education requirements
- Completion of all course work and other academic requirements specified in the program of study.

## BACHELOR OF ARCHITECTURE

### First Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Studio I	ARCH 104	3	Studio II	ARCH 105	3
Representation I	ARCH 118	2	Introduction to Architecture	ARCH 111	2
Drawing I	ARTS 130	3	Representation II	ARCH 119	2
English Composition	ENG 110	3	English Composition	ENGL 111	3
Precalculus	MATH 135	3	Precalculus II	MATH 140	3
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
P.E./ Health Elective		2	General Education Elective		3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>17</b>

### Second Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Studio III	ARCH 204	5	Studio IV	ARCH 205	5
Representation III	ARCH 219	2	Intro to Const. Des. Studio	ARCH 213	2
Architectural History I	ARCH 210	3	Architectural History II	ARCH 211	3
Elements of Physics I	PHYS 141	4	Arts 222, 310, or 330		3
Intro to Construction	ARCH 212	3	Arch. Practicum	ARCH 266	1
			Matriculation Seminar	ARCH 297	1
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>15</b>

### Third Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Studio IV	ARCH 304	5	Studio VI	ARCH 305	5
Construction Des. Studio I	ARCH 312	2	Construction Des. Studio II	ARCH 313	2
Structures I	ARCH 316	3	Structures II	ARCH 317	3
Arch. Elective by advisement		3	Arch. Elective by advisement		2
General Education Elective (BIOL)		4	Elements of Physics I	PHYS 142	4
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

**Fourth Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Studio VII	ARCH 404	5	Studio VIII	ARCH 405	5
Structures III	ARCH 416	3	Research in Architecture	ARCH 430	3
Environ. Control Sys. I	ARCH 318	3	Environ. Control Sys. II	ARCH 319	3
Professional Practice I	ARCH 462	3	Professional Practice II	ARCH 463	3
General Education Electives		3	Elective by advisement		3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>17</b>

**Fifth Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Studio IX	ARCH 498	6	Thesis II	ARCH 497	6
Thesis I	ARCH 496	2	Building Systems Capstone	ARCH 433	2
General Education Elective		3	Elective by Advisement		3
Elective by advisement		2	General Education Elective		3
General Education Elective		3	<b>TOTAL</b>		<b>14</b>
<b>TOTAL</b>		<b>16</b>			



# School of Nursing

**Dean:** Janet Rami

**Chair of Undergraduate Program:** Jacqueline J. Hill

**Chair of Graduate Programs:** Sharon Hutchinson

**Professors:** Sandra Brown, Janet Rami, Enrica Singleton, Cheryl Taylor, Hazel White

**Associate Professors:** Cynthia Bienemy, Betty Fomby-White, Ola Fox, Jacqueline J. Hill,  
Sharon Hutchinson, Wanda Spurlock

**Assistant Professors:** Mary Abadie, Elaine Barham, Sharon Bator, Lewis Blair, Robert Buckley,  
Leah Cullins, Sandra Glenn, Latricia Greggs, Bertha Howard, Thais Lavalais,  
Gwen Livous, Tonda Martin, Dwone Marshall, Anyadie Onu, Marie Smith,  
Antoinella Upshaw, Sonja Washington, Janie Wells, Trudy Williams

**Skills Laboratory Coordinator:** Trudy Williams

**Director of Learning Resources:** Renee Millican

Southern University School of Nursing (SUSON) was granted initial approval by the Louisiana State Board of Nursing in 1985 and admitted the first baccalaureate level students to upper division courses in the fall of 1986. The School of Nursing currently offers three degrees: the bachelor of science in nursing (BSN), the master of science in nursing with a specialty in family health nursing (MSN) and role options as administrator, educator or family nurse practitioner, and the doctor of philosophy with a major in nursing (PhD). Additionally, a gerontology option is available with the concentration of gerontological nurse practitioner or gerontological clinical nurse specialist with role options as administrator or educator. The school houses two academic departments (graduate and undergraduate), the Office of Nursing Research, the Learning Resource Center, and the Family Health Care Centers. The school has four funded Endowed Professorships through the Baton Rouge Area Foundation, the Louisiana Board of Regents and three area health care agencies (Our Lady of the Lake, Woman's Hospital, and The Baton Rouge General).

The BSN and MSN programs are approved by the Louisiana State Board of Nursing, and are accredited by the National League for Nursing Accrediting Commission (NLNAC), and the Commission on Collegiate Nursing Education (CCNE). For more information the NLNAC and CCNE can be reached at:

**National League for Nursing Accrediting Commission**

**61 Broadway**

**New York, NY 10006**

**(212) 363-5555 ext. 153**

**Commission on Collegiate Nursing Education**

**One Dupont Circle Northwest suite 530**

**Washington, D.C. 20036-1120**

**(202) 887-6791**

## **BACHELOR OF SCIENCE IN NURSING (BSN)**

The baccalaureate program graduated its first class of 14 students in 1988 and by the end of Summer 2006, the school had over 984 BSN graduates. During 2004-05 over 1,200 students were enrolled at

Southern pursuing the baccalaureate degree in nursing. This undergraduate program is nationally recognized for its success with students from disadvantaged backgrounds. National licensure exam pass rates for SUSON graduates have been above the national average for ten of the last twelve years.

The Bachelor of Science in Nursing (BSN) program consists of lower division nursing courses and upper division courses. The program as outlined below satisfies general education (core curriculum) requirements at Southern University. Students who receive the BSN from Southern are eligible to write the National Council Licensure Examination for Registered Nurses (NCLEX-RN) for licensure as a registered nurse (RN).

The School of Nursing emphasizes self-care nursing concepts and the human care process in professional nursing. The school prepares its graduates to incorporate knowledge of nursing theory, physical sciences, behavioral sciences, and humanities in clinical nursing practice.

Graduates of the school provide professional nursing care in the role of learner, communicator, teacher, client, advocate, health care provider, counselor, change agent, and leader. They also collaborate with other health care professionals involved in the promotion of health and well being of individuals, families, groups, and communities. Nursing graduates are expected to practice in an ethical manner with accountability to self, the client, and the profession.

These graduates are also expected to evaluate research findings and their impact on nursing practice, apply leadership skills and knowledge of the socio-political system to effect change in health care delivery, and assume responsibility for continuing personal, professional, and educational development to meet the changing health needs of society.

## **ADMISSION REQUIREMENTS**

Application to upper division nursing may be made during the sophomore year. Transfer students that are in good standing at their previous university and school of nursing and that have comparable preparation are eligible to apply. Students are urged to seek advisement from the School of Nursing or the University College regarding specific courses acceptable as prerequisites.

Qualified applicants will be admitted without discrimination in regard to sex, race, ethnic identity, creed, age, or marital status. The number of applicants admitted to the upper division nursing major is dependent upon the availability of required resources. If there are more qualified applicants than can be accepted at the time of request, the admission pool will be made up of applicants who have met the criteria for admission, have given evidence of reasonable prospect of success in the nursing major, and who best represent the mission and goals of the University. The School of Nursing reserves the right to admit and retain only those students who demonstrate the cognitive, sensory, affective, and psychomotor skills necessary to perform safe acts of nursing care.

The curriculum plan describes the four-year, 130-hour program, which includes prerequisite nursing courses, University general education requirements, and upper division courses in the nursing major. Students should consult an advisor regarding prerequisite requirements for Human Anatomy and Physiology I, BIOL 238.

All students must meet the following criteria for admission to upper division nursing:

- Meet the requirements for general admission to Southern University-Baton Rouge.
- Completed the ACT or SAT and submit the scores to the University.
- Have a cumulative grade point average of at least 2.60 on all University course work completed.
- Have a minimum grade of "C" in all prerequisite nursing courses.
- Have successfully completed or received credit for all required courses listed for the first three semesters of the curriculum plan.
- Be accepted by the Admissions Committee and the dean of the School of Nursing.
- Prior to enrolling in any clinical nursing course, a completed health form must be submitted.
- Pass the writing proficiency examination required by the university.

## **PROGRESSION STANDARDS**

Progress in the nursing program will be reviewed at the beginning of each semester. Students must demonstrate competence in required nursing content and successfully complete all prerequisite courses. If a student fails to meet progression standards as listed in the School of Nursing Student Handbook, the student will not be allowed to progress within the nursing program.

Students in good standing in nursing and whose enrollment in nursing courses is interrupted for two or more consecutive semesters (Fall, Spring, Fall) shall reapply for admission, and acceptance will be based on admission requirements for the new catalog and available space. Acceptance of previous nursing courses is not automatic for these students.

## **SPECIAL REQUIREMENTS FOR NURSING MAJORS**

To enroll in a clinical nursing course, students must be approved by the Louisiana State Board of Nursing (LSBN). The Louisiana State Board of Nursing (LSBN) mandates the following:

- a. A signed Authorization to Disclose Criminal History Records Information form, a completed Application for Permission to Enroll in a Clinical Nursing Course form and the Applicant Processing-Disclosure Bureau of Criminal Identification form.
- b. Students who hold or have held licensure in any health care discipline and who have or have had:
  1. disciplinary action against such license,
  2. have a physical or mental impairment, and/or
  3. students who have or have had felony convictions shall petition the board for review and action regarding their right to practice as students of nursing in Louisiana prior to entry into the first clinical course.

Prior to acceptance into the nursing program, students are sent information about uniforms, health forms, orientation, testing, and other requirements of the program.

Students are responsible for their own transportation to and from the clinical agencies (hospital, clinics, etc.).

Expenses for the first semester in nursing are greater than subsequent semesters because of initial needs, such as uniforms.

## **DEGREE REQUIREMENTS**

To become eligible for the degree of Bachelor of Science in Nursing, students must satisfactorily complete a program of study that meets the requirements of the school and the University, which includes a 130-hour program and successfully passing the departmental comprehensive examination.

Graduates of the program are eligible to sit for the National Council Licensing Examination for Registered Nurses (NCLEX-RN), the licensing examination for nurses, which entitles successful candidates to use the title of Registered Nurse. Completion of the Bachelor of Science in Nursing program does not guarantee passing the NCLEX – RN.

## **Freshman Seminar**

Students are required to take freshman seminar or its equivalent during the first year of matriculation at Southern University to meet graduation requirements. In addition, transfer students must adhere to the following:

- Students who have earned 24 credit hours or less at another institution are required to take freshman seminar or its equivalent;
- Students who have earned more than 24 credit hours from another institution are not required to take freshman seminar as a requirement for graduation.

**BACHELOR OF SCIENCE IN NURSING****Freshman Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Pre-Calculus I	MATH 135	3	Intro to Logic	PHIL 210	3
History	HIST	3	History	HIST	3
General Chemistry Lec.	CHEM 128	3	General Chemistry Lec.	CHEM 129	3
General Chemistry Lab	CHEM 108	1	General Chemistry Lab	CHEM 109	1
Intro to Sociology	SOCL 210	3	Human Anatomy & Physiology I	BIOL 238	4
Orientation to Health and Nursing Careers	HLSC 120	2			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>17</b>

**Sophomore Year****(Level I)**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Principles/Microbiology	BIOL 230/231	4	Elementary Statistics	MATH 274	3
Human Anatomy & Physiology II	BIOL 239	4	Nursing Process II*	NURS 201	6
Human Nutrition	FCSC 332	3	Nursing Pharmacology	NURS 220	3
General Psychology	PSYC 210	3	Fine Arts 200; Music 200; Humanities 241 or 242		3
Nursing Process I	NURS 200	3	<b>TOTAL</b>		<b>15</b>
<b>TOTAL</b>		<b>17</b>			

**Junior Year (Level II)**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Computer Literacy	CMPS 105	3	Fund. of Nursing Research	NURS 305	3
Health Deviations I*	NURS 304	6	Family Development I*	NURS 310	6
Developmental Psyc	PSYC 445	3	Family Development II*	NURS 315	6
Literature Elective	ENGL	3			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Senior Year (Level III)**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Issues in Nursing	NURS 404	3	Community as Client**	NURS 417	6
Health Deviations II*	NURS 410	6	Nursing Leadership*	NURS 418	5
Health Deviations III*	NURS 415	5	Senior Seminar	NURS 420	2
Free Elective		3	Free Elective		3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>

\*Courses with clinical component

\*\* Course, which fulfills university requirement of 60 clock hours of community service.

# Nelson Mandela

## School of Public Policy and Urban Affairs

**Interim Dean:** Mylon Winn

The Nelson Mandela School of Public Policy and Urban Affairs houses undergraduate programs in Criminal Justice and Political Science, two excellent and reputable programs that prepare students for advancement in law school, law enforcement, graduate school and career paths in the public and private sector.

Other programs in the school include Doctor of Philosophy in Public Policy, Master of Public Administration, Master of Arts in the Social Sciences, and the Master of Criminal Justice program. The Master of Arts in the Social Sciences program offers concentrations in history, political science, and sociology. For information about the graduate programs, consult the Southern University Graduate School Catalog.

The political science program familiarizes students with the values associated with positive and effective leadership in a democratic society and develops a framework for continuous personal and professional growth. Students of the school gain the knowledge and skills that will enable them to pursue and excel in graduate education or professional careers.

### Freshman Seminar

Students are required to take freshman seminar or its equivalent during the first year of matriculation at Southern University to meet graduation requirements. In addition, transfer students must adhere to the following:

- Students who have earned 24 credit hours or less at another institution are required to take freshman seminar or its equivalent;
- Students who have earned more than 24 credit hours from another institution are not required to take freshman seminar as a requirement for graduation.

## Department of Criminal Justice

**Interim Chair:** Chanika Jones

**Professor:** Russell L. Dawkins

**Associate Professor:** Allison Anadi

**Assistant Professor:** Chaka Jones

**Instructors:** Doris Addison, Stephone K. Addison

**Adjuncts:** Alvin Baptise, Stefanie Krygowski, Robert Newman, Pamela Taylor-Johnson,  
Timica Gaines-Kinard, Tracie Froneberger

The Department of Criminal Justice prepares students for careers in the sub-agencies of the criminal justice system and for continued education in professional and graduate schools. National and international themes related to contemporary challenges to the police courts and corrections are among those studied and explored in theory and in practice through a diverse curriculum. The Department addresses

one of the University's primary goals in the development and infusion of electronic media into the course curriculum. Online courses support a student-centered environment that allows for e-teaching and e-learning experiences.

The Department offers a master of criminal justice degree, and a bachelor of science degree in criminal justice. The undergraduate program operates as a feeder to the interdisciplinary master of science in criminal justice with a concentration in criminal investigation, and supporting specializations in law enforcement, corrections and public policy. The doctor of philosophy is planned to complete the range of study and degree programs in criminal justice in the Nelson Mandela School of Public Policy and Urban affairs.

The Department offers membership to students in the criminal justice club, and in chapters of the National Association of Blacks in Criminal Justice, and Alpha Phi Sigma National Criminal Justice Honor Society.

## DEGREE REQUIREMENTS

### B.S. Degree in Criminal Justice

The Department of Criminal Justice strongly supports the General Education Program through involvement in an interdisciplinary educational opportunity. The Department anticipates tremendous growth beyond the State, towards national and international audiences. The focus on criminal prevention is inclusive of both the private and public sector and meant to inspire and promote critical examination through development of analytical skills, teaching of criminological thought and quantitative and qualitative inquiry to reduce risk, and criminal opportunity across global communities.

The criminal justice major must complete 128 semester hours of which 27 hours must be in the core courses and 18 hours in elective courses in criminal justice and criminology; 21 hours are "free electives." Students must also complete requirements for the community service experience, the African-American experience, the writing proficiency, and the departmental exit examination.

A minor in Criminal Justice is accomplished by completing a total of 21 hours: 18 hours of the core courses including CRJU 201, CRJU 202, CRJU 311, CRJU 345, CRJU 469, and CRJU 499, plus 3 hours of Internship (CRJU 300).

## BACHELOR OF SCIENCE IN CRIMINAL JUSTICE

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History of Civilization	HIST 114	3	History of Civilization	HIST 115	3
College Math	MATH 130	3	College Math	MATH 131	3
Principles of Health	HLTH 110	2	Computer Literacy	CMPS 105	3
General Biology	BIOL 104	4	Natural Science Elective		3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Social Science Elective	SOC 210	3	Social Science Elective		3
Literature Elective	ENGL	3	English Elective	ENGL 208	3
Foreign Language		3	Foreign Language		3
Natural Science Elective		3	Humanities Elective		3
Criminal Justice I	CRJU 201	3	Criminal Justice II	CRJU 202	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Crrections	CRJU 310	3	Analyzing Crime	CRJU 357	3
Applied Crim. Theory	CRJU 311	3	Crime Prevention	CRJU 457	3
Crim. Law & Procedures	CRJU 345	3	Elective	CRJU	3
Elective	CRJU	3	Elective	CRJU	3
Free Elective		3	Free Elective		3
Psychology Elective		3	Art/Music Elective		3
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Victimolog	CRJU 469	3	Senior Seminar	CRJU 499	3
Elective	CRJU	3	Elective	CRJU	3
Elective	CRJU	3	Free Elective		3
Free Elective		3	Free Elective		3
Free Elective		3	Free Elective		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>



## Department of Political Science

**Chair:** Kingsley E. Esedo

**Professors:** William Arp, Kingsley E. Esedo, Huey Perry, Leila Saredidine

**Associate Professors:** Revathi Hines, Lionel Lyles, Hassan Mahadallah, Albert Samuels

**Assistant Professors:** Christopher Cottrell, Blanche Smith

The Department of Political Science stimulates curiosity and develops technical proficiency in the areas of politics and government. The department recognizes that its graduates go primarily to graduate or law schools, to state, local or federal governmental agencies or into active politics. It prepares students for these varied career goals through its courses and a series of workshops, seminars, state and federal legislative internships, and work and study in other countries. The curriculum seeks to facilitate an understanding of the patterns of relationships which exist between the citizen and the polity.

### DEGREE REQUIREMENTS

The Bachelor of Arts in Political Science degree requires a total of 125 credit hours of which 39 semester hours are in political science and 27 semester hours of related social sciences (sociology and economics). Twenty-one of the semester hours in political science must be earned in courses at the 300 or 400 level. Six semester hours from each of the four related social science areas—economics, geography, history, and sociology—are required.

The curriculum includes the University's general education requirements, these include ten hours of course work in the biological and physical sciences with their appropriate laboratory components. The general education requirements stipulate that six hours of the natural sciences must be in a two-semester sequence. In addition, students must complete the University's requirements for community service and the African-American experience. Students must also pass the writing proficiency test and the departmental comprehensive examination.

A minor in political science consists of 18 semester hours including the following courses: American Government, POLS 200, Introduction to Political Science, POLS 220, and 12 semester hours of upper level political science courses.

The curriculum includes a series of four required non-credit seminars: POLS 215, 265, 315, and 365. These seminars meet two to three times each semester and consist of departmental information sessions, distinguished speaker series, and career preparation and graduate school information.

### BACHELOR OF ARTS IN POLITICAL SCIENCE

#### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
English Composition	ENGL 110	3	English Composition	ENGL 111	3
History Sequence	HIST	3	History Sequence	HIST	3
College Math I	MATH 130	3	College Math II	MATH 131	3
Natural Science Elective		4	Natural Science Elective		3
Health/PE Activity		2	Arts Elective		3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

**Sophomore Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Writing Seminar	POLS 206	3	Political Science Seminar	POLS 265	0
American Government	POLS 200	3	Internat'l Relations	POLS 202	3
Literature Elective	ENGL	3	Cultural Geography	GEOG 210	3
Foreign Language		3	Foreign Language		3
Natural Science Elective		3	Intro to Poli. Science	POLS 220	3
Poli. Science Seminar	POLS 215	0	Micro-Computer Applications	CMPS 290	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**Junior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intro to Comparative Gov't.	POLS 232	3	Political Science Elective	POLS	3
Intro to Sociology	SOCL 210	3	Sociology Elective	SOCL	3
Principles of Economics I	ECON 200	3	Principles of Economics II	ECON 210	3
Elementary Statistics	MATH 274	3	Constitutional Law	POLS 351	3
General Psychology	PSYC 210	3	Political Theory	POLS 480	3
Foreign Language		3	Political Science Seminar	POLS 365	0
Political Science Seminar	POLS 315	0			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>15</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Advance Sem. in Poli. Science	POLS 483	3	Political Science Elective	POLS	9
Quantitative Techs. in Poli. Sci.	POLS 484	3	Free Elective		6
Geography Elective	GEOG	3	Departmental Comprehensive		0
Humanities Elective		3			
Free Elective		3			
Writing Proficiency					
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

# Reserve Officer Training Corps (ROTC) Programs

The ROTC programs in Aerospace Studies (Air Force ROTC), Military Science (Army ROTC), and Naval Science (Naval ROTC) at Southern University are elective. These programs are designed to provide young men and women opportunities to become commissioned officers in the United States Air Force, Army, Navy, and Marine Corps while earning an academic degree. The purpose of these programs is to develop men and women who can apply their education to initial active duty assignments as commissioned officers in the United States Armed Forces. These programs prepare qualified students to assume positions of increasing responsibility and importance in the military profession. In order to receive a commission, ROTC cadets and midshipmen must complete all requirements for a degree according to University rules and regulations and must complete certain courses specified by the respective ROTC program.

Army and Naval ROTC programs are hosted by Southern University. The Naval ROTC program is available to LSU, Southeastern Louisiana University, and BRCC students through a cross-enrollment agreement between Southern University and their respective institutions. Southern students may participate in the Air Force ROTC program housed at Louisiana State University through a cross-enrollment agreement between Southern and LSU.

Additional details may be obtained by writing:

Army ROTC  
Professor of Military Science  
Army ROTC Building  
Southern University  
P. O. Box 9334  
Baton Rouge, LA 70813  
[www.subr.edu/rotc](http://www.subr.edu/rotc)

Naval ROTC  
Professor of Naval Science  
Navy ROTC Building  
Southern University  
P.O. Box 9214  
Baton Rouge, LA 70813  
[www.subr.edu/nrotc](http://www.subr.edu/nrotc)  
[sunrotc@subr.edu](mailto:sunrotc@subr.edu)

Air Force ROTC  
Professor of Aerospace Studies  
105 Military Science-Aerospace  
Studies Building  
Louisiana State University  
Baton Rouge, LA 70803-0100

## AEROSPACE STUDIES

The Air Force ROTC program provides pre-professional preparation for future Air Force officers. Through a cross-registration program between Southern University and Louisiana State University, Southern students are eligible to enroll in the Air Force Reserve Officer Training Corps (AFROTC). Courses are conducted at Louisiana State University and course work credited at Southern University. Consult the LSU General Catalog for course listings and descriptions. Call (225) 578-4407 or visit [www.afrotc.lsu.edu](http://www.afrotc.lsu.edu) on the world wide web for more information.

AFROTC offers a four-year and a two-year program leading to an Air Force officer's commission. When a cadet graduates from Southern University and has completed Air Force ROTC course work and requirements, the cadet will be commissioned as a second lieutenant in the United States Air Force. Students incur no obligation while participating during the freshman and sophomore years, unless on an Air Force scholarship. AFROTC scholarships are available to students who demonstrate exceptional academic performance and aptitude for commissioned service. The AFROTC scholarships cover tuition and fees, pays \$250 to \$400 per month stipend during the fall and spring semesters, and provides \$600 per year to purchase books.

## **PROGRAM OF STUDY**

The General Military Course (GMC) taken during the freshman and sophomore years, focuses on three main themes—the military officer's role, the development of aerospace power, and the organization of today's Air Force. Enrollees will study the missions, doctrines, and strategies of aerospace power from balloons to contemporary use of space vehicles. GMC cadets are required to attend the Leadership Laboratory, where they are introduced to principles in applied leadership in drill and ceremonies, military protocol, and physical fitness.

The Professional Officer Course (POC) is available primarily to junior college transfer students, military veterans, and highly qualified sophomore students. Students in this program are expected to have at least four semesters remaining in school—which may be undergraduate, graduate, or a combination of the two. This program is highly competitive, so it is important to apply early during the sophomore year.

Professional Officer Course students start their program with an in-depth look at the theories of management and their application. In Aerospace Studies (ASST 3001 and ASST 3002) courses, cadets will examine the general concepts of leadership and relate the concepts to real Air Force situations. They will participate through group discussions, case studies, and individual and group problem solving. ASST 3001, ASST 3002, ASST 4001, and ASST 4002 classes normally meet three hours per week. In ASST 4001 and ASST 4002 classes, cadets will analyze the role of the Armed Forces in contemporary American society. Also, they will examine a broad range of American domestic and international military relationships and the environmental context in which American national security policy is formulated and implemented. Successful completion of the POC leads to a commission as an Air Force Officer.

Leadership Laboratory, a cadet-planned and directed activity, provides leadership training experiences to improve a cadet's ability to perform as an Air Force officer. The freshman and sophomore Leadership Laboratory introduces Air Force customs and courtesies, drill and ceremonies, wearing the uniform, career opportunities in the Air Force, education and training benefits, and the life and work of an Air Force officer; and includes opportunities for field trips to Air Force installations. Initial experiences include preparing the cadet for individual flight, squadron movements in drill and ceremonies, and for the Field Training assignment prior to the junior year.

The junior and senior Leadership Laboratory involves cadets in advanced leadership experiences to prepare for active duty. Cadet responsibilities include planning, organizing, directing, coordinating, and controlling the activities of the cadet group; preparing briefings and written communications; and providing interviews, guidance, information, and other services which will increase the performance and motivation of all cadets.

## **FIELD TRAINING**

Field Training is hosted each summer by several active Air Force installations. It is designed to stimulate the development of military leadership among students through aircraft, aircrew, career, and survival orientation; junior officer training, physical training, small arms training, supplemental training and human relations education; and equal opportunity training. Students will receive pay and allowances authorized by current Air Force directives while in Field Training.

## **ADVANCED TRAINING**

Selected cadets may have the opportunity to go to active duty Air Force bases for a two-week or three-week period during the summers following the freshman and junior years. Advanced training cadets will receive specialized career orientation and an opportunity to experience leadership, human relations, and management challenges encountered by Air Force junior officers. Also, they will become familiar with the Air Force "way of life." Cadets receive pay and allowances authorized by current Air Force directives at the time of Advanced Training attendance.

## ADMISSIONS REQUIREMENTS

In order to qualify for entry into the General Military Course, the student must be full-time at Southern University; a United States citizen (for contract status); in good physical condition, and have good moral character. Students are required to complete all commissioning requirements prior to age 30 (may be waived for prior service up to age 35 providing the individual can be brought on active duty prior to reaching age 35, if a non-flying officer candidate). They must be at least 14 years old to be admitted and at least 17 years old to receive a scholarship appointment.

Qualifications for entry into the Professional Officer Course are more stringent. In addition to the requirements of the General Military Course, the cadet must: have two academic years remaining (undergraduate, or a combination), must qualify on the Air Force Physical Examination and the Air Force Officer Qualifying Test (AFOQT), must be selected by a board of Air Force officers, and must successfully complete field training.

## ENROLLMENT PROCEDURES

There is no application procedure for the four-year program. Students should register for AFROTC in the same manner and at the same time they cross-register for other college courses under the Southern-LSU cooperative degree program. For more information concerning the Air Force ROTC program, call the Department of Aerospace Studies at (225) 578-4407. The department is located in 105 Military Science-Aerospace Studies Building, South Stadium Drive, Louisiana State University. Or write to Air Force ROTC, Detachment 310, Baton Rouge, LA 70803-0100.

## AEROSPACE STUDIES

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Foundation of the USAF	ASST 1001	1	Foundation of the USAF	ASST 1002	1
Leadership Laboratory	ASST 1011	1	Leadership Laboratory	ASST 1012	1
<b>TOTAL</b>		<b>2</b>	<b>TOTAL</b>		<b>2</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Evolution of USAF			Evolution of USAF		
Aerospace Power	ASST 2001	1	Aerospace Power	ASST 2002	1
Leadership Laboratory	ASST 2011	1	Leadership Laboratory	ASST 2012	1
<b>TOTAL</b>		<b>2</b>	<b>TOTAL</b>		<b>2</b>

### Junior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Air Force Studies			Air Force Studies		
& Leadership	ASST 3001	3	& Leadership	ASST 3002	3
Leadership Laboratory	ASST 3011	1	Leadership Laboratory	ASST 3012	1
<b>TOTAL</b>		<b>4</b>	<b>TOTAL</b>		<b>4</b>

**Senior Year**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
National Security Affairs	ASST 4001	3	National Security Affairs	ASST 4002	3
Leadership Laboratory	ASST 4011	1	Leadership Laboratory	ASST 4012	1
<b>TOTAL</b>		<b>4</b>	<b>TOTAL</b>		<b>4</b>

\*Student must have satisfactorily completed ASST 2002, completed Field Training, or have permission of the Professor of Aerospace Studies to enroll.

## Army Military Science

The Army Reserve Officers Training Corps (AROTC) is organized under the authority of the National Defense Act of June 3, 1916, as amended. The detachment at Southern University was activated by General Order Number 122, Headquarters Fourth Army, July 1, 1948.

The AROTC program of instruction consists of courses for a recognized degree field, institutional courses of particular interest and value to the military services and military science courses. This program of instruction is designed to complement the civilian goal of acquiring a baccalaureate degree in a course of study by enabling the individual to develop those attitudes and understandings that will facilitate transition to military service. AROTC offers a four-year, a three-year, and a two-year program to qualified students.

### FOUR-YEAR PROGRAM

The four-year program consists of two programs of instruction: basic and advanced courses.

The basic course (freshmen and sophomores) normally extends over the first two academic years and the advanced course (juniors and seniors) extends over the last two years.

During the summer following the junior year, the student will normally attend the Leadership Development Assessment course at Fort Lewis, Washington.

### TWO-YEAR PROGRAM

The University participates in the two-year ROTC program. This program extends the advantages of ROTC to junior college students and to students in four-year colleges who have not participated in the basic ROTC course. The two-year program also is available to graduate students, veterans, and students in the Uniformed Services Simultaneous Membership Program. University students in one of the preceding categories must satisfactorily complete an Army physical examination before enrollment. Freshmen and sophomore students desiring to pursue the two-year program should contact the Department of Military Science before the second semester of the sophomore year, or in the case of graduate students, prior to May of the calendar year they plan to start graduate school.

Students who enroll in the two-year program are required to attend the Leadership Training Course (LTC) at Fort Knox, Kentucky if they have not attended any prior military training such as a basic training camp. Students successfully completing the LTC may enroll in the ROTC Advanced Course under the same provisions and with the same benefits as a four-year advanced course student. Students participating in the basic summer training program will be paid monthly at the rate of Sergeant/E-5. Students must have successfully completed 60 semester hours of credits to be eligible for this program.

### VETERANS PROGRAM

Veterans in most cases may qualify for the advanced course by receiving credit for the basic course. Credit for the basic course is based upon the satisfactory completion of basic training or the number of years served on active duty. Subsistence payment up to \$500 per month (up to 10 months per year) from ROTC is paid in the advanced course.

## **SIMULTANEOUS MEMBERSHIP PROGRAM (SMP)**

The Simultaneous Membership Program permits a student to be a member of the Reserve or National Guard and enroll in Army ROTC at the same time. The student becomes an officer trainee in the Reserve or National Guard unit and enrolls in the ROTC Advanced Course. While participating in the Simultaneous Membership Program students will be paid at the grade of E-5 monthly by the National Guard or Army Reserve and receive a stipend up to \$500 monthly by Army ROTC.

After completion of the ROTC program the student will be commissioned a second Lt. in the Active Army, National Guard, or Army Reserve.

## **SCHOLARSHIPS**

The ROTC Vitalization Act of 1974 provides for financial assistance in the form of ROTC Scholarships for qualified students.

Army ROTC offers two-, three-, and four-year scholarships which pay tuition, educational fees, and the cost of books in the amount of \$600 per semester. Additionally, a scholarship recipient is given up to \$500 a month subsistence allowance for up to 10 months a year. It should be noted that scholarship students cannot participate in the SMP listed above.

## **CHANCELLOR'S HONOR AWARDS FOR ROTC SCHOLARS**

Students on Army ROTC scholarships are eligible for room and board exemptions (on-campus charges only and with certain limitations and availability of funds) if they maintain at least a 2.5 current GPA, achieve a minimum of 3.0 in their ROTC classes, and maintain Army physical fitness and height/weight standards.

## **COMMISSIONS**

After successful completion of AROTC advanced course requirements and university curriculum requirements, a cadet is commissioned as a Second Lieutenant in the U.S. Army following graduation.

## **ARMY ROTC ADVANCED COURSES**

Advanced Courses (MILS 300 and MILS 400 enrollment series) requires permission from the Professor of Military Science.

Enrollment in the Advanced Program is limited to qualified students. They must meet following completion of their undergraduate studies. Students must be enrolled full-time at Southern University, be a U.S. citizen, be of good moral character, and be of legal age to participate in ROTC. For further details on specific prerequisites, consult the Scholarship and Enrollment Officer or the Professor of Military Science.

## **Allowances**

Advance course students receive up to \$500 per month subsistence allowance. Students receive pay at the rate prescribed by law for cadets at the U. S. Military Academy and travel cost to and from the Leadership Development Assessment Course (LDAC) location. All students are issued uniforms with the exception of SMP members.

## **Extra-Curricular Activities**

Leadership and Confidence Development Activities sponsored by the Military Science Department include:

- Orienteering map and terrain navigation training
- Color/Honor Guard
- Chancellor's Honor Awards for ROTC Scholars
- Ranger Challenge Team
- Campus and community service

## ROTC Leadership Development and Leadership Training Courses

The primary objective of the ROTC LDAC is to supplement on-campus instruction by providing practical experience and training in problem analysis, decision making, and troop leading experience. The objective of LTC is to qualify on-campus students who have not had the opportunity to take ROTC for the Basic Course.

### MILITARY SCIENCE

#### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Foundation of Leadership & Management	MILS 100	1	Military Science & Leadership Leadership Lab	MILS 101 MILS 111	1 1
Leadership Lab	MILS 110	1			
<b>TOTAL</b>		<b>2</b>	<b>TOTAL</b>		<b>2</b>

#### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Applied Leadership & Management	MILS 200	1	Military Science & Leadership Leadership Lab	MILS 201 MILS 211	1 1
Leadership Lab	MILS 210	1			
<b>TOTAL</b>		<b>2</b>	<b>TOTAL</b>		<b>2</b>

#### Junior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Advanced Leadership & Management	MILS 300	2	Advanced Leadership & Management	MILS 301	2
Leadership Lab	MILS 310	1	Leadership Lab	MILS 311	1
<b>TOTAL</b>		<b>3</b>	<b>TOTAL</b>		<b>3</b>

#### Senior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Theory and Dynamics	MILS 400	2	Sr. Sem. in Leadership & Management	MILS 401	2
Leadership Lab	MILS 410	1	Leadership Lab	MILS 411	1
<b>TOTAL</b>		<b>3</b>	<b>TOTAL</b>		<b>3</b>

Additional Requirements: Cadets must complete American Military History, HIST 306 or HIST 114 and 115 for professional military education requirements.

### ARMY ROTC COURSE SUBSTITUTIONS

ARMY ROTC courses are approved for substitution for the following University College Requirements:

- Military Science for Physical Education courses, (Education majors cannot use this substitution).
- American Military History, HIST 306, for a Humanities elective. (College of Science majors cannot use this substitution).
- Students enrolled in AROTC can use AROTC courses to substitute for free elective in their respective curriculum.

- Nursing students can receive 3 hours toward their degree for successful completion of the Nurse Summer Training Program (NSTP).
- History of Civilization, HIST 114 AND HIST 115 for American Military History, HIST 306

## Naval Science

The Naval Reserve Officer Training Corps Program (Naval ROTC) was established at Southern University in 1971 to provide an opportunity for students to qualify for commissions in the United States Navy or the United States Marine Corps. Over the years, the program has been extended to students from Louisiana State University, Southeastern Louisiana University, and Baton Rouge Community College.

To qualify for a commission, a midshipman must: complete all requirements for a bachelor's degree in accordance with University rules and regulations; must complete the NROTC Program course curriculum; receive a favorable recommendation from the Professor of Naval Science.

For more information on the Naval ROTC program, contact the Department of Naval Science at Southern University at (225) 771-4370/1 or toll-free (888) 786-7682.

### GENERAL REQUIREMENTS FOR THE NROTC PROGRAM

To participate in the NROTC program, a student must:

- Be a United States citizen
- Be physically qualified by Navy or Marine Corps standards
- Be at least 17 years old by September 1 of the year starting college and no more than 23 on June 30 of that year.
- Possess a high school graduation or equivalency certificate by August 1 of the year of entrance
- Have no moral obligations or personal convictions that prevent conscientious bearing of arms and supporting and defending the Constitution of the United States against all enemies, foreign or domestic.

Naval ROTC students must possess a satisfactory record of moral integrity and scholarship, participate in extracurricular activities, and have potential officer characteristics. Students must be accepted for admission as a student at Southern University or one of the cross-enrolled schools.

Naval ROTC students are expected to progress and graduate in the minimum time possible consistent with their abilities and the constraints of program structures and course offerings.

### THE NAVAL ROTC SCHOLARSHIP PROGRAM

Naval ROTC Scholarship recipients receive full tuition and associated university fees, a yearly book stipend (\$375 per semester), free uniforms and textbooks for Naval ROTC classes, and a monthly subsistence allowance for each month of the academic school year (Freshman: \$250; Sophomore: \$300; Junior: \$350; Senior: \$400).

There are several types of scholarships available to students depending on their academic year and which university they attend.

- **Naval ROTC Four-Year Scholarship:** High school seniors may apply for this highly competitive scholarship opportunity prior to December 31st of the year they plan on graduating from high school. Online applications and program details are available at <https://www.nrotc.navy.mil>.
- **Two-Year Naval ROTC Scholarship:** Sophomores attending one of the schools affiliated with Southern University's Naval ROTC program are eligible to apply for this nationally competitive scholarship. Selectees attend the Naval Science Institute in Newport, Rhode Island during the summer after their sophomore year to complete freshman and sophomore Naval Science classes missed. The scholarship covers the final two years of college tuition, fees, and a stipend for the junior and senior years. Applications must be submitted prior to March 1st of the sophomore year.
- **Historically Black College and University (HBCU) Scholarship Program:** The HBCU Scholarship

was established to increase the diversity of Naval Officers by attracting students with academic potential who are either attending or plan to attend Southern University. Students accepting this scholarship must enroll at Southern University, and the scholarship is non-transferable to other schools. Applications must be submitted prior to beginning the sophomore year at Southern.

- **Nurse Corps Scholarship:** These scholarships are available for students pursuing a degree in nursing at Southern University or Southeastern University. They are available through the Four-year scholarship program, HBCU program, or the Two-year NROTC scholarship.
- **Tweedale Scholarship:** This scholarship is awarded to academically qualified University freshmen and sophomores who desire a commission in the Navy's Nuclear Propulsion Field. Applicants must be majoring in a technical field, have a 3.0 or greater college grade point average, and conduct a personal interview with the Professor of Naval Science.

### **CHANCELLOR'S HONOR AWARD FOR NAVAL ROTC SCHOLARS**

Students who receive a Naval ROTC scholarship and are enrolled at Southern University are eligible to receive a room and dining plan exemption (on-campus charges only and with certain limitations), provided all Naval ROTC and academic eligibility requirements are maintained.

### **NAVAL ROTC COLLEGE PROGRAM**

The Naval ROTC College Program allows motivated students who have not received one of the above listed scholarships to try to guarantee themselves a commission in the Navy or Marine Corps. The purpose of this program is to allow midshipmen with strong leadership abilities and aptitudes the chance to achieve their goal of being a Naval Officer. Students may join the program anytime prior to the end of their sophomore year in college.

During the summer between the student's sophomore and junior year, a nationally competitive college program board will evaluate the student's academic grades, physical test score, and leadership aptitude to determine suitability for a commission in the Navy. If the student performs well, he or she will be selected for "Advanced Standing" which guarantees:

- A commission in the Navy upon graduation
- A monthly stipend for the remaining two years of college
- Participation in a summer training evolution during the summer between the student's junior and senior year.

### **COMMENSURATE PROGRAMS**

Naval Science Department courses are approved for substitution for the following University General Education Requirements:

- Naval Science Lab for physical education courses
- Naval Science courses for free electives or non-technical electives in their degree programs
- Naval Science Lab for Freshman Studies (provided student completes the program and receives a commission)

It is important that students participating in the Naval ROTC program communicate with University advisors and department curriculum coordinators to ensure compliance with academic program requirements.

### **SUMMER TRAINING**

Summer training periods are held annually to furnish Naval ROTC midshipmen the opportunity to gain experience in the practical application of their studies in Naval Science. Scholarship students and midshipmen who have been given advanced standing status are required to participate. These training

periods are normally four to eight weeks in length with travel to various locations around the world. Students are paid approximately \$600 during their training sessions and the Department of the Navy pays for cost associated with travel, food, and lodging.

## NAVAL SCIENCE

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Naval Lab	NAVS 100	1	Seapower & Maritime Aff.	NAVS 102	3
Intro to Naval Science	NAVS 101	3	Naval Lab	NAVS 103	1
<b>TOTAL</b>		<b>4</b>	<b>TOTAL</b>		<b>4</b>

### Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Naval Lab	NAVS 200	1	Naval Ship Sys. I	NAVS 202	3
Leadership & Mgt. I	NAVS 201	3	Naval Lab	NAVS 203	1
<b>TOTAL</b>		<b>4</b>	<b>TOTAL</b>		<b>4</b>

### Junior Year (Navy)

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Naval Lab	NAVS 300	1	Naval Ops. & Seamanship	NAVS 302	3
Navigation	NAVS 301	3	Naval Lab	NAVS 303	1
<b>TOTAL</b>		<b>4</b>	<b>TOTAL</b>		<b>4</b>

### Junior Year (Marine Corps)

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Evolution of Warfare	NAVS 310	3	Marine Option Lab	NAVS 313	1
Marine Option Lab	NAVS 311	1			
<b>TOTAL</b>		<b>4</b>	<b>TOTAL</b>		<b>1</b>

### Senior Year (Navy)

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Naval Lab	NAVS 400	1	Leadership & Ethics	NAVS 402	3
Naval Ship Sys. II (Weeps)	NAVS 401	3	Naval Lab	NAVS 403	1
<b>TOTAL</b>		<b>4</b>	<b>TOTAL</b>		<b>4</b>

### Senior Year (Marine Corps)

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Amphibious Warfare	NAVS 410	3	Marine Option Lab	NAVS 413	1
Marine Option Lab	NAVS 411	1	Leadership & Ethics	NAVS 402	3
<b>TOTAL</b>		<b>4</b>	<b>TOTAL</b>		<b>4</b>

Note: Midshipmen majoring in Nursing are required only to enroll in the following Naval Science Courses: NAVS 100, NAVS 101, NAVS 102, NAVS 103; NAVS 200, NAVS 201, NAVS 203; NAVS 300, NAVS 303; NAVS 400, NAVS 402, NAVS 403.

# The Graduate School

**Dean:** Damien D. Ejigiri

Graduate studies at Southern University offer qualified students the opportunity to gain advanced knowledge in their chosen fields of study and succeed in meeting career goals. This is accomplished through a dedicated graduate faculty--a committed group that includes Fulbright Scholars, distinguished researchers, and mentors.

Opportunities exist in a number of academic disciplines, including doctoral degree programs in public policy, science/mathematics education, special education, environmental toxicology, nursing, and urban forestry.

Numerous research centers, computer and learning laboratories, facilities for distance learning and multimedia instruction, and a library with more than one million volumes are among the wide range of resources. Graduate fellowships and assistantships are available to qualified students.

**The Graduate School offers the following degrees:**

**Field of Study:**

## **DOCTOR OF PHILOSOPHY**

Environmental Toxicology  
Nursing  
Public Policy  
Science/Mathematics Education  
Special Education  
Urban Forestry

## **MASTER OF ARTS**

Counselor Education  
Mass Communications  
Mental Health Counseling  
Social Sciences  
Concentrations offered in: History  
Political Science  
Sociology

## **MASTER OF BUSINESS ADMINISTRATION**

## **MASTER OF EDUCATION**

Curriculum and Instruction  
Educational Leadership  
Elementary Education  
Secondary Education

## **MASTER OF ENGINEERING**

Concentrations offered in: Environmental  
Electronic Materials and Processing  
Telecommunications and Computer Network Materials Science  
Thermal Science

**Field of Study:****MASTER OF SCIENCE IN NURSING**

Family Nurse  
Gerontology

**MASTER OF PUBLIC ADMINISTRATION****MASTER OF SCIENCE**

Biology  
Traditional Chemistry  
Environmental Chemistry  
Computer Science  
Criminal Justice  
Mathematics  
Physics  
Rehabilitation Counseling  
Speech-Language Pathology  
Therapeutic Recreation  
Urban Forestry

**POST MASTERS CERTIFICATION**

Family Nurse Practitioner  
Nursing-Gerontology

**ADMISSIONS**

Applications for admission to the Graduate School may be obtained from and submitted to the Dean of the Graduate School, Post Office Box 9860, Southern University, Baton Rouge, LA 70813. All credentials must be received by April 15 for fall semester admission, November 1 for spring semester admission, and March 30 for summer admission. Applications and credentials received after the deadline dates are subject to a late application fee (\$10.00).

The application package consists of the following:

1. Application for admission form.
2. Statement of purpose.
3. Official transcripts (sent from the Registrar's Office of each college or university attended.)
4. Official GRE Test Scores (GMAT, if applicable).
5. Three typed letters of recommendation on letterhead.
6. Application for Louisiana Resident Designation (for Louisiana resident status eligibility).
7. Supplementary Residency Information Sheet (Employer Verification Form-for Louisiana resident status eligibility).
8. Application for Exemption from Non-Resident Fees (applicable only if you are awarded a graduate assistantship or fellowship).
9. Official TOEFL Scores (if you are an international student).
10. An affidavit or financial support (U.S. Department of Justice Form 1-134, if you are an international student).
11. A \$25.00 nonrefundable application fee.

Additional credentials, certification, etc., may be required if you are applying for admission to the curriculum and instruction program (including elementary and secondary education) or the special education program. Please contact the respective department for a list of additional credentials.

All credentials are forwarded to the department indicated on the admission application for review and admission decision. If admitted, a letter of acceptance will be sent to the student indicating the admission status. The student should then contact the chairperson of the department to select an advisor and become familiar with all criteria and requirements of the program. A plan of study is developed with the advisor and the signed document is submitted to the Office of Graduate Studies.

## ADMISSION GUIDELINES

Graduate program applicants must meet the minimum standards set forth by the Graduate School, and where applicable, more stringent standards set by each department for admission to a degree program.

### REGULAR ADMISSION TO DEGREE PROGRAMS

To be eligible for regular admission for a master's program, an applicant must:

- hold a baccalaureate degree granted by a regionally accredited institution (a recognized university, if you are an international student)
- have earned a cumulative grade point average of at least 2.7 on all undergraduate work pursued and at least 3.0 on all graduate work completed. (Please note that if your GPA is less than 2.7 but at least 2.5, you may still be considered for conditional admission)
- submit acceptable scores made on the General Test of the Graduate Record Examination (GMAT, if applicable)
- be recommended for admission by the appropriate department.

Applicants must meet the individual departmental admission requirements which are listed separately by each program.

To be eligible for regular admission for a doctoral program, an applicant must:

- hold a baccalaureate degree granted by a regionally accredited institution (a recognized university, if you are an international student);
- hold a master's degree (unless you are applying to a program that accepts students without a master's degree);
- have earned a cumulative grade point average of at least a 3.0 on all undergraduate work pursued and at least a 3.0 GPA on all graduate work completed.
- submit acceptable scores made on the General Test of the Graduate Record Examination; and
- be recommended for admission by the appropriate department.

For information on conditional and provisional admission, consult the Southern University Graduate School Bulletin.

### ADMISSION OF TRANSFER STUDENTS

Students who have attended another regionally accredited graduate school, should be eligible for readmission at the college or university from which they transfer in order to be admitted to the Graduate School. Students applying to transfer from other graduate schools should have their institutions submit transcripts and evidence of eligibility for readmission as part of their application to the Southern University Graduate School Office. Failure to provide the above credentials will delay the admission process.

### TRANSFER CREDIT

Students pursuing their graduate work at Southern University may transfer, from a regionally accredited graduate school, the following:

- A maximum of 12 semester credit hours (whose age will not exceed seven years at the time of graduation) for master's programs.
- A maximum of 6 semester credit hours (whose age will not exceed five years at the time of graduation) for doctoral programs. For doctoral students an additional 27 semester hours (regardless of age) may be transferred to meet the requirements for completing a master's degree.

Students must have an earned grade of "B" on all transfer courses. Transfer courses may be applied toward a degree when they can be reconciled with the requirements of the student's degree program. The final decision on transfer credits will be made by the Dean of the Graduate School upon the recommendation of the student's advisor and chair of the department.

## ADMISSIONS FOR INTERNATIONAL STUDENTS OUTSIDE US

1. International students outside the United States who apply for admission to the Graduate School at Southern University must submit all supporting documentation as part of the admission package. If one or more items are missing, all documentation will be returned to the applicant without any admission actions.
2. Applicant's admission packet must consist of the following items:
  - a. Application, Statement of Purpose, 3 Letters of Recommendation, Document-by-document evaluation from an approval agency.
  - b. Official GRE Scores and TOEFL Scores (**525 paper-based/193 computer-based**); 70 Internet based.
  - c. Affidavit of Financial Support (U.S. Department of Justice Form I-134).
  - d. Twenty-five dollar (\$25) Money Order made payable to Southern University (**US dollars only**).

**NOTE:** We can accept credentials from applicants from the following countries who do not have TOEFL and GRE Scores. [Iran (GRE Scores); Nigeria (TOEFL)]

3. Once a complete package with all the listed documents is received, an admission packet will be submitted to applicant's department for evaluation.
4. Evaluation from the applicant's department will be reviewed by Graduate School. If admission status is correct, a request will be sent to the International Students Office for issuance of a Southern University I-20.
5. Upon the issuance of an I-20 form, an official letter of admission will be sent by the Director of Graduate Admissions to the student



## ADMISSIONS FOR INTERNATIONAL STUDENTS WITHIN THE US

### I. International Students with F-1 Visas Transferring from Another Institution

- A. Applicant's admission packet must consist of the following items:
1. Application, Statement of Purpose, 3 Letters of Recommendation, Official Transcripts (all colleges/universities attended).
  2. Official GRE Scores and TOEFL Scores (**525 paper-based/193 computer-based**); 70 Internet based.
- Exception:** If applicant completed undergraduate work at a US institution, TOEFL Scores are not required.
3. Affidavit of Financial Support (U.S. Department of Justice Form I-134).
  4. Valid Passport, VISA and I-94 (Arrival and Departure document).
  5. Copy of I-20 that was issued from previous institution.
  6. Twenty-five Dollar (\$25) Money Order payable to Southern University (**US dollars only**).
- B. Once a complete package with all the documents is received, an admission's packet will be submitted to applicant's department for evaluation.
- C. If GRE Scores are missing, admission's packet can still be sent to applicant's intended department. Applicant can receive Provisional/Conditional status as long as he/she does not have a Graduate Assistantship.
- D. If an applicant needs an I-20, he/she **must** be granted **Regular admission only**.
- E. Evaluation from the applicant's department will be reviewed by Graduate School. If admission status is correct, a request will be sent to the International Students Office for issuance of a Southern University I-20.
- F. Once a Southern University I-20 has been issued, an official letter of admission will be sent by the Director of Graduate Admissions to the student.

### INTERNATIONAL STUDENTS WITH OTHER TYPES OF VISAS SEEKING AN F-1

- A. Applicant's admission packet must consist of the following items:
1. Application, Statement of Purpose, 3 Letters of Recommendation, Course-by-course evaluation from an approval agency
  2. Official GRE Scores and TOEFL Scores (**525 paper-based/193 computer-based**); 70 Internet based.
- Exception:** If applicant completed undergraduate work at a US institution, TOEFL Scores are not required.
3. Affidavit of Financial Support (U.S. Department of Justice Form I- 134).
  4. Valid Passport, VISA and I-94 (Arrival and Departure document).
  5. Twenty-five Dollar (\$25) Money Order payable to Southern University (**US dollars only**).
- B. Once a complete package with all documents is received, an admission's packet will be submitted to applicant's department for evaluation.
- C. If GRE Scores are missing, admission's packet can still be sent to applicant's intended department. Applicant can receive Provisional/Conditional status as long as he/she does not have a Graduate Assistantship.
- D. If an applicant needs an I-20, he/she **must** be granted **Regular admission only**.
- E. Evaluation from the applicant's department will be reviewed by Graduate School. If admission status is correct, a request will be sent to the International Students Office for issuance of a Southern University I-20.
- F. Once a Southern University I-20 has been issued, an official letter of admission will be sent by the Director of Graduate Admissions to the student.

## PRIVILEGED SENIORS

Graduating seniors at Southern University who have “B” averages on all work pursued and who lack no more than seven semester hours (four in the summer session) for the completion of the baccalaureate degree may enroll in graduate courses for graduate credit. Students may receive a maximum of six semester hours of advanced standing from graduate credits accumulated as undergraduates. These credits may be applicable, in the Southern University Graduate School, toward a master’s degree.\* Prior approval of the dean of the Graduate School as well as the dean of the student’s college are required.

\*Credits for the courses can not have been used for an undergraduate degree

## NONDEGREE STATUS

Graduates of accredited colleges and universities who wish to enroll in selected courses, but not pursue a formal degree program at the graduate level, may be considered for admission as nondegree students in the Graduate School.

Students in this category are required to submit an official transcript, a completed admission application, and an application fee. Acceptance as a non-degree student does not in any way imply and/or guarantee subsequent change to regular admission status.

To change to degree-seeking status, and/or seek admission to a regular degree program, students must submit all of the credentials and documentation (including applicable test scores, etc.) required by the Graduate School and the specific graduate program selected.

Nondegree students will be permitted to take a maximum of six credit hours per semester (Fall and Spring) and three credit hours during each Summer term. A maximum of 12 semester credit hours taken as a non-degree student may be applied towards a graduate degree, if admitted into a graduate program at a later date, provided that:

- those 12 credit hours consist of graduate level courses (500 level and above, or equivalent);
- those 12 credit hours are part of the plan of study of the specific selected degree program and are accepted by the selected department; and
- those courses have been approved by an advisor, the department chairperson, the academic dean of the applicable college, and the dean of the Graduate School.

For additional information and details about a specific graduate program, please contact:

**The Dean, Office of Graduate Studies**

**Southern University and A&M College  
P.O. Box 9860 Southern Branch Post Office  
Baton Rouge, LA 70813-9860**

**Phone (Toll Free): 1-888-223-1460**

**Fax: (225) 771-5723**

**Email: [ejigiri@yahoo.com](mailto:ejigiri@yahoo.com)**

All requests for transcripts from Southern University, whether for official statements of graduate or undergraduate credit, should be directed to:

**The Registrar**

**Southern University  
Southern Branch Post Office  
Baton Rouge, LA 70813**

# Structure and Organization of the Research Infrastructure

## **OFFICE OF RESEARCH AND STRATEGIC INITIATIVES (ORSI)**

**Location:** 730 Harding Blvd. • Baton Rouge, LA 70807

**Hours:** 8:00 a.m. to 5:00 p.m. Monday through Friday

**Phone:** (225) 771-3890

**Fax:** (225) 771-5231

The Vice Chancellor for Research serves as head of the Office of Research and Strategic Initiatives (ORSI) and has authority to recommend research policy and procedure on a campus-wide basis. The ORSI provides administrative management and supervision in planning, coordinating, and implementing all aspects of research and development programs, institutes, and centers at the University. This office is the channel through which the University interacts with the external research sector to share its aspirations, achievements and expertise. It offers services to faculty, staff, and administration in identifying funding opportunities and in facilitating their efforts in securing and managing sponsored and elective research and creative activities. It also promotes technology transfer; faculty development activities; strengthening curricula, courses, and laboratories through incorporation of advances in research-based teaching and learning; and partnerships and collaboration with other academic institutions, industrial laboratories, and federally supported research centers to ensure research experiences that complement undergraduate and graduate studies. This office also gives administrative oversight management to those sponsored programs (strategic initiatives) on the campus that deal primarily with research experiences for undergraduates and other mentoring activities. The Office of Research and Strategic Initiatives (ORSI) was established in August 1996.

## **OFFICE OF SPONSORED PROGRAMS (OSP)**

**Location:** 730 Harding Blvd. • Baton Rouge, LA 70807

**Hours:** 8:00 a.m. to 5:00 p.m. Monday through Friday

**Phone:** (225) 771-2809

**Fax:** (225) 771-5231

Under the administrative oversight of the Office of Research and Strategic Initiatives (ORSI), a director supervises the Office of Sponsored Programs (OSP). The OSP is the central unit responsible for serving faculty, administrators, and community, by coordinating pre- and post-award functions related to sponsored and elective programs. This service includes coordinating the acquisition, monitoring, modification, and close-out of grants, contracts, and cooperative agreements. This office, within the policy of ORSI, has the authority to decide the manner in which pre-award and post-award activities are conducted campus-wide. It supports the efforts of the Office of Research by assisting faculty and others in obtaining external funds and by serving as an additional link between the University and public and private funding sources. The OSP was established in 1987.

### **Mission Statement and University Commitment to Research**

— "The University is committed to a broad program of research, both basic and applied, and creative work to stimulate the faculty and students in their quest for knowledge and to aid society in resolving its scientific, technological, socioeconomic, and cultural problems".

As Southern University and A&M College moves to achieve Doctoral Research University status, it is more committed to diligently promote, enhance, and sustain an infrastructure (internal research and development support structures) to facilitate the successful integration of research, instruction, public service, economic development, and related activities (creative activities, strategic initiatives, technology transfer, partnerships). Further, it makes research and creative activity components of instruments used in evaluating faculty for promotion, tenure, and merit raise.

### **Institutional Research Vision (Goal) Statement**

The vision for research at Southern University and A&M College is to build and sustain an infrastructure that encourages greater participation by faculty in sponsored and elective research, creative pursuits, and related activities. The ultimate measurable outcomes of achieving this vision are that such research efforts would result in an increased number of publications in refereed journals; greater and more significant opportunities for its graduate and undergraduate students to participate in creative pursuits, research, and other scholarly activities with their professors; and building nationally reputable and competitive academic departments, colleges, schools, and centers.

## **RESEARCH CENTERS AND INSTITUTE**

### **CAPITAL SMALL BUSINESS DEVELOPMENT CENTER (EST. 1986)**

The Capitol Small Business Development Center (Capital SBDC) is a public service unit of the College of Business at Southern University at Baton Rouge. The Capital SBDC is one of twelve (12) university sub-centers and is affiliated with the Louisiana Small Business Development Consortium (LSBC). The purpose of the Capital SBDC is to provide basic counseling services, training programs and seminars, and information assistance to potential and existing small businesses in a nine (9) parish area of South Louisiana. The counseling services include, but are not limited to: business transfer, minority business development, productivity improvement analysis, economic and financial analysis, and business management acumen. The workshops and seminars, offered by the center, cover a myriad of business owners and managers. In addition to the counseling and training services, the Capital SBDC maintains a resource library that contains business publications and general readings on starting and managing a small business.

### **CENTER FOR ENERGY AND ENVIRONMENTAL STUDIES**

The Center for Energy and Environmental Studies (CEES) was developed to promote interdisciplinary research, coordinate environmental and energy curricula development activities, provide services to a diverse public, and participate in the public policy arena where energy and environmental issues are concerned. These objectives are addressed through basic, applied and policy research projects; sponsorship of workshops, seminars and conferences for students, professionals and the general public; and through facilitating technology transfer to affect the state of the environment. CEES focuses special emphasis on local environmental challenges, including hazardous waste contamination, air and water pollution in the vicinity of the University and its neighboring community through the implementation of its following major components: Research Programs, Education and Training, Environmental Policy and Assessment Research, and Community Involvement. The Center has a multidisciplinary thrust involving a core staff of civil, environmental and mechanical engineers, microbiologists, environmental toxicologists, hydro-geologists and faculty and students from each college/school at the University.

### **CENTER FOR INTERNATIONAL DEVELOPMENT PROGRAMS (EST. 1982)**

The mission of the Center for International Development Programs is to provide a system-wide programmatic mechanism for promoting, initiating, and implementing international programs, consistent with

Southern University's interest and capabilities as an autonomous entity, or in concert with other institutions or agencies. Ongoing projects include the Tertiary Education Linkage Project with Vista University in South Africa (capability building, staff development, public administration, history/sociology and mathematics), University of Zulu Land in South Africa Linkage (Institutional Building-Agricultural), and Democracy in Africa (Rule of Law, Constitutional reform, legal systems).

Involvement in international development and research for over thirty years; a leading center in applied research and technology transfer to small-scale farmers; technical assistance in institution building; a variety of short-term training courses; and several national and international linkages for faculty and student exchange.

### **HEALTH RESEARCH CENTER (EST. 1960)**

The Health Research Center (HRC) is designed to advance biomedical knowledge through scientific research. Activities of the center are designed to strengthen, enrich, and promote the academic programs of participating departments of the University through scholarly and productive research efforts, seminars, presentations, symposia and community services. The HRC was established at Southern University, Baton Rouge through a matching grant from the Health Research Facilities of the Division of Research Resources of the National Institutes of Health (NIH). The center also assists faculty members in securing financial support for research, provides facilities for the same, and provides research training in the basic biomedical sciences for both graduate and undergraduate students. The Health Research Center is University-wide in its origin and interdepartmental in its roles and functions. Its faculty members are research investigators drawn from different research-oriented departments of the University with special emphasis on biomedical and/or related research projects. The Health Research Center also sponsors seminars and workshops on subjects of special interest to the University community and general public.

### **CENTER FOR SOCIAL RESEARCH (EST. 1969)**

The purpose of the Center for Social Research is to contribute effectively to the enhancement of the community by addressing contemporary social, economic and policy issues affecting the community.

The Center compliments and supports the threefold mission of the University: education, research and service. It utilizes modern methods and techniques to provide both basic and applied research that contribute to knowledge through structured and formalized investigation by faculty, staff and students.

The creation and application of new knowledge to the problems confronting communities are essential to a viable and sustained research and service mission. In this effort, the Center for Social Research provides research opportunities for faculty and students in addressing social problems affecting communities. The Center also provides technical assistance to the faculty and students, conducts basic and applied research, provides solutions to demanding social problems and addresses the critical needs of the community.

### **URBAN RECREATION RESEARCH CENTER (EST. 1998)**

The Urban Recreation Research Center (URRC) was established in September 1998 as a result of a cooperative agreement between Southern University at Baton Rouge, Louisiana and the United States Department of the Interior, National Park Service (NPS). The center is housed in the Nelson Mandela School of Public Policy and Urban Affairs. The overall goal of the center is to conduct a sustained program of social science research that will yield usable knowledge for improving the quality of services delivered by the National Park Service's urban park managers. The center's five year strategic plan identifies and addresses four critical needs expressed by NPS urban park managers namely: 1) research tasks, 2) technical assistance, 3) training opportunities, and 4) delivery methods. The center works closely with the NPS Social Science Program, dedicated to preserving the nation's natural, cultural, and historical resources.

The Urban Recreation Center (URRC) is fully committed to supporting the National Park Service in carrying out its mission, especially Director Robert Stanton's top priority to increase youth interest in national parks and to diversity the National Park Service's workforce. The Urban Recreation Research Center is positioned to become a national center of excellence dedicated to conducting a sustained program of social science research, generating usable knowledge, and assisting the National Park Service's urban park manager deliver the best service possible to their clientele.

## **STRATEGIC INITIATIVES**

### **LOUIS STOKES LOUISIANA ALLIANCE FOR MINORITY PARTICIPATION (LS-LAMP)**

The Louis Stokes -Louisiana Alliance for Minority Participation (LS-LAMP) is one of more than 30 National Science Foundation (NSF) alliance programs nationwide. LS-LAMP is designed to increase substantially the number and quality of minority students receiving baccalaureate degrees in science, technology, engineering, and mathematics (STEM) and to increase the number of minority students earning graduate degrees in STEM fields supported by NSF, with emphasis on the philosophy doctorate (Ph.D.). The long term goals of the LS-LAMP program are to double the number of Louisiana minority students receiving BS degrees in STEM disciplines (from 500 to 1000) and for at least 20% of these BS recipients to be accepted into STEM graduate school programs. The basic strategy of LS-LAMP, as per its proposal, is the statewide replication of the proven and US Presidential Award winning 10-Strand Systemic Mentoring model of the Timbuktu Academy at Southern University and A&M College in Baton Rouge (SUBR). The referenced systemic mentoring activities, including financial support, scientific advisement, research participation, monitoring, and guidance to graduate school or the high technology industry, are carried out in the undergraduate STEM programs at the eleven (11) LS-LAMP institutions [i.e., Dillard University, Grambling State University, Louisiana State University, McNeese State University, Nunez Community College, Southern University and A&M College, Southern University at New Orleans, Southern University at Shreveport, Tulane University, the University of New Orleans, the University Louisiana at Lafayette, and Louisiana Universities Marine Consortium (LUMCON)]. The Louisiana Alliance is led by Southern University and A&M College in Baton Rouge (SUBR) with the active input and advice of an array of collaborating public and private sector entities including the LS-LAMP Governing Board, chaired by the Commissioner of Higher Education.

### **THE HBCU-UP -STRENGTHENING MINORITY ACCESS TO RESEARCH AND TRAINING (SMART)**

“Strengthening Minority Access to Research and Training” (SMART) is Southern University’s, National Science Foundation supported, HBCU-UP long-range strategic plan of action which addresses the historical under-representation of minorities in baccalaureate and doctoral ranks of science, technology, engineering, and mathematics (STEM) disciplines. The objectives of SMART are to help increase retention and graduation rates of STEM majors and to increase the number of the STEM baccalaureates who pursue doctoral degrees in STEM disciplines.

This program includes all majors in biology, chemistry, computer science, physics, urban forestry, architecture, agricultural sciences, mathematics, and engineering (chemical, civil, electrical, and mechanical), engineering technology, and a special emphasis on oral and written communication. It proposes to close the loop by targeting a large population of STEM students and faculty not being served by other programs. The program’s design, however, is to reinforce the goals and objectives and strengthen the outcomes of similar programs such as the NSF sponsored Louis Stokes-Louisiana Alliance for Minority Participation.

As part of the undergraduate research experience component, SMART provides stipends to full-time SUBR undergraduate students (U.S. citizens and permanent residents) to support hands-on involvement in research and educational activities in STEM areas during summers and academic semesters. It also offers financial support for curricula and faculty development.

### **TIMBUKTU ACADEMY**

Established in 1990-91, with funding from the National Science Foundation (NSF) and the Louisiana Board of Regents, the Timbuktu Academy initially mentored a few high school students during the summer and 20 Physics majors throughout the academic year. After three years of success, the Academy received a significant funding from the US Department of the Navy, Office of Naval Research (ONR), for 10 years, from 1993 to 2003. This funding served to expand and to strengthen the Academy (a) to offer summer academic enrichment to 100 to 200 pre-college students, from elementary to high school, (b) to enroll twenty high achieving high school graduates in its Summer Bridge Institute (SBI),

(c) to immerse 50-100 undergraduate students in its 10-strand systemic mentoring model, produce and disseminate new knowledge in teaching, mentoring and learning (TML), and (d) to provide extensive, educational services to the pre-college and other communities. These outreach operations have mainly been funded by NASA. From 2003 to present, the organizations and agencies funding the Academy include NSF, ONR, NASA, the Hewlett Packard Company, ExxonMobil Foundation (through the Bernard Harris Foundation), and the Dr. Lamar Ellis Trust Fund. The 10-Strand Systemic Mentoring model of the Academy and its 10-Strands of Competitive Education, along with several publications and basic statistical information on its results are available at its web site ([www.phys.subr.edu/timbuktu.htm](http://www.phys.subr.edu/timbuktu.htm)). This site also provides complete information on the various programs of the Academy, including the ones for pre-college students. To date, the Academy has significantly enhanced the academic achievements of over 1,800 pre-college students, has mentored to excellence and guided to graduate school or the high technology industry over 150 undergraduate students majoring in Physics, Chemistry, Engineering, Mathematics, Biology, and Computer Science. The work of the Academy earned an individual US Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring to its director, in 1996, the US Presidential Award for Excellence to the Academy itself, in 2002, and the 2007 Benjamin Banneker Legacy Award. The pre-college Science Bowl teams of the Academy won first place at the annual, national competition of NOBCCHE ([www.nobcche.org](http://www.nobcche.org)) in 2003, 2004, 2006 and 2007 for the Senior teams, and in 2005 and 2006 for the Junior teams. Both teams placed second in 2008 (to give some hope to others) with the intent of recapturing the throne in the years ahead. Publications of the Academy, available at its web site, demystified the process of learning and placed teaching, mentoring, and learning on a rigorous scientific basis using the Power Law and the Law of Human Performance, the internal hierarchy of knowledge in various disciplines, and other fundamental tenets. For the last 10 years, the Academy has helped high school participants to increase their average American College Test (ACT) scores, after six (6) weeks of the summer programs, by as much as typical high schools do in 36 weeks. Consequently, 5 to 10 participants become National Merit or National Achievement finalists every year. The undergraduate Alumni of the Academy enroll and succeed in graduate schools around the country – with full financial support – at rates much higher than the national ones. At the Academy, it is not a belief, but rather a scientifically established fact that all students can learn, and very well. According to the Director, “Luck is what happens when preparation meets, recognizes, and acts on opportunity.”

## SELECTED RESEARCH LABORATORIES (COLLEGES OF ENGINEERING AND SCIENCES)

### COLLEGE OF ENGINEERING

The College of Engineering operates and maintains several computer laboratories for research activities. The following applications are installed in all computer laboratories: Windows 2000, Office XP Suite, Publisher XP, I-deas 7, Matlab R12, Algor, Adams, AutoCAD 2002 Suite, SPSS 10.1, Acrobat Reader 5.1, Internet Explorer 6, QuickTime 6, PSpice 9.2.3, FEMap 8.1, Xilinx 5.1i Suite, Norton Antivirus Corporate Edition 7.6, Direct X 9, Visual Studio.Net Suite and Windows Media Player 9. These are:

**Advanced Computing Laboratory.** The College has a state-of-the-art workstation laboratory which contains 20 Dell Precision 530 workstations with 1.8GHz CPUs, DUAL 19" digital flat panel monitors and Wildcat 6110 digital video cards. The Wildcat 6110 digital video cards have a total of 206MB RAM to quickly solve complicated graphic problems. A HP Design jet 5000PS 42 inch plotter is used to print CAD drawings, posters, and other large format output. Two Thermo jet 3D printers are available that allow to print 3D physical representations of their models. The thermoplastic, used in the Thermo jet 3D printers as a building material to construct objects, is very durable. The SLA 250 model Thermojet is a stereolithography solid object printer that uses a liquid polymer resin, in conjunction with a laser, to produce 3D objects.

**CAD Laboratories.** The College has two CAD laboratories which contain a total of 60 computers (30 in each lab). One CAD lab contains Dell Optiplex GX240 computers which include 1.8GHz CPUs, 40GB hard drives, 512MB RAM, and 19" monitors. The other CAD lab has Dell Precision 530 workstations with 1.8GHz CPUs, 19" digital flat panel monitors, and Wildcat 6110 digital video cards. The Wildcat 6110 digital video cards have a total of 206MB RAM to quickly solve complicated graphic problems.

**CAVE.** The College of Engineering has a Computer Automatic Virtual Environment (CAVE). The CAVE is the most widely used walk-in visualization environment in the world. Southern University is the first in the state to provide such a useful and powerful tool. What makes this CAVE even more unique is the fact that it is a Windows 2000 based CAVE. Most CAVEs are Linux based systems that are often difficult for inexperienced end-users to use. The Windows 2000 interface provides drag and drop capability and a much smaller learning curve for users. Data from any of our engineering programs (I-DEAS Master Series, Matlab, Fluent, AutoCAD, Algor, Adams, etc.) can be viewed in the CAVE. Faculty and students can visually interact with their data in real time 3D by wearing stereo glasses and using interactive gloves while viewing the data.

The Department of Civil and Environmental Engineering is the home of the Samuel Massie Chair of Excellence and the Safety of Dams Training programs. These programs create a model research atmosphere in the field of environmental Engineering and water resources to complement the academic program in Civil Engineering and to promote scholarly advancement through research and publications. The Department has a state-of-art environmental laboratory to perform air, soil, and water analyses for both organic and inorganic compounds on a wide range of materials. In addition, the environmental laboratory can support research in water and wastewater analysis, solid and hazardous waste, air quality and bioremediation. The Department has the necessary equipment and the laboratory space to perform most fundamental laboratory experiments in construction materials, environmental, hydraulics, soil mechanics, and surveying.

The Department of Electrical Engineering has fifteen (15) instructional and research laboratories. The labs are equipped with state-of-the-art equipment and instrumentation. They are: Telecommunication and Information Technology, Computer Network and Wireless Data communication and Inter facing program, mechatronics, automation and control of computer integrated manufacturing tools. A telecommunication lab contains modular communications components from which students currently build and study IS & FM transmitters and receivers and data modems. Oscilloscopes, spectrum analyzers, and other test equipment provide the capability to measure performance and signal characteristics. The lab also houses Analog/Digital conversion hardware and a set of workstations running Digital Signal Processing software for modeling and study of digital filtering techniques. Solid-state Devices and VLSI Laboratory houses equipment such as a water probing station and a transistor parametric tester. They are used for characterization and testing of devices and integrated circuits. A High Performance Computing Multi-Media Laboratory is used extensively in government and industry supported research of high-speed data interfaces and protocols.

The Department of Mechanical Engineering has eighteen (18) instructional and research laboratories. The labs are equipped with state-of-the-art equipment and instrumentation. The department's material testing capabilities in the area of materials science and engineering consist of an Instron 1230, a 55 kips rated MTS 810 Servo-hydraulic Universal Testing Machine equipped with numerical controlled hardware and software for mechanical testing up to 1000 °C, a Dynatup Model 8250HV High Velocity Impact equipment integrated with an environment conditioning system for testing temperature range of -50 °C to 175 °C and fully computer control and data acquisition system, a multi-specimen fatigue machine, Solartron SI 1280 electro-chemical measurement equipment and corrosion monitoring interface, an in-house microscopic image processor, and a Scanning Electron Microscope (Hitachi S-2460N) for fractography and microstructure analysis. Also, a complete set of equipment for light microscopy and metallography is available. In design and manufacturing area a CAD/CAM laboratory coupled with a computer-integrated manufacturing (CIM) laboratory provide hands-on experience and an understanding of the design to manufacturing concept. The department's model shop is used by the students to construct their design prototypes or prepare experimental research setups. The aerodynamic and fluid mechanics laboratories with a 0-140 fps wind tunnel, a water tunnel, and a 3-D Laser Doppler Anemometer provide research and instructional capabilities.

## COLLEGE OF SCIENCES

The Department of Biology has several laboratories that are equipped with state of the art instrumentation and animal quarters for health and biological science research. A new two-story building with five additional research labs was recently built for biological and biochemical research. A transmission electron microscope and a biotechnology lab are the latest addition.

The Department of Chemistry houses nine research laboratories, three instrumentation laboratories, three service storerooms, and other support services. The laboratories are equipped with state-of-the-art instruments which include a Mass Spectrometer, two Atomic Absorption spectrometers, a scintillation counter, several gas chromatographs, an HPCL FT/NMR (400MHz) AC, a total carbon analyzer, an ultracentrifuge, an automatic titrator, and several infrared, ultraviolet, and visible spectrometers.

The Department of Computer Science houses seven computer laboratories and the Southern University Industrial Applications Center (SU/IAC) with access to nearly 500 computerized databases including Scientific and Technological Databases, the Commerce Business Daily, Business and Industry Databases, and the Database of Databases. Some of the equipment includes DEC VAX 8200 Raytheon data system, PTS/1200, seven AT&T 3B2/300's linked by STARLAN, AT&T 3B2/400, DEC PDP 11/70, seven AT&T UNIX 7300 PC's, a teaching laboratory with 25 IBM PS/2's linked by a Token Ring, and other pieces of equipment. These Local Area Networks (LANs) are connected to a campus network of mainframe computers, including IBM ES 9000 and IBM 4341.

The Department of Physics houses 11 instructional laboratories and four (4) research laboratories, including the Particle Detector and High Energy lab and the High-Tec Superconductivity Study and Molecular Dynamics Simulation Lab. Instrumentation includes a Fourier Transform IR Spectrophotometer, a CAMAC Based Data Acquisition System, a sun spac Station, 35 IBM computers, 15 MacIntosh computers, a Digital Computer Vax Station, four Gateway 2000 XL computers, and other equipment.

## ADMINISTRATIVE SUPPORT UNITS

### RESEARCH COUNCIL

The University Research Council advises the University on matters related to research and development. In particular, the council participates in research policy development and in the establishment and maintenance of an environment conducive to competitive research, sponsored projects, and the coupling of the activities with graduate and undergraduate training. Members of the Research Council are selected from colleges and schools significantly involved in research and/or scholarly activities and from major interdisciplinary research centers and units. The dean of graduate studies is an ex-officio member of the Research Council.

### GRADUATE COUNCIL

The Graduate Council, in conjunction with the graduate faculty, serves and acts on behalf of the faculty and students of the Graduate School. The purpose of the Graduate Council is to promote high quality programs of graduate education through providing a forum for broad participation in the formulation of those academic policies, which govern graduate programs. In addition, the Graduate Council performs the functions of review and coordination.

### OFFICE OF PLANNING, ASSESSMENT AND INSTITUTIONAL RESEARCH (PAIR)

The mission of the Office of Planning, Assessment and Institutional Research is to enhance institutional effectiveness with information to support planning, assessment, operations management, policy information, and decision making. The office also serves as a repository of information for the University. Activities of the office include data collection, analysis, and dissemination; development of databases suitable for longitudinal studies and statistical analysis; preparation of surveys related to University constituents; conducting studies related to students, personnel, programs, and services; and coordinating the

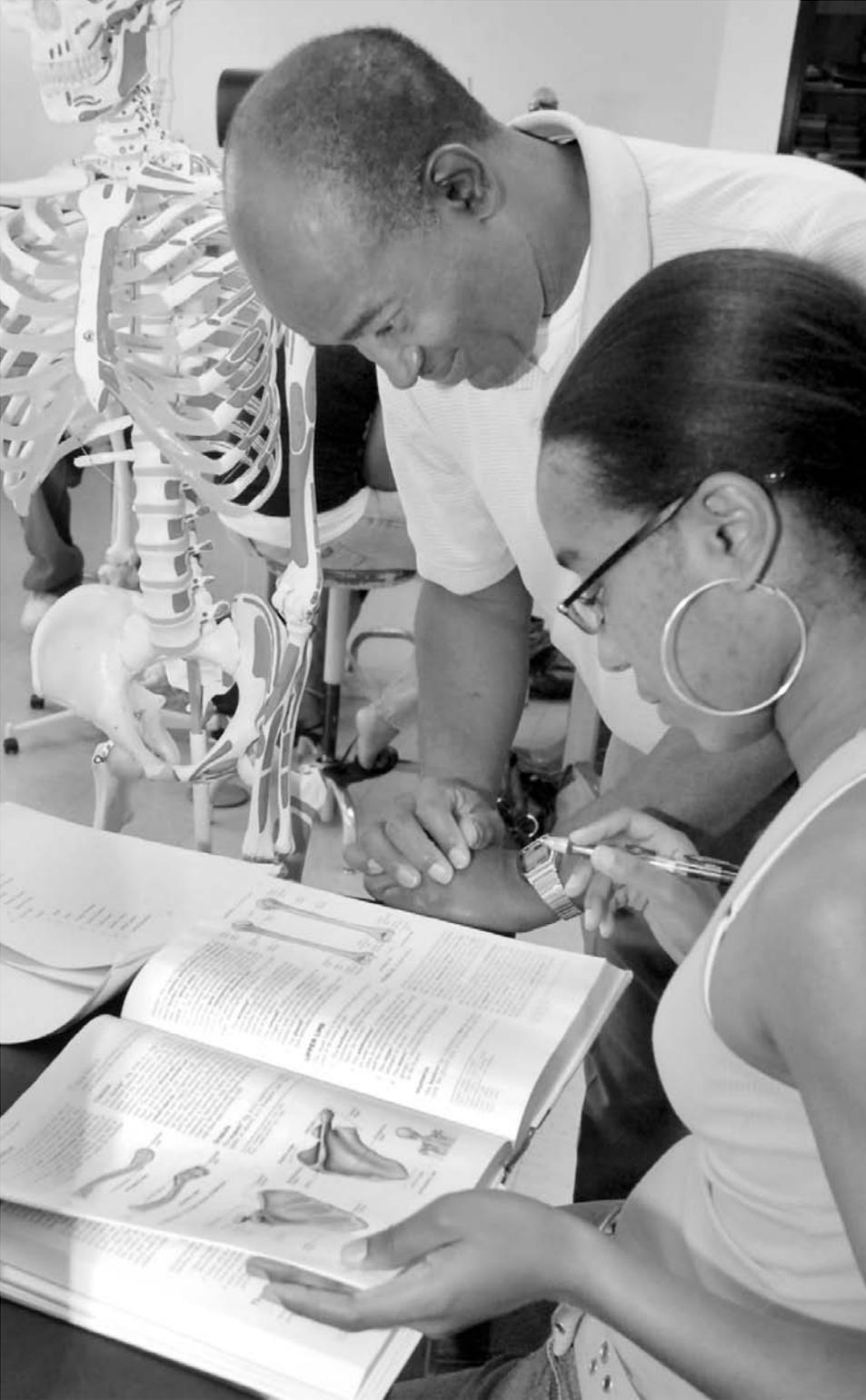
strategic planning and assessment functions of the University. The office also prepares the University's annual report of accomplishments and the annual report on performance accountability.

### **OFFICE OF THE COMPTROLLER**

The primary objectives of the Comptroller's Office are:

- To maintain fiscal accountability through effective and efficient management of financial resources;
- To ensure that adequate financial resources are available to support the University's instructional research and outreach missions; and
- To maintain fiscal integrity through responsible record-keeping to safeguard University assets.

Major services provided to the University include financial accounting reports, grants and contract management, budgetary control, processing student and vendor payments, disbursing student loans, collecting registration fees, processing employee and student payrolls, auditing and releasing checks, reconciling bank accounts, managing investments, processing student and employees identification cards, controlling and issuing billing statements, collecting outstanding debts, and safeguarding University assets. The Comptroller's Office provides accounting services and acts as a liaison between the Baton Rouge campus and the other campuses of the Southern University System.



# Courses of Instruction

## COURSE DESIGNATIONS AND RUBRICS

Accounting	ACCT	Management	MGMT
Aerospace Studies	ASST	Marketing	MKTG
Agricultural Economics	AGEC	Mass Communication	MCOM
Agricultural Sciences	AGSC	Mathematics	MATH
Arabic	ARAB	Mechanical Engineering	MEEN
Architecture	ARCH	Military Science	MILS
Behavioral Studies	BHVS	Music	MUSC
Biological Sciences	BIOL	Naval Science	NAVS
Chemistry	CHEM	Nursing	NURS
Chinese	CHIN	Philosophy	PHIL
Civil Engineering	CIEN	Physical Education	PHED
Computer Science	CMPS	Physics	PHYS
Criminal Justice	CRJU	Political Science	POLS
Curriculum and Instruction	CRIN	Psychology	PSYC
Economics	ECON	Rehabilitation Services	REHB
Electrical Engineering	ELEN	Service Learning	SVLR
Electronic Business	EBIZ	Social Work	SOCW
Electronics Engineering Technology	EENT	Sociology	SOCL
Engineering	ENGR	Spanish	SPAN
English	ENGL	Special Education	SPED
Family and Consumer Sciences	FCSC	Speech-Language Pathology	SPAU
Finance	FINC	Speech and Theatre	SPTH
French	FREN	Swahili	SWAH
Freshman Studies	FRMN	Therapeutic Recreation and Leisure Studies	TRLS
Geography	GEOG	University College Studies	UCOL
German	GERM	Urban Forestry	UFOR
Health	HLTH	Visual Arts	ARTS
Health Sciences	HLSC	Wolof	WOLO
History	HIST	Women's Studies	WMST
Humanities	HUMN		
Japanese	JAPN		

**ACCOUNTING (ACCT)**

200. FINANCIAL ACCOUNTING PRINCIPLES (Credit, 3 hours). Accounting concepts and principles applicable to business enterprises, including a study of the accounting cycle, accounting for selected assets and liabilities, and preparation and presentation of financial statements for external users.

201. MANAGERIAL ACCOUNTING PRINCIPLES (Credit, 3 hours). Analysis of financial statements, budgeting, using accounting information for internal decision-making purposes, accounting for manufacturing operations, financing growth, and investing excess cash.

300. INTERMEDIATE ACCOUNTING I (Credit, 3 hours). Accounting theory and practice underlying the preparation and presentation of financial statements, measurements and valuation of assets and liabilities, accounting for selected balance sheet, and related income statement items. Prerequisite: ACCT 201.

301. INTERMEDIATE ACCOUNTING II (Credit, 3 hours). Continuation of ACCT 300. Accounting theory and practice related to corporate capital, current liabilities, long-term debt, pensions, leases, income tax allocation, revenue recognition, and preparation of the cash flow statement. Prerequisite: ACCT 300.

305. FINANCIAL STATEMENT ANALYSIS (Credit, 3 hours). Emphasis on the end results of reporting and interpreting these results to aid in decision-making. Topics include ratio analysis, leverage analysis, trend analysis, cash flow analysis, impact of inflation on financial statements, and correlations of book values to market values. Prerequisite: ACCT 201.

310. TAX ACCOUNTING (Credit, 3 hours). Fundamentals of federal income tax accounting with emphasis on individuals, income inclusions and exclusions, business expenses, capital gains and losses, statutory deductions, and other topics. Prerequisite: ACCT 201.

320. MANAGERIAL COST ACCOUNTING (Credit, 3 hours). Principles and practices of cost determination and cost control, including such topics as cost allocation procedures, job order and process costing, direct and absorption costing, budgeting, standard costs, responsibility accounting, short-term and long-term decision analysis, and other topics. Prerequisite: ACCT 201.

330. INTERNAL AUDITING (Credit, 3 hours). Internal audit standards and concepts, evaluation of internal control, risk analysis, evidence, reporting audit results. Prerequisite: ACCT 300.

340. ACCOUNTING INFORMATION SYSTEMS (Credit, 3 hours). Analysis, design, and installation of accounting systems and understanding the control procedures required, with emphasis on computer-based systems. Prerequisites: ACCT 201, CMPS 290.

360. ACCOUNTING FOR NOT-FOR-PROFIT ORGANIZATIONS (Credit, 3 hours). Accounting principles and practices for local, state, and federal governments and for private not-for-profit institutions, including emphasis on the unique problems of recording and reporting of financial information, budgeting, cost control, and performance measurement. Prerequisite: ACCT 201.

400. ADVANCED ACCOUNTING (Credit, 3 hours). Theory and practice underlying accounting for partnerships, business combinations, and presentation of consolidated financial statements. Prerequisite: ACCT 301.

408. FINANCIAL ACCOUNTING THEORY I (Credit, 3 hours). Study and critical evaluation of recent developments in accounting theory and practice with emphasis on pronouncements and issues under study by standard-setting bodies of the accounting profession. Prerequisite: ACCT 301.

410. ADVANCED TAX ACCOUNTING (Credit, 3 hours). Advanced study in federal income taxation with emphasis on corporations,

shareholders, partnerships, estates and trusts, social security, gift taxes, and other topics. Prerequisite: ACCT 310.

**420. ADVANCED COST ACCOUNTING** (Credit, 3 hours). Advanced topics in cost analysis for planning and decision-making purposes including capital budgeting, inventory planning, make-or-buy and product mix decisions, special problems of decentralized companies, application of quantitative techniques to decision-making problems, behavioral and social aspects of accounting, and other topics. Prerequisite: ACCT 320.

**430. AUDITING** (Credit, 3 hours). Study of generally accepted auditing standards and procedures with emphasis on auditing pronouncements of the AICPA, the requirements of the SEC and other standard-setting bodies. Prerequisite: ACCT 301.

**432. ADVANCED INTERNAL AUDITING** (Credit, 3 hours). A study of advanced internal auditing topics such as fraud, computer audits, statistical auditing techniques, and issues of current interest in internal auditing. Prerequisite: ACCT 330.

**435. ADVANCED AUDITING** (Credit, 3 hours). In-depth study of current topics and problems in auditing theory and practice, including the philosophical aspects of auditing, operational audits, role of the internal auditing function, auditing standards in government, specialized auditing aspects of some selected industries, and other selected topics. Auditing cases and practice sets are used. Prerequisite: ACCT 430 or permission of instructor.

**461. ADVANCED BUSINESS LAW FOR ACCOUNTANTS** (Credit, 3 hours). Study of specific areas of law, pertaining to business transactions with emphasis on legal concepts underlying sale of goods, agency, security devices, commercial paper, accountants liability, business organization, and bankruptcy; application of uniform commercial code; and preparation for the CPA examination. Prerequisite: MGMT 360. Credit will not be given for both this course and MGMT 460. Accounting majors only.

**480. INTERNATIONAL ACCOUNTING** (Credit, 3 hours). A study of international accounting concepts and standards from the perspective of international financial control and reporting to parties outside the firm, including the examination of the issues of transfer pricing, currency translation, taxation, professional and institutional regulations, inflation, foreign investment analysis, accounting under different economic systems, and other selected topics. Prerequisite: ACCT 301.

### **AEROSPACE STUDIES (ASST)**

(Courses are conducted at Louisiana State University under the Southern University—Louisiana State University Cooperative Program. Students at Southern University enroll in these courses using the cross registration process. For information regarding these courses, consult the Louisiana State University catalog.)

### **AGRICULTURAL ECONOMICS (AGEC)**

**212. APPLIED ECONOMIC PRINCIPLES** (Credit, 3 hours). An applied course in principles of economics with special reference to the rural subsector. Principles of economic growth and development are surveyed along with fundamentals of micro- and macro-economic theories. Microeconomic theory is the basis for the course.

**311. FARM MANAGEMENT** (Credit, 3 hours). Business management principles are stressed. Economic principles as applied to the organization and operation of farms, total and partial budgeting, farm record analysis, farm financial management, and analysis of farm leases are also considered. Prerequisites: AGECE 212 or ECON 210.

**312. AGRIBUSINESS MANAGEMENT** (Credit, 3 hours). A survey course in agribusiness methods and management. Covers general aspects of agribusiness, including economic conditions, legal environment, farming subsectors, financing, and marketing of agricultural inputs. Prerequisites: AGECE 212 or ECON 210.

**333. FINANCIAL MANAGEMENT** (Credit, 3 hours). Course designed to cover the capital needs of individual farms and agribusiness firms, financial management tools, legal instruments,

and financial institutions. Emphasis on decision-making, firm growth, financial leverage, liquidity, capital rationing, and budgeting. Prerequisite: AGEC 311.

412. PUBLIC POLICY (Credit, 3 hours). Study of policy issues facing the industry, analysis of past and current federal and state governmental policies, programs, and effects on agriculture; the use of economic concepts to evaluate possible future agriculture policies and programs. Prerequisite: AGEC 212 or ECON 210.

422. MARKETING AGRICULTURAL PRODUCTS (Credit, 3 hours). The economic principles of marketing agricultural products, marketing systems; functions; structure, conduct, and performance of agricultural products markets; and concepts of perfect and imperfect markets. Prerequisite: AGEC 212 or ECON 210.

432. LAND RESOURCE ECONOMICS (Credit, 3 hours). Land use, classification, settlement patterns, land tenure system, taxation of real property, problems rising from the nonfarm use of farm land, and land zoning issues. Prerequisite: AGEC 212 or ECON 210.

451. COOPERATIVE STRUCTURE AND MANAGEMENT (Credit, 3 hours). Organization, management, and operation of cooperatives including both marketing and supply cooperatives. Legal status and special problems of finance and control, and the role of cooperatives in the structure and control of food production and marketing. Prerequisite: AGEC 212 or ECON 210.

461. PRICE ANALYSIS (Credit, 3 hours). Application of economic theory, mathematical, and statistical concepts to problems involving price discovery and determination, derivation of theoretical and empirical demand and supply models, and computation and interpretation elasticity coefficients. Prerequisites: AGEC 422 or ECON 310, MATH 203, and 274.

462. RESOURCE ECONOMICS (Credit, 3 hours). Economic analysis of private and public decisions regarding interaction with the natural environment, including water and land use, air and water pollution, waste disposal, property rights, and related

government policies with specific emphasis on the agricultural sector. Prerequisite: AGEC 212 or ECON 210.

465. ECONOMIC DEVELOPMENT (Credit, 3 hours). Analytical consideration of the role of agriculture in economic development; essentials for achieving growth with development; and theoretical and policy issues of relevance to the development process in low income countries of various social, political, and economics systems. Prerequisites: Six hours of economics principles or consent of instructor.

470. APPLIED STATISTICS (Credit, 3 hours). Principles and methods involved in the collection, analysis, and interpretation of statistical data with special reference to the agricultural sector Emphasis placed on linear models, constrained optimization, and other statistical methods used to analyze and interpret economic data. Prerequisites: AGEC 212 or ECON 210 and MATH 274.

499. SPECIAL PROBLEMS IN AGRICULTURAL ECONOMICS (Credit, 3 hours). Research methodology, writing and oral presentation of research reports. Practical experiences acquired while working as a co-op student or student trainee with a private firm or governmental agency may form the basis of this report. Prerequisites: major in the department; completed 90 credit hours of required courses toward major, and MATH 274.

### AGRICULTURAL SCIENCES (AGSC)

110. ORIENTATION TO AGRICULTURAL SCIENCES (Credit, 2 hours). Designed to help students become better acquainted with the food and agricultural sector's contribution to the nation, career opportunities it offers, and future trends in the field.

121. ANIMAL SCIENCE (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Basic biological concepts as they relate to domestic farm animals and certain wildlife species common to the United States. Emphasis placed on heredity, evolution, reproduction, growth, and developmental biology.

201. HOME VEGETABLE GARDENING (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). A practical course in home vegetable gardening; subject matter includes garden soil fertility, variety selection, cultural practices, pest management and proper harvesting and handling of produce; student will plant and grow a mini garden on plots located on the college's horticulture farm.

203. SOIL AND ENVIRONMENT. (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Fundamentals of soil science with respect to origin, composition, physical and chemical properties of soil, soil-water-plant relationships, fate of contaminants in surface and subsurface environments, productivity and management of soil in rural and urban environments.

210. PLANT SCIENCE (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). A basic course on plant biology and its relationship with the environment. Major emphasis will be placed on cell biology, morphology, physiology, reproduction, and culture of domestic economic plants.

211. POULTRY PRODUCTION (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). An overview of the poultry industry including types of production, breeds of domestic fowl, feeding, care and management of poultry flocks, and processing and marketing of poultry products. Prerequisites: AGSC 121 or consent of the program leader.

213. PRINCIPLES OF DAIRYING (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Principles involved in production, breeding, selection, feeding, and care of dairy animals. Laboratory exercises include butter-fat determination, artificial insemination, milking, pasteurization, homogenization, and packaging. Prerequisites: AGSC 121 or consent of the program leader.

220. PLANT PROPAGATION (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). A study of the principles and practices of sexual and asexual propagation of plants.

230. BIOMETRICS (Credit, 3 Hours). Course covers elementary probability, sampling distributions, normal theory estimation and hypothesis testing, regression and correlation, exploratory data analysis,

and one-way analysis of variance. Learning to do statistical analysis on the computer is an integral part of the course. Prerequisite: MATH 130 or 135.

302. PRINCIPLES OF CROP PRODUCTION. (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Crop plants in relation to the environment, adaptation of field crops, tillage operations, fertilization and irrigation practices, pest control, seeding rate, varieties, harvesting, and storage of field crops.

304. FORAGE CROPS AND PASTURE MANAGEMENT (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Characteristics, adaptation, culture, establishment, utilization, and management of the most important forage crops grown in Louisiana; includes methods of pasture production, with their application under various conditions.

305. SOIL FERTILITY AND PLANT NUTRITION (Credit, 3 hours) (Lec., 2 hours; Lab., 2 Hours). Chemical and nutrient status of soils in relation to crop requirements; fertilizer sources, composition and manufacturing of fertilizers; management practices for maintenance of adequate supply of essential plant nutrients. Prerequisite: AGSC 203.

306. SOIL AND WATER CONSERVATION (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Integrated management of soil and water, conservation practices for effective control of erosion and surface and ground water quality, wind erosion, includes maintenance of soil fertility and productivity, and approved practices for erosion and soil water pollution control.

307. PLANT PATHOLOGY. (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Plant disease: concepts and symptoms; study of bacteria, fungi, viruses, mycoplasmas, and nematodes as causal agents of plant diseases; control of plant diseases using examples of diseases affecting major field crops and ornamentals in Louisiana.

308. COOPERATIVE SUMMER TRAINING (Credit, 3 hours). An off-campus summer training program for plant and soil science majors who have successfully completed required courses for the sophomore year.

311. ORNAMENTAL HORTICULTURE (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). A study of the culture and management of ornamental plants, shrubs, shade trees, and turf grasses and their importance in relation to landscaping.
312. MEATS (Credit, 3 hours) (Lec., 1 hour; Lab., 3 Hours). Course includes importance of meat in the diet, structure of meat carcasses, fabrication of wholesale and retail cuts, and utilization of animal by-products. Prerequisites: AGSC 121 or BIOL 104 and 105.
314. POMOLOGY (Credit, 3 Hours) (Lec., 2 hours; Lab., 2 hours). Principles and practices of fruit growing in Louisiana with emphasis on varieties of fruit trees, establishment of the orchard, cultivation, and management.
321. DISEASES OF FARM ANIMALS (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). A study of livestock diseases and parasites which are of greatest economic importance. Prerequisites: AGSC 121 or BIOL 104 and 105.
340. APPLIED ENTOMOLOGY. (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). A basic study of the anatomy and taxonomy and life cycles of insects, with emphasis on those of economic importance; principles and practices of insect control in major economic crops in Louisiana.
341. LIVE ANIMAL AND CARCASS EVALUATION (Credit, 3 hours) (Lec., 1 hour; Lab., 3 hours). Basic principles and techniques involved in evaluation of meat animals, and their carcasses. Prerequisite: AGSC 121.
342. SOIL AND WATER MANAGEMENT (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Principles and practices of maintaining optimum levels of moisture in soil under various cropping systems with emphasis on Louisiana conditions.
344. INTEGRATED PEST MANAGEMENT (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). General overview of major insect pests and diseases that affect agronomic and horticultural crops. Various control strategies including chemical, biological and integrated pest management will be highlighted. Laboratory classes will include insect identification and study of selected disease cycles.
351. MARKETING POULTRY PRODUCTS (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Preparation of eggs and poultry for market, methods of grading, packing, storing and marketing eggs and poultry. Prerequisites: AGSC 211 or consent of program leader.
352. SOIL CHEMISTRY (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Origin of soil chemical properties; chemistry of soil fertility and fertilizer interaction. Prerequisite: AGSC 203.
401. DAIRY MICROBIOLOGY (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Application of bacteriological procedures used in quality control, hygienic production, handling, and processing of dairy products. Prerequisites: BIOL 230 or consent of program leader.
403. PLANT BREEDING (Credit, 3 hours). A study of basic principles of breeding the major agronomic and horticultural plants.
404. WEEDS AND WEED CONTROL (Credit, 3 hours) (Lec., 2 hours-, Lab., 2 hours). Principles and practices of weed control in major agricultural crops; includes weed characteristics, biological, cultural and chemical controls, herbicide classification, toxicity and mode of action.
405. TESTING DAIRY PRODUCTS (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Comprehensive examination of methods of chemical analyses of dairy products and related non-dairy products; emphasis on interpretation and application as related to product control. Prerequisites: AGSC 213 or consent of program leader.
406. SOIL GENESIS: CLASSIFICATION, AND SURVEY (Credit, 3 hours) (Lec., 2 hours; 3 Lab., 2 hours). A study of the factors and processes of soil formation, introduction to soil surveys; and study of major soil classification systems. Prerequisite: AGSC 203.
407. SOIL PHYSICS. (Credit, 3 Hours) (Lec., 2 Hours; Lab., 2 Hours). Physical principles and composition affecting air, water and heat relation; soil strength and tillage properties. Prerequisite: AGSC 203.

410. AGRICULTURAL GENETICS (Credit, 4 hours) (Lec., 3 hours; Lab., 2 hours). Basic principles of inheritance in man, farm animals, and plants. Coverage is given to Mendelian inheritance, molecular and population genetics. Prerequisites: BIOL 104 or 105 or consent of program leader.

411. SPECIAL PROBLEMS I (Credit, 3 hours) Provides an opportunity for the plant science or soil science major to pursue independent technical reading and research of a topic in which he/she is interested and experience in preparing technical papers; conducted under the supervision of a staff member. Prerequisites: junior, senior, or graduate standing, and consent of program leader.

412. SPECIAL PROBLEMS II (Credit, 3 hours). Provides an opportunity for plant science or soil science students to pursue in-depth and independent research on a topic of interest under the supervision of a faculty member. Prerequisites: junior, senior, or graduate standing and consent of program leader.

420. ANATOMY AND PHYSIOLOGY (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). A general course in comparative anatomy and physiology with special emphasis on structure and function of endocrine glands and their interrelationship with the organs in the body of domestic animals. Prerequisites: AGSC 121 or consent of program leader.

421. ANIMAL BREEDING (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Basic processes of inheritance in farm animals, records of performance, methods of selection, breeding systems, and practices for genetic improvement of the various classes of farm animals. Prerequisites: AGSC 410 or consent of program leader.

428. COMMERCIAL VEGETABLE PRODUCTION (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Cultural practices and problems involved in production of the important fresh market vegetable crops in Louisiana.

430. PHYSIOLOGY OF REPRODUCTION (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Physiological approach to reproductive processes in animals with emphasis on domestic species. Study includes anatomy, hormonal control, reproductive cycles, behavior, egg and sperm physiology, fertilization, gestation, par-

turition, artificial insemination, and embryo biotechnology. Prerequisites: ANSC 121 or BIOL 104 and 105.

431. ANIMAL SCIENCE PROBLEMS (Credit, 3 hours). Directed individual study of a selected problem in animal agriculture. Prerequisites: Senior or graduate classification, or consent of program leader.

432. APPLIED ANIMAL NUTRITION (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Course designed to bridge the gap between animal nutrition and livestock feeding practice. Extends basic animal nutrition into applied animal nutrition. Feed requirements of swine, beef cattle, sheep and dairy cattle with practice in formulating least cost rations and the feeding of these animals. Prerequisites: AGSC 121, 211, or 213.

440. ANIMAL NUTRITION (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Fundamental principles of nutrition including chemical composition of feeding stuffs, digestion, metabolism, functions, and values of nutrients to the body.

442. SWINE PRODUCTION (Credit 3 hours) (Lec., 2 hours; Lab., 2 hours). Theory and practical work on breeding, feeding, and management of swine for production under southern conditions. Prerequisite: AGSC 121.

446. PLANT TAXONOMY (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). A study of principles, nomenclature, classification and identification of seed plants.

450. BEEF CATTLE PRODUCTION (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). A study of beef cattle production with emphasis on practical work in feeding, care, and management under southern conditions. Prerequisite: AGSC 121.

451. LIVESTOCK MANAGEMENT (Credit, 3 hours). (Lec., 2 hours; Lab., 2 hours). Management of livestock enterprises (beef, dairy, poultry, and swine) including planning, budgeting, ration formulation, integrated resource management, and marketing. Computer applications are emphasized. Prerequisite: AGSC 121.

472. SEMINAR IN AGRICULTURAL ISSUES (Credit, 3 hours) Students, faculty, and staff discuss current topics in agricultural, family and consumer sciences, agricultural research, education, and related areas.

### ARABIC (ARAB)

100 ELEMENTARY ARABIC I (Credit, 3 Hours) No Prerequisite: For students who have no previous knowledge of Modern standard Arabic. The aim is basic proficiency in the four language skills: reading, writing, speaking, and listening. Basic vocabulary, sentence structure, grammar and pronunciation in Modern Standard Arabic is introduced.

101 ELEMENTARY ARABIC II (Credit, 3 Hours) Prerequisite: Arabic 100. Extended vocabulary and grammar, as well as basic conversation are emphasized. students begin conversing, reading and writing in Arabic.

### ARCHITECTURE (ARCH)

104. STUDIO I (Credit, 3 Hours; Contact, 6 Hours). An introduction to basic design and composition and their application to architectural design. Studio exercises in two and three dimensions using various media.

105. STUDIO II (Credit, 3 Hours; Contact, 6 Hours). A continuation of ARCH 104. Prerequisite: ARCH 104.

110. ARCHITECTURE FOR NON MAJORS (Credit, 3 Hours). An introduction to architecture for non-majors interested in an overview of Architectural History and Theory. No credit toward graduation for ARCH majors.

111. INTRODUCTION TO ARCHITECTURE (Credit, 2 Hours; Contact, 4 Hours). An introduction to architectural design theory. Studio exercises in two and three dimensions. Prerequisites: None.

118. REPRESENTATION I (Credit, 2 Hours; Contact, 4 Hours). An introduction to the principles of orthographic, paraline and perspective drawing including descriptive geometry and shade and shadow.

119. REPRESENTATION II (Credit, 2 Hours; Contact, 4 Hours). An introduction to computer and physical modeling. The semester is equally divided between development of computer 3D modeling skills and physical model construction using the School's shop. Prerequisite: None.

121. INTRODUCTION TO COMPUTER APPLICATIONS (Credit, 2 Hours; Contact, 4 Hours). An introduction to the use of computers in the professional environment including: hardware, operating systems, word processing and page layout, presentation and spread sheet software. No credit toward graduation for ARCH majors.

204. STUDIO III (Credit, 5 Hours; Contact, 10 Hours). Basic architectural design emphasizing the application of basic design principles to architectural design. Studio problems focus on identification and manipulation of the elements of design, spatial organization, and understanding the role of context in design. Prerequisite: ARCH 105.

205. STUDIO IV (Credit, 5 Hours; Contact, 10 Hours). A continuation of ARCH 204. Prerequisite: ARCH 204.

210. HISTORY OF ARCHITECTURE I (Credit, 3 Hours). A survey of architecture from the ancient world through the Renaissance. Prerequisite: None.

211. HISTORY OF ARCHITECTURE II (Credit, 3 Hours). A survey of architecture from the Renaissance to the present. Prerequisite: ARCH 210.

212. INTRODUCTION TO CONSTRUCTION (Credit, 3 Hours; Contact 3 Hours). An introduction to the building process. A comprehensive course that surveys building materials and construction systems including raw material sources, selection criteria, and usage limitations. Lectures will be augmented with field trips, film presentations and attendance at designated industry seminars. Prerequisite: Second year status and concurrent enrollment in ARCH 204 or permission of the Instructor.

213. INTRODUCTION TO CONSTRUCTION DESIGN STUDIO (Credit, 3 Hours; Contract 3 Hours). An introductory studio course that interfaces with the prescriptive and procedur-

al theory for the materials and methods of construction covered in the previous course (ARCH 212). Interface with content from ARCH 212 shall be carried out through lectures, graphic exercises (drawn and written) and field trips. Prerequisite: Second year status, ARCH 212 and concurrent enrollment in ARCH 205 or permission of the Instructor.

218. GRAPHIC PRESENTATION I: (PHYSICAL MODELING TECHNIQUES) (Credit, 2 Hours). A continuation of ARCH 118 with emphasis on various physical modeling techniques.

219. GRAPHIC PRESENTATION II (Credit, 2 Hours; Contact, 4 Hours). Introduction to CADD drawing systems focusing on the use of AutoCAD software. The material covered will include: terminology and operating systems, drawing commands, organization of drawings, and production of typical architectural drawings. Prerequisite: None.

266. ARCHITECTURE PRACTICUM (Credit 1 Hour). A supervised 240 clock hour field experience. Students should enroll in this course the semester they plan to complete their field experience clock hour requirement. This course may be taken concurrently with ARCH 204. Graded Pass/ Fail.

297. MATRICULATION SEMINAR (Credit 1 Hour, Contact, 2 Hours). Preparation for the School's Matriculation Exam, including independent creative project, electronic and traditional portfolio, video of oral performance, and writing sample. Prerequisite: Satisfactory completion or concurrent enrollment in all courses required for matriculation to the third year. Graded pass to fail.

304. STUDIO V (Credit, 5 Hours; Contact, 10 Hours). A series of projects involving the design of small to medium size buildings in urban settings. Emphasis on context/site analysis and planning issues as they relate to architectural solutions, and integration of construction materials and methods in design problem solving. Prerequisite: ARCH 205.

305. STUDIO VI (Credit, 5 Hours; Contact, 10 Hours). A continuation of ARCH 304. Prerequisite: ARCH 304.

310. THEORY OF ARCHITECTURE (Credit, 3 Hours). A study of the evolution of architectural theory. Prerequisite: ARCH 210, ARCH 211.

311. HISTORY OF CITY PLANNING (Credit, 3 Hours). A study of the evolution of cities and city planning from early settlements to the present.

312 . 313 . CONSTRUCTION DESIGN STUDIO I & II (Credit, 2 Hours; Contact, 4 Hours). A comprehensive two semester examination of building materials and construction systems for wood, steel, masonry and concrete structures. Studio exercises augmented with selected case studies and field trips to construction sites. Prerequisite: Third status and concurrent enrollment in ARCH 304 for 312 and 305 for 313 or permission of the Instructor.

316. STRUCTURES I (Credit, 3 Hours). The study of static and strength of materials. Concepts studied include graphic and mathematical analysis of trusses and structural frames, properties of sections, shear and moment diagrams, stress-strain relationships and deflection. Prerequisite: MATH 135, MATH 140, PHYS 141, PHYS 142.

317. STRUCTURES II (Credit, 3 Hours). Study of stress determination of structures, general principles involved in the design of wood and steel structural systems. Prerequisite: ARCH 316.

318. 319. ENVIRONMENTAL CONTROL SYSTEMS (Credit, 3 Hours each). A two semester sequence focusing on the general design principles of heating, air-conditioning, ventilation, electrical power and lighting, plumbing, building sanitation, fire protection, vertical transportation, and acoustics. Prerequisite: ARCH 205.

320. COMPUTER APPLICATIONS I (Credit 2 Hours; Contact 4 Hours). Three dimensional modeling using various software packages. Prerequisite: ARCH 219.

321. COMPUTER APPLICATIONS II (Credit 2 Hours; Contact 4 Hours). Introduction to multimedia and advanced presentation processes. Prerequisite: ARCH 320.

329. ARCHITECTURAL PROGRAMMING (Credit, 3 Hours). The process of preparing programs for complex building types. Students will prepare a complex building program as the outcome of this course.

330. BUILDING ANALYSIS (Credit, 3 Hours each semester, 6 contact hours per week). This research oriented studio course examines thoroughly the complex organizational strategies of architecturally distinguished buildings produced by significant architects. Exploration of analysis includes: regional, cultural, and historical influences; location, site, and contextual relationships, figure/ground, parti diagrams, circulation sequence, hierarchy in plan-section-façade, form-mass-volume, transformation of form-volume, structural systems, etc. Analysis is researched and presented through graphic and model format. Selection of the projects for analysis may characterize the importance of building within the context of history, contributions to architectural education, function, style, form, and availability of information. Prerequisites: ARCH 205.

400. COOPERATIVE EDUCATION (Credit, 3 Hours). Beginning with the summer following the second year, a student may elect to take their field experience requirement for credit. A maximum of three hours of cooperative education credit may be used to satisfy elective requirements; may be repeated. Prerequisite or Co-requisite: ARCH 266.

404. STUDIO VII (Credit, 5 Hours; Contact, 10 Hours). A series of projects involving the design of medium to large buildings in urban settings. Emphasis on urban/community planning issues as they relate to architectural solutions, and integration of all building systems in design problem solving. Prerequisite: ARCH 305.

405. STUDIO VIII (Credit, 5 Hours; Contact, 10 Hours). A continuation of ARCH 404. Prerequisite: ARCH 404.

410. HOUSING (Credit, 3 Hours). A broad study of human settlements. Topics covered include: historical antecedents, contemporary

developments in housing practice; and investigations of social, economic, and political conditions as they relate to housing policy. Prerequisite: ARCH 205.

411. HUMAN BEHAVIOR IN DESIGN (Credit, 3 Hours). An overview of the role of the behavioral sciences in architectural design and programming. Prerequisite: ARCH 205.

412. CONSTRUCTION STUDIO III (Credit, 3 Hours; Contact, 6 Hours). A study of working drawings and specifications as instruments of professional service including: organization, development, production and coordination. Focuses on the use of CADD systems for production. Prerequisite: ARCH 313.

413. CONSTRUCTION MANAGEMENT (Credit, 3 Hours). Lectures and exercises leading to an understanding of construction management principles including: the use of CPM, construction documentation and record keeping procedures. Prerequisite: ARCH 205.

414. PRINCIPLES OF TOWN PLANNING (Credit, 3 Hours). The primary objective of this course is twofold. The first is to acquaint the student with contemporary theories of urban design and the supporting methodology. The second is to enable the student to understand the relationship between architecture and city planning, using urban design as an integrative discipline. Prerequisite: ARCH 205.

416. STRUCTURES III (Credit, 3 Hours). Introduction to the general principles involved in the design of reinforced concrete. Prerequisite: ARCH 317.

418. SITE PLANNING AND LANDSCAPE ARCHITECTURE (Credit, 3 Hours; Contact, 6 Hours). Studio course focusing on the principles of site planning including: aesthetics, community planning, earth shaping, utilities and storm water management. Prerequisite: ARCH 305 or permission of the instructor.

419. **ADVANCED REPRESENTATION** (Credit, 3 Hours; Contact, 6 Hours). Advanced delineation and presentation techniques using manual and digital approaches. Prerequisite: ARCH 305 or permission of the instructor.
426. **BUILDING ECONOMICS AND DESIGN COST CONTROL** (Credit, 3 hours; Contact 6 Hours). Principles of economics as they apply to the design phases of building projects; factors affecting the cost of buildings, including first cost, operating costs; and ultimate costs, design cost analysis and control, cost models, and estimates of probable construction costs. Prerequisite: ARCH 305 or permission of the instructor.
427. **PROJECT FEASIBILITY ANALYSIS** (Credit, 3 hours; Contact 6 Hours). Lectures, discussions, and projects toward understanding of analytical methods for determining project feasibility, including location, site, and design cost, and operating cost analysis. Prerequisite: ARCH 305 or permission of the instructor.
428. **INTERIOR DESIGN** (Credit, 3 hours; Contact 6 Hours). Studio course focusing on developing advanced knowledge of the planning process for building interiors. Prerequisite: ARCH 205 or permission of the instructor.
430. **ARCHITECTURAL RESEARCH** (Credit, 3 Hours). The primary objective of this course is to introduce students to various research methods in architecture (survey techniques, fieldwork approaches, data collection and analysis). Prerequisite: ARCH 305.
432. **ADVANCED STRUCTURES** (Credit, 3 hours; Contact 6 Hours). A qualitative and quantitative analysis of indeterminate structures. Course topics include analysis of indeterminate beams and frames, simple plate and shell construction, arches and cables, wind and seismic loads, model analysis, cantilevers and membrane systems. Prerequisites: ARCH 416. Contributions from outside lecturers.
433. **BUILDING SYSTEMS CAPSTONE**. (Credit, 2 Hours; Contact, 4 Hours). Capstone course in building systems taken concurrently with ARCH 497. The course consists of the comprehensive development of the building systems component of the student's thesis. Co-Requisite: ARCH 497.
442. **CONSTRUCTION LAW** (Credit, 3 hours; Contact 6 Hours). Lectures, case studies, and outside reading toward developing an understanding of relevant legal institutions, core legal concepts, and standards of professional care which must be exercised by the design professional during the project delivery process. Prerequisite: ARCH 305 or permission of the instructor.
450. **INDEPENDENT STUDY** (Credit, 3 Hours). Independent work undertaken with an assigned faculty member. Project must be approved by the student's faculty advisor and Dean.
461. **BUILDING LAW, CODES AND ZONING** (Credit, 3 hours; Contact 6 Hours). Lectures, seminars and exercises toward cognizance of the effects of various building codes, restrictions, zoning regulations and legal constraints on built-form. Prerequisite: ARCH 305 or permission of the instructor.
- 462, 463. **PROFESSIONAL PRACTICE I & II** (Credit, 3 hours; Contact 6 Hours). A series of courses that integrates the theoretical study of professional practice with required field experiences. Topics covered are based on requirements for the Intern Development Program and materials included in the A.I.A. Manual of Professional Practice.
464. **PROFESSIONAL LICENSING EXAM SEMINAR** (Credit, 3 hours; Contact 6 Hours). Lectures, discussions, exercises, and simulated examinations intended to familiarize the student with the various components of the Architectural Registration Exam. Emphasis on developing appropriate test-taking skills, awareness of the structure and content of the exam, and familiarization with available examination study guides and I.D.P. requirements. Prerequisite: ARCH 462, 463.
496. **INDEPENDENT THESIS I** (Credit, 2 Hours). First part of the thesis, where the project proposal is developed. Prerequisite: ARCH 405.
497. **INDEPENDENT THESIS II** (Credit 6 Hours; Contact, 12 Hours). Second part of the thesis where the building/ urban design project is developed. Prerequisite: ARCH 496.

498. STUDIO X (Credit 6 Hours; Contact, 10 Hours). Capstone studio course. Students work independently and in groups on a single comprehensive project. Prerequisite: ARCH 405.

### BEHAVIORAL STUDIES (BHVS)

220. EDUCATIONAL PSYCHOLOGY (Credit, 3 hours). This course is an introduction to cognitive, behavioral, developmental, humanistic, motivational, and learning psychological theories related to teacher preparation. The overall objectives of the course are to help preservice teachers demonstrate an understanding of: 1) the application of psychological principles to teaching within a climate of diversity; 2) how to develop skills in maintaining classroom management; 3) the cognitive discovery view of learning; 4) the humanistic view of learning; 5) motivational and learning theories; and 6) assessment procedures and strategies. Contents are aligned with state and national standards, and the Unit's Conceptual Framework.

230. CHILD PSYCHOLOGY (Credit, 3 hours). This course is designed to provide an in-depth study of children and their development. The overall objectives of the course are to: 1) provide an understanding of the beginning of life—prenatal development and birth and the newborn child; 2) provide an understanding of the physical child—physical development and perceptual development; 3) provide an understanding of the thinking child—cognitive development I (structure and process), cognitive development II (Individual differences in cognitive abilities and the development of language); 4) provide an understanding of the social child—personality development (alternatives views, the concept of self in children, the development of social relationships, and thinking about relationships and the development of social cognition); and 5) provide an understanding of the whole child—the ecology of development (the child within the family system, beyond the family and the impact of the broader culture, and atypical development). Contents are aligned with state and national standards, and the Unit's Conceptual Framework.

240. ADOLESCENT PSYCHOLOGY (Credit, 3 hours). This course is designed to provide an in-depth study of adolescents and their development. It prepares teachers to understand the nature of adolescent development, biological and cognitive development (biological foundations, puberty, health and cognitive development), the contexts of adolescent development (families, peers, schools, culture), social, emotional, and personality development (the self and identity, gender, sexuality, moral development, values, religion, achievement, careers, and work), and adolescent problems. Contents are aligned with state and national standards, and the Unit's Conceptual Framework.

### BIOLOGICAL SCIENCES (BIOL)

All biology courses numbered above the level of 199 have prerequisites BIOL 104, 105, 106, and 107 or 108 and 109. Specific prerequisites are listed with each course.

104. GENERAL BIOLOGY (Credit, 3 hours). Basic biological concepts as they relate to man and his surroundings. Major emphasis on the nature of science, evolution, the cell, heredity, reproduction, growth, and development.

105. GENERAL BIOLOGY (Credit, 3 hours). Basic biological concepts as they relate to man and his surroundings. Major emphasis on how living things maintain themselves, man's environment, and the behavior of living things. BIOL 104 is a prerequisite.

106. GENERAL BIOLOGY LABORATORY (Credit, 1 hour) (Lab, 2 hours). Laboratory techniques and experiments dealing with basic principles of biology. Corequisite: BIOL 104.

107. GENERAL BIOLOGY LABORATORY (Credit, 1 hour) (Lab, 2 hours). Laboratory techniques and experiments dealing with basic principles of biology. Corequisite: BIOL 105; Prerequisites: BIOL 104, BIOL 106.

108. GENERAL BIOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). Basic concepts in biology regarding the specific structural and functional relationships of plants and animals applicable to biology majors.

109. GENERAL BIOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). Basic concepts in biology regarding the specific structural and functional relationships of plants and animals applicable to biology majors. Prerequisite: BIOL 108

201. GENERAL ZOOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). Course designed to acquaint prospective majors with a general overview of zoological principles and serves as an introduction to the field of zoology. Prerequisites: BIOL 108, BIOL 109.

207. INTRODUCTION TO MARINE SCIENCES I (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A one-semester introductory course designed to introduce students to marine and wetlands environments. Topics include the physical, chemical, geological, and life processes affecting world oceans but with emphasis on how they influence Louisiana's coastal environments. Team taught. This course is not a prerequisite for BIOL 208.

208. INTRODUCTION TO MARINE SCIENCES II (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A one-semester course designed to introduce students to marine biology utilizing a field approach. Topics covered are the effects of physical factors of the ocean on living organisms in the ocean and Louisiana coastal environments, food resources of the ocean estuaries, and fish production and waste disposal in the coastal ocean.

209. GENERAL BOTANY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A survey of the plant kingdom emphasizing morphology, physiology, taxonomy, and economic importance of plants. Prerequisites: BIOL 108, BIOL 109.

210. MORPHOLOGY OF NON-VASCULAR PLANTS (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A study of the general morphology, life histories, and the ecologic and economic interrelationship of the major groups of non-vascular plants. Prerequisite: BIOL 209.

223. ANATOMY AND PHYSIOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). An introductory course in the study of gross structures and the physiological processes and activities of the ear, eye, the respiratory system, digestive system, nervous system, muscular system, cardiovascular sys-

tem, blood and lymph, the skin, urinary system, endocrinology, and skeletal system. Designed for students in speech pathology, recreation therapy, health and physical education, and education of the hearing impaired. Prerequisites: BIOL 104, 106, 105, 107.

230. PRINCIPLES OF MICROBIOLOGY (Credit, 3 hours). Fundamental study of microorganisms and their relationship to food, sanitation, public health, and disease. The cultivation, microscopic examination, and biochemical activity of microorganisms and basic laboratory techniques applicable to microbiology, medical technology, medicine, and industry are also studied. Prerequisite: CHEM 128 and 129, BIOL 108 and 109.

231. PRINCIPLES OF MICROBIOLOGY LABORATORY (Credit, 1; Lab, 2 hours). Laboratory study of microorganisms involving the cultivation, microscopic and biochemical examination of microorganisms. Corequisite: BIOL 230.

232. GENERAL MICROBIOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A comprehensive study of the cultivation, microscopy, and the biochemical activities of microorganisms in addition to an introduction to the physiological study of the bacterial cell. Prerequisites: CHEM 132, 133, 112, and 113, BIOL 108 and 109.

238. HUMAN ANATOMY AND PHYSIOLOGY I (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A course devoted to a study of gross anatomy of various systems of the body and the presentation of concepts, principles, and mechanisms associated with maintenance of homeostasis. The anatomy and physiology of the following systems are discussed: integumentary system; skeletal system and joints; muscular system; nervous system and special senses; and the endocrine system. This course is designed for students majoring in nursing education, allied health sciences, and nutrition. Prerequisites: CHEM 128/108 and CHEM 129/109, CHEM 132/112 and CHEM 133/113, or equivalent, BIOL 108 and 109.

239. HUMAN ANATOMY AND PHYSIOLOGY II (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A course devoted to a study of gross anatomy of various systems of the body and the presentation of concepts, principles, and mechanisms associated with maintenance of homeostasis. The

anatomy and physiology of the following systems are discussed: blood; cardiovascular system; lymphatic system; respiratory system; urinary system; water, electrolyte, and acid-base balance; reproductive system; and the digestive system. This course is designed for students majoring in nursing education, allied health sciences, and nutrition. Prerequisites: CHEM 123/108 and CHEM 129/109, CHEM 132/112 and CHEM 133/113, or equivalent; BIOL 238.

240. INVERTEBRATE ZOOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A study of morphology, physiology, ecology, taxonomy, and phylogenetic relationships of representative types of invertebrates. Prerequisites: BIOL 108 and 109.

241. COMPARATIVE ANATOMY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A comparative study of the phylum Chordata, including the development and structure of organ systems. Prerequisites: BIOL 108 and 109.

242. HUMAN ANATOMY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). An introductory course in a study of gross anatomy of the various systems of the body, including the digestive system, respiratory system, urinary system, nervous system, muscular system, skeletal system, cardiovascular system, blood and lymph, skin, eye, and ear. Designed for students majoring in nursing education, medical technology, physical therapy, occupational therapy, and nutrition.

243. HUMAN PHYSIOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). Course designed to present the concepts, principles, and mechanisms associated with the maintenance of the life state, particularly in humans. Prerequisites: CHEM 108/109 and 128/129; or 112, 113, 132 and 133 or equivalent; BIOL 108 and 109.

300. PRINCIPLES OF RESEARCH (Credit, 2 hours). Course designed to familiarize the beginning researcher with general research concepts and with the methods and procedures of research in the biological sciences. Emphasis on activities designed to enable biology majors to understand and critically evaluate the research of others and to develop the skills necessary to design, conduct, and communicate the results of their own experiments. Prerequisites: BIOL 108 and 109.

305. GENERAL PHYSIOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A course designated to facilitate the study of the operation of the physiological concepts and mechanisms associated with the maintenance of the "life states." A broad array of life forms used to illustrate the cited concepts and mechanisms. Prerequisites: CHEM 112, 113, 132, and 133; BIOL 108 and 109.

310. MORPHOLOGY OF VASCULAR PLANTS (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). The study of the general morphology, life histories, and the ecologic and economic interrelationship of the major groups of vascular plants. Prerequisites: BIOL 209.

341. VERTEBRATE HISTOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). Lecture and laboratory work concerning the microscopic structure of vertebrate tissues and organs. Prerequisites: BIOL 108 and 109.

342. VERTEBRATE EMBRYOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A study of the developmental morphology and physiology of the main classes of vertebrates with emphasis on the basic concepts, patterns, and mechanics of morphogenesis. Prerequisite: BIOL 108, BIOL 109.

343. INTRODUCTORY PARASITOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). Consideration of the parasitic effects, identification, life cycles, and physiology of protozoan and helminth parasites of vertebrates. Basic biological interactions between the hosts and the parasites also are studied. Prerequisites: BIOL 108, BIOL 109.

350. GENETICS (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). An introduction to the principles of inheritance. Major topics covered are the chromosomal basis of inheritance, Mendelian genetics, and molecular genetics. Prerequisites: CHEM 112, 113, 132, and 133; BIOL 108, BIOL 109.

401. INTRODUCTION TO ELECTRON MICROSCOPY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). Course designed to explore basic principles governing the operation and function of electron microscopes. Emphasis is placed on the preparation of biological material for use in transmission and scanning electron microscopes.

Prerequisites: CHEM 112, 113, 132, and 133; BIOL 108, BIOL 109.

402. CELL AND MOLECULAR BIOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). Course designed to introduce and stimulate interest in the concepts and techniques of cell and molecular biology. Lectures focus attention on the biochemistry and the molecular organization of cells and the application of molecular genetic principles to all areas of cell biology. Laboratory exercises focus on achieving an enhanced understanding of topics associated with protein biochemistry (protein structure, function, and isolation), detection and molecular basis of disease, localization of enzymes in plant and animal cells, examination of properties of cell-surface receptors, organization and structure of prokaryotic and eukaryotic genomes, and function and regulation. Prerequisites: BIOL 232, CHEM 230, 231.

403. SEMINAR (Credit, 1 hour) Oral and written presentations on approved topics. Prerequisites: Junior Standing.

404. ECOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A survey of the living and non-living components of the environments, with a specific emphasis on man and his position (past, present, and future) in the biosphere and the Earth. Course to include subject matter related to the individual and the environment, populations, social interactions, community organization, distribution of communities, and ecosystems. Laboratory will consist of learning techniques used for measuring ecological parameters, e.g., temperature, dissolved oxygen, pH, water hardness, nitrates, etc. Static bioassays conducted to test the effects of selected chemicals on animals and plants.

409. INTRODUCTION TO BIostatISTICS (Credit, 3 hours). A course designed to introduce students to the usefulness of statistical thinking and statistical application in the solution of problems in biology and the health-related sciences. Emphasis is on the fundamental concepts of descriptive and inferential statistics. Prerequisite: MATH 140 or the equivalent.

410. MYCOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). Course designed to introduce students to the major groups of fungi. Emphasis on the importance of fungi as tools in research. The beneficial and harmful activities of fungi in general are stressed. Prerequisite: BIOL 232.

411. PLANT PATHOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A study of organisms that cause disease in plants. Emphasis on the identification, incidence, and severity of fungi that cause disease as well as upon control measures. Kinds of diseases and varied host-parasite relationships also are considered. Prerequisites: BIOL 209; CHEM 132, 133, 112, and 113.

412. PLANT PHYSIOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). A study of physiological functions with emphasis on absorption and translocation, water relation, mineral nutrition, metabolism and the role of plant regulators and hormones in the control of growth. Prerequisites: BIOL 209, CHEM 132, 133, 112 and 113.

430. PATHOGENIC MICROBIOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). The physiological and immunological characteristics of microorganisms producing disease primarily in humans, emphasizing host-parasite relationships, their cultivation, and the identification and mode of pathogenicity of these microorganisms. Laboratory experiments introduce techniques used in identification of pathogenic bacteria. Prerequisite: BIOL 232.

432. IMMUNOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). An introduction to the fundamentals of immunology including immunity, serology, immunochemistry, and immunobiology. Prerequisites: BIOL 232, CHEM 230, 231, 220, and 221.

433. MICROBIAL PHYSIOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). The principles of functional activities and intermediary metabolism of microbes. A study of microbial growth and the methods used to measure the activity. Topics include cell extract prepara-

tion, enzyme activity, and determination of metabolic products and microbiologic assay. Prerequisites: BIOL 232, CHEM 230, 231, 220, and 221.

434. APPLIED MICROBIOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). Course covers the role of microorganisms in soil, water, food, industrial and public health microbiology. Prerequisites: BIOL 232, CHEM 230, 231, 220, and 221.

436. BIOLOGICAL RESEARCH I (Credit, 2 hours). Research supervised by members of the staff. Prerequisite: BIOL 300 and permission of the instructor.

437. BIOLOGICAL RESEARCH II (Credit, 2 hours). Research supervised by members of the staff. Prerequisite: BIOL 436 and permission of the instructor.

442. ANIMAL PHYSIOLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). Designed to introduce the student to the mechanisms associated with homeostasis, neural control, hormonal control, muscle function, circulation, gas exchange, regulation of extracellular water and electrolytes, nutrition, and reproduction in animals. Prerequisites: CHEM 230, 231, 220, and 221; BIOL 108, 109.

450. MICROBIAL GENETICS (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). Course designed to introduce students to the molecular structure and function of prokaryotic cells, genetic mapping, and mechanisms of mutation, conjugation, transformation, transduction, and genetic recombination. Laboratory exercises involve the study of the properties and structures of DNA, the analysis of a genome segment, polymerase chain reaction, DNA sequencing, DNA fingerprinting, and the cloning of phage DNA into *E. coli* cells. Prerequisites: BIOL 232, CHEM 340, and 342.

452. SPECIAL TOPICS IN BIOMEDICAL SCIENCES (Credit, 3 hours). Topics include advances in biomedical sciences relating to human health and diseases with emphasis on nutritional and genetic disorders, diabetes, Alzheimer's disease, AIDS, and cancer. Laboratory demonstrations of methods presented. Prerequisite: Permission of instructor.

453. GENERAL VIROLOGY (Credit, 4 hours) (Lec., 3 hours; Lab, 3 hours). Course involves the study of the nature, multiplication, genetics, immunology, pathogenesis, and control of virus infections. Discussions of the most important human viral pathogens and the use of viruses as model systems and vectors. Prerequisites: CHEM 340 and 342; BIOL 402.

## LUMCON Courses

### (Undergraduate Credit Only)

Marine biology courses are available to undergraduate students on the Southern University, Baton Rouge, campus through the Louisiana Universities Marine Consortium (LUMCON). Course titles and availability may be obtained from the Department of Biological Sciences. These courses are taught at the Louisiana University Marine Consortium coastal laboratory. Prerequisite: Permission of instructor.

## CHEMISTRY (CHEM)

108/109. GENERAL CHEMISTRY LABORATORY (Credit, 1 hour each) (Lab, 2 hours). Fundamental, experimental techniques used in general, organic, and biochemistry (general chemistry, CHEM 108; organic and biochemistry, CHEM 109). These laboratories accompany CHEM 128 and 129, respectively. CHEM 108 is a prerequisite for CHEM 109; CHEM 128 is a prerequisite or a co-requisite for CHEM 108, and CHEM 129 is a prerequisite or a co-requisite for CHEM 109.

110/111. GENERAL CHEMISTRY LABORATORY (Credit, 1 hour each) (Lab, 2 hours). Laboratory techniques and experiments dealing with basic laws and principles of chemistry as well as physical and chemical properties of matter for non-science majors. These courses accompany CHEM 130 and 131, respectively. CHEM 110 is a prerequisite for CHEM 111; CHEM 130 is a prerequisite or a co-requisite for CHEM 110, and CHEM 131 is a prerequisite or a co-requisite for CHEM 111.

112. GENERAL CHEMISTRY LABORATORY (Credit, 1 hour) (Lab, 3 hours). Laboratory techniques and experiments dealing with fundamental principles and laws of chemistry as well as with physical properties and chemical reactions with

emphasis on experiments of a quantitative nature. Prerequisite or co-requisite: CHEM 132.

113. GENERAL CHEMISTRY LABORATORY (Credit, 1 hour) (Lab, 3 hours). CHEM 113 is the laboratory course that accompanies CHEM 133. The course involves experiments in solution kinetics, chemical equilibrium, acid-base chemistry, heterogeneous equilibria, and electrochemistry. The student is exposed to the use of instrumentation used in pH measurements and spectrophotometry. The properties of anions and cations are also addressed.

128/129. GENERAL CHEMISTRY (Credit, 3 hours each) (Lec., 3 hours; Rec., 1 hour). Courses designed for students planning careers in nursing, nutrition, dietetics, or other health-care professions. CHEM 128 stresses the fundamentals of general chemistry. The fundamentals of organic and biochemistry are covered in CHEM 129. CHEM 128 is a prerequisite for CHEM 129.

130/131. GENERAL CHEMISTRY (Credit, 3 hours each). Courses for non-science majors which stress the essential principles of chemistry with emphasis on the importance of chemistry to a modern society. CHEM 130 is a prerequisite for CHEM 131.

132. GENERAL CHEMISTRY (Credit, 3 hours), (Lec., 3 hours; Rec., 1 hour). Fundamental laws and principles of chemistry with emphasis on essential concepts, particularly the mole concept, as well as stoichiometry, atomic structure, and periodicity. Course intended for science and engineering majors. Prerequisites: High school chemistry and algebra, MATH 135 or above.

133. GENERAL CHEMISTRY (Credit, 3 hours) (Lec., 3 hours; Rec., 1 hour). A continuation of CHEM 132. Course covers a study of solutions, properties of acids, bases, and salts, various equilibria including chemical equilibrium, ionic equilibria, and solubility equilibria. Kinetics, thermodynamics, and electrochemistry are introduced. Considerable emphasis on calculations. Prerequisite: CHEM 132.

202/204. INDUSTRIAL TECHNIQUES I-II (Credit, CHEM 202, 2 hours; CHEM 204, 3 hours). Courses designed to serve as avenues of credit for those students majoring in chemistry who have obtained industrial or university research experience. Exposure should be either with an industrial firm or through a funded undergraduate research program at an ACS-approved department of chemistry in universities other than Southern University. Final grade is granted upon submission of a written report and an oral seminar report to the students and faculty of the Department of Chemistry of Southern University. Prerequisite: Permission of the department.

210. ORGANIC CHEMISTRY LABORATORY (Credit, 1 hour) (Lab, 3 hours). A one-semester laboratory course designed to accompany CHEM 250. Course entails the synthesis and properties of representative classes of organic compounds. Prerequisites: CHEM 131 and 111 or CHEM 133 and 113.

212. BIOCHEMISTRY LABORATORY (Credit, 1 hour) (Lab, 3 hours). Basic laboratory experiments with carbohydrates, proteins, lipids, and enzymes. Applications of biochemical techniques are made as they apply to foods and physiological functions. Intended for students in home economics and agriculture. Prerequisites: CHEM 250 and 210. Co-requisite or prerequisite: CHEM 234.

220/221. GENERAL ORGANIC CHEMISTRY LABORATORY (Credit, CHEM 220, 1 hour; Lab, 3 hours) (Credit, CHEM 221, 2 hours; Lab, 6 hours). Laboratory techniques that deal with methods of purification, synthesis, and properties of carbon compounds. CHEM 220 is designed to accompany CHEM 230, while CHEM 221 is designed to accompany CHEM 231. Prerequisites for CHEM 220 are CHEM 133 and CHEM 113; CHEM 230 is a co-requisite or prerequisite for CHEM 220; CHEM 230 and CHEM 220 are prerequisites for CHEM 221; CHEM 231 is a co-requisite or prerequisite for CHEM 221.

230/231. ORGANIC CHEMISTRY LECTURE (Credit, 3 hours each) (Lec., 3 hours). A comprehensive presentation of the fundamental principles and basic theories of the chemistry of carbon compounds. Required for chemistry majors. Prerequisites: CHEM 133 and 113; CHEM 230 is a prerequisite for CHEM 231.

234. **BIOCHEMISTRY** (Credit, 3 hours) A one-semester course dealing with the chemistry and physiological functions of carbohydrates, lipids, proteins, nucleic acids, and enzymes. Designed for students studying home economics and agriculture. Prerequisite: CHEM 250.

242. **QUANTITATIVE ANALYSIS** (Credit, 3 hours). Designed for chemistry majors, includes theories, principles, and practices of gravimetric and volumetric analyses. Considerable emphasis is placed on the treatment of analytical data, acid-base equilibria, solubility product, and redox equilibria. Instrumental analysis is introduced. Prerequisites: CHEM 112, 113, 132, and 133.

243. **QUANTITATIVE ANALYSIS LABORATORY** (Credit, 1 hour) (Lab, 4 hours). Designed for chemistry majors. Consists of gravimetric and volumetric analyses and applications of acid-base equilibria, solubility product, and redox equilibria in the quantitation of selected substances. Some of the experiments make use of small instruments. Prerequisites: CHEM 112, 113, 132, and 133. Prerequisite or Co-requisite: CHEM 242.

250. **ORGANIC CHEMISTRY** (Credit, 3 hours). A one-semester course dealing with the fundamental principles and reactions of the aliphatic and aromatic series of carbon compounds. Recommended for home economics and agriculture majors. Prerequisite: CHEM 131 or 133.

312/313. **PHYSICAL CHEMISTRY** (Credit, 3 hours each). The study of the physical properties and structure of matter, along with the laws of chemical interaction and the theories upon which these laws are based. Energy changes accompanying chemical and physical processes and their usefulness in predicting chemical change are thoroughly discussed. Quantum mechanics is introduced. Prerequisites: CHEM 112, 113, 132, 133, 220, 221, 230, and 231; MATH 264, 265; CHEM 312 is a prerequisite for CHEM 313.

314/315. **PHYSICAL CHEMISTRY LABORATORY** (Credit, 1 hour each) (Lab, 3 hours). Experiments designed to study some of the physi-

cal properties and the structure of matter and to demonstrate laws of chemical interaction and the theories upon which these laws are based. Experiments in thermodynamics, kinetics, surface chemistry, and electrochemistry are included. Prerequisites: CHEM 112, 113, 132, 133, 242, 243, 220, 221, 230, and 231; MATH 264, 265; CHEM 314 is a prerequisite for CHEM 315; CHEM 312 is a prerequisite or co-requisite for CHEM 314, and CHEM 313 is a prerequisite or co-requisite for CHEM 315.

340/341. **GENERAL BIOCHEMISTRY** (Credit, 3 hours each) (Lec., 3 hours). Courses emphasize the chemistry, biochemistry, and biological functions of the major classes of biological compounds: carbohydrates, lipids, proteins, enzymes, nucleic acids, vitamins, and hormones. Prerequisites: CHEM 112, 113, 132, 133, 242, 243, 220, 221, 230, and 231; CHEM 340 is a prerequisite for CHEM 341.

342/343. **GENERAL BIOCHEMISTRY LABORATORY** (Credit, 1 hour each) (Lab, 3 hours). Consists of experiments that are designed to demonstrate or explain the chemistry, biochemistry, and biological functions of the major classes of biological compounds: carbohydrates, lipids, proteins, enzymes, nucleic acids, vitamins, and hormones. Prerequisites: CHEM 112, 113, 132, 133, 242, 243, 220, 221, 230, and 231; CHEM 342 is a prerequisite for CHEM 343; CHEM 340 is a prerequisite or a co-requisite for CHEM 342, and CHEM 341 is a prerequisite or a co-requisite for CHEM 343.

422/423. **CHEMICAL RESEARCH** (Credit, 2 hours each). Courses designed to give undergraduate students training in research and in the art of communicating their research results in written and verbal form. Students receive experience in identifying research problems, conducting literature searches, formulating research protocol, performing independent research, writing research papers, and making formal presentations. Prerequisites: CHEM 132, 112, 133, 113, 230, 220, 231, and 221. Co-requisites or prerequisites: CHEM 312 and 314.

425. **INTERMEDIATE ORGANIC CHEMISTRY** (Credit, 3 hours) Fundamental principles and theories of organic chemistry as exemplified by different classes of carbon compounds. For advanced undergraduate and beginning graduate

students. Prerequisites: CHEM 230 and 231 or equivalent, and permission of instructor.

436. BIOPHYSICAL CHEMISTRY (Credit, 3 hours). A semi-quantitative survey of physical properties of macromolecules. Particular emphasis is focused on methods and techniques used in the study of proteins and nucleic acids. Prerequisites: CHEM 312 and 340.

437. INTERMEDIARY METABOLISM (Credit, 3 hours). A study of metabolic pathways, their regulation, interactions, and relationships. Prerequisite: CHEM 341.

438. ENVIRONMENTAL CHEMISTRY (Credit, 3 hours). Course designed for those persons who desire a basic understanding of the problems of air, water, and land pollution and chemical approaches to the solutions of these problems. Prerequisite: CHEM 112, 113, 132, 133, 220, 221, 230, and 231.

439. SPECIAL TOPICS IN BIOCHEMISTRY (Credit, 3 hours). Course deals with current topics of interest in the biochemical area. Prerequisite: CHEM 341.

440. INORGANIC CHEMISTRY LABORATORY (Credit, 2 hours) (Lab, 6 hours). Preparation and characterization of inorganic compounds. Prerequisites: CHEM 313 and 315.

443. INORGANIC CHEMISTRY (Credit, 3 hours) Systematic study of the representative groups of elements, transition metals, lanthanides, actinides, coordination compounds, and ligand field theory. Prerequisite: CHEM 313.

450. INSTRUMENTAL ANALYSIS (Credit, 3 hours) (Lec., 3 hours; Lab, 4 hours). Course deals with the principles and applications of major instruments to various types of analyses. Emphasis is placed on electroanalytical methods, various absorption methods (such as UV, IR, NMR, and x-ray), mass spectrometry, and chromatographic methods. Prerequisites: CHEM 242, 243, 221, 231, 313, and 315.

455. MICROCOMPUTERS IN CHEMISTRY (Credit: 3 hours) (Lec., 1 hour; Lab, 2 hours). Basic introduction to microcomputers. Emphasis is placed on the application of computers to per-

forming chemical calculations and writing research papers. The student is introduced to word processing, graphing, and spreadsheet software. Importing and exporting information between different programs is discussed. Programming in BASIC is introduced. Prerequisite: Permission of the department.

### CHINESE (CHIN)

100. INTRODUCTION TO CHINESE I (Credit 3 hours). Introduction to elementary structures in the Chinese language. Emphasis on listening comprehension, pronunciation, basic vocabulary, and grammar structures necessary for developing oral and written skills.

101. INTRODUCTION TO CHINESE II (Credit, 3 hours). Continuation of CHIN 100 with increased emphasis on reading and writing activities. Additional work on speaking and listening comprehension skills. Prerequisite: CHIN 100.

### CIVIL ENGINEERING (CIEN)

201. SURVEYING (Credit, 3 hours) (Lec., 2 hours; Lab, 3 hours). Fundamental surveying procedures and office computations; electronic distance measurements; computer solutions for traverse and land area problems; stadia measurements; topographic surveys, volumes and construction surveys. Prerequisite: MATH 264

224. STATICS (Credit 3 hours). Introduction to mechanics; resultant of forces in two and three dimensions; moments and couples; equations of equilibrium; introduction to structural analysis; friction; centroid; moment of inertia. Prerequisites: PHYS 221 and MATH 265.

299. COOPERATIVE EDUCATION (Credit, 3 hours). Beginning at the sophomore year, students may enroll in a work study program which permits them to alternate work and study periods by semesters. Course can fulfill one civil engineering elective requirement.

310. ENGINEERING ECONOMY (Credit, 3 hours). Economic principles and techniques used

in making decisions involving the acquisition and retirement of capital goods by government and industry; time value of money, computer solutions for rates of return and capital expenditures. Prerequisite: ECON 200 or ECON 205 and MATH 265.

311. COMPUTER AIDED DESIGN IN CIVIL ENGINEERING (Credit, 3 hours) Introduction to AutoCAD and the computerized approach to civil engineering design. Students will be exposed to using various software packages in the design of civil engineering systems. Prerequisite: ENGR 130.

321. FLUID MECHANICS (Credit, 3 hours). Properties of fluids; fluid statics; fluids in motion; Bernoulli equation; conservation of mass; energy equation; momentum equation; dimensional analysis and similitude; introduction to flow in pipes and open channels. Co-requisite: MEEN 225

323. WATER RESOURCES ENGINEERING (Credit, 3 hours, Lec., 2 hours; Lab., 3 hours). Flow in pipes and pipe networks; pumps; flow in open channels; dams and spillways; introduction to hydrology. Laboratory work. Prerequisite: CIEN 321

325. Introduction to Environmental Engineering & Science (Credit, 3 hours). Mass and energy transfer; environmental regulations; environmental chemistry; risk assessment; air and water quality; hazardous waste management. Prerequisite: CHEM 132

327. CONSTRUCTION MATERIALS LAB (Credit, 2 hours) (Lec., 1 hour; Lab, 3 hours). Mixed design of cement concrete and asphalt concrete, constituent (aggregate, cement and asphalt binders) mixture tests, and strength tests of steel, plastic and wood. Prerequisite: MEEN 227.

361. STRUCTURAL ANALYSIS (Credit, 3 hours). Structural stability, influence lines, determinateness, and other basic concepts, such as principles of superposition, principle of virtual work, deflection theories, methods of determining deflections, and analysis of determinate structures with prismatic members. Prerequisite: MEEN 227.

381. TRANSPORTATION ENGINEERING I (Credit, 3 hours). Development, planning, design, economics, operation characteristics, and governmental regulations of highway, rail, air, water, and pipeline transportation facilities and systems. Prerequisites: Junior standing and CIEN 201.

382. ADVANCED TRANSPORTATION ENGINEERING (Credit, 3 hours). Design principles of urban roads and highway systems; geometric design of intersection, interchanges and grade separations, and analysis of operational characteristics and controls; detailed solutions for design problems. Prerequisite: CIEN 381.

403. FOUNDATION ENGINEERING (Credit, 3 hours). Design and Analysis of structural foundations and retaining walls; detailed design of spread, continuous, combination, drilled-in, and mat concrete footings, of driven wood, steel, and concrete pilings, and of steel sheet piling. Prerequisite: CIEN 470.

421. WATER AND WASTEWATER ANALYSIS (Credit, 2 hours) (Lec., 2 hour; Lab, 3 hours). Chemical kinetics and equilibrium, acid-base chemistry, oxidation reduction reactions, precipitation, dissolution, and the application of the principles of gravimetric, volumetric, and colorimetric methods to the laboratory analysis of water and wastewater. Prerequisites: CIEN 325.

424. SOIL MECHANICS (Credit, 3 hours) (Lec., 2 hour; Lab, 3 hours). Fundamental treatment of the physical and mechanical properties of soils, stresses in a soil mass, stress-strain behavior, shear strength, consolidation, Earth pressure, and measurement of soil properties. Co-requisite: CIEN 321.

458. CONSTRUCTION ENGINEERING (credit, 3 hours). The course provides an integrated view of construction procedures, methods, practices etc. related to projects in civil & environmental engineering. Technical topics from areas of foundations, soils, building materials, pavements, sewers, hydraulic structures and infrastructures are incorporated. Prerequisite: Senior Standing.

461. WATER SUPPLY AND SEWERAGE (Credit, 3 hours). Qualitative requirement of water for domestic, fire, and industrial use, principles of collection, pumping, storage, and distribution of water for public, domestic, and industrial use, and collection of storm, sanitary, and combined wastewaters. Prerequisite: CIEN 323.
462. DESIGN OF WATER AND SEWAGE TREATMENT PLANTS (Credit, 3 hours). Design and operation of water and wastewater treatment systems including physical, chemical, and biological principles, and design of water and wastewater treatment plants. Prerequisites: CIEN 323 and 325.
463. AIR POLLUTION CONTROL (Credit, 3 hours). Sources and effects of air pollutants; air quality standards; introduction to the design of particulate emission control devices; introduction to air pollution meteorology and atmospheric dispersion modeling. Prerequisite: CIEN 325 or Departmental Consent.
468. INTRODUCTION OF DAM SAFETY AND SECURITY (Credit, 3 hours). Review of selected topics in hydraulics, hydrology, geology, and soil mechanics; an overview of dams and appurtenant works; elements and organization of an effective dam safety program; state legal requirements, and facility emergency preparedness. Prerequisite: CIEN 321.
469. STEEL DESIGN (Credit, 3 hours). Behavior and design of steel structural members in tension, compression, and flexure using the Load Resistance Factor Design (LRFD) specification with elastic analysis. Prerequisites: CIEN 327 and 361.
470. CONCRETE DESIGN (Credit, 3 hours). Design of concrete beams, slabs, and columns using Ultimate Strength Concept; introduction to rigid frame system design. Prerequisites: CIEN 327 and 361.
475. SOLID/HAZARDOUS WASTE MANAGEMENT (Credit, 3 hours). Generation, on-site storage, collection, transfer and transport, processing and recovery, and disposal of solid/hazardous wastes. Prerequisite: CIEN 325.
476. DESIGN OF HYDRAULIC STRUCTURES (Credit, 3 hours). Hydraulic and hydrologic considerations in the design of dams and appurtenant works, reservoirs, and open channels; safety and security of dams — evaluation and remedial measures. Prerequisite: CIEN 323.
478. INTRODUCTION TO CONSTRUCTION MANAGEMENT (Credit, 3 hours). Construction methods, equipment, and administration with particular emphasis on the influence of new developments in technology and construction management. Prerequisite: Senior standing in civil engineering.
480. SPECIAL TOPICS IN CIVIL ENGINEERING (Credit, 3 hours). Investigation of selected topics of current interest in the field of civil engineering. Prerequisite: Senior standing.
481. PAVEMENT DESIGN AND MANAGEMENT (Credit, 3 hours). Flexible and rigid pavement design procedures; subgrade, base and surfacing characteristics; loads, stresses in pavement systems; material characterization; pavement response models; pavement performance models; structural design systems; effects of natural forces; construction practice; and pavement management system. Prerequisite: CIEN 381.
482. SENIOR DESIGN I (Credit, 2 hours). Engineering concepts used to produce practical, efficient, and feasible solutions to civil engineering problems. Student design teams shall identify a real-life, open-ended problem in civil engineering and prepare a proposal that will include design constraints and concepts, methods, codes, requirements, and specifications. Consultation with practicing engineers and department faculty is required. Prerequisite: Senior standing.
483. SENIOR DESIGN II (Credit, 2 hours). Students will demonstrate ability to perform independent and creative work by successfully completing a major engineering design project. Group interaction and work with engineering practitioners. Prerequisite: Senior standing and CIEN 482.
485. RAILWAY ENGINEERING (Credit, 3 hours) This courses covers rail transportation sys-

tems, track geometry and right-of-way, track loading response, design, evaluation and maintenance. Prerequisite: CIEN 381

## COMPUTER SCIENCE (CMPS)

105. INTRODUCTION TO COMPUTER TECHNOLOGY (credit, 3 hours). The course endows knowledge of the capabilities, limitations, and implications of computer technology. It presents the fundamentals necessary within an ever changing need of technology and global society which include and not limited to: user interfaces, word processing, spreadsheets, and multimedia/presentation software.

190. PROGRAMMING TECHNIQUES AND ALGORITHM DEVELOPMENT I (Credit 3 Hours). This course is the first of a two-course sequence designed to provide the foundation for all computer science courses and for computing careers, two fundamental aspects of computer science are introduced: algorithms and programs. The skills and techniques learned will be required in all subsequent course work. CMPS 190 is a very programming-intensive course so students must allocate some time outside of class to completing programs. Topics include: semantics and syntax, data types and variables; assignment statement with arithmetic expressions; program structure; simple input and output; strings; Boolean expressions; transfer of control statements; arrays and functions. Prerequisite: None.

191. PROGRAMMING TECHNIQUES AND ALGORITHM DEVELOPMENT II (Credit, 3 Hours). The second course in the two-course sequence introduces Object Oriented Programming (OOP) concepts and techniques that will help the student to develop high quality software. OOPs languages implement abstract data types, provide an organization that permits reuse of programmed algorithms, and protect against inadvertent misuse by access controls. This is a very programming-intensive course so students must allocate some time outside of class to completing programs. Topics include: exception handling; pointers; structures; file input and output; classes; instance variables; methods; constructors and destructors; class initialization; overloading; inheritance and access control; polymorphism; and other class operators. Prerequisite: Completion of CMPS 190 with a C or better.

200. DISCRETE STRUCTURES (Credit, 3 Hours). Mathematical foundations of Computer Science, including fundamentals of logic, set theory, Boolean algebra, digital logic, graph theory and finite state machines. Prerequisite: MATH 140.

201. DATA STRUCTURES (Credit, 3 Hours). This course presents the data structures which may be used in computer storage to represent the information involved in solving problems. Analysis of algorithmic complexity and techniques for estimation and measurement are introduced. It Covers standard structures for representing data in abstract (described by a model) form and concrete (described by an implementation) form. Prerequisite: Completion of CMPS 191 with a "C" or better.

202. FILE MANAGEMENT (Credit, 3 Hours). This course covers secondary storage devices, file structures, file design issues, and file processing and programming. Accuracy, integrity, security and data compression techniques relating to files will be treated. Prerequisite: CMPS 201 with a "C" or better.

250. PRINCIPLES OF PROGRAMMING WITH BUSINESS APPLICATIONS (Credit, 3 hours) Facility will be developed in computer program structures, data processing procedures, structures of data files, and programming in a business language (COBOL). This course is designed for students majoring in Computer Science as well as students matriculating in the college of Business. Prerequisite: CMPS190 with a "C" or better.

270. C PROGRAMMING (Credit, 3 Hours) This course introduces students to the basic UNIX operating system structure and "C" programming- UNIX commands and application program, system formats will be taught, calls, subroutines and file. The fundamentals of "C" programming will also be taught along with applications. Prerequisite: Consent of instructor.

290. MICROCOMPUTER APPLICATIONS IN BUSINESS (Credit, 3 Hours). Overview of the historical development of microcomputers in business. The focus is on application and use of operating system commands, word-processing, spreadsheets database managers, and graphics, desktop

publishing and presentation managers for business. Not for credit for Computer Science Majors.

291. ADVANCE TECHNIQUES USING SPREADSHEETS. (Hours, 3 Credits). This course consists of using a software package to enhance the business finance concepts such as financial amortization schedules, trendlines, forecasting, and integrating other software packages. Prerequisite: CMPS 290 or Consent of the Instructor. Not for credit for Computer Science Majors.

292. ADVANCE TECHNIQUES USING BUSINESS DATABASES. (Hours, 3 Credits). This course consists of using a business software package to enhance the concepts of databases such as creating forms, queries, reports and integrating other software packages. Prerequisite: CMPS 290 or Consent of the Instructor. Not for credit for Computer Science Majors.

300. PROGRAMMING LANGUAGES (Credit, 3 Hours). Survey of significant features of programming languages, with emphasis on underlying concepts. Syntax and semantics, control structures, paradigms, data structures related to existing and projected general purpose programming languages will be examined. Prerequisites: CMPS 201 and admitted to the department.

302. COMPUTER ORGANIZATION (Credit, 3 Hours). Understanding the behavior of elementary computer hardware. Content of course deals with two state logic, flip flops, implementation of binary arithmetic, elementary Boolean algebra, computer arithmetic's, memory hierarchies and storage, input/output and interconnect systems.. Use of assembly language programming exercises to explore and analyze microcomputer architecture. Prerequisites: CMPS 191 and CMPS 200.

307. NUMERICAL ANALYSIS (Credit, 3 Hours). This course is designed to solve various numerical problems arising in science and mathematics using the computer. It will also provide an opportunity to develop programming and problem skills. Topics covered include floating point representations, rounding and truncation of various computers, general error analysis, loss of significance. Various numerical algorithms will be introduced. Prerequisites: MATH 233 and MATH 265.

315. INFORMATION SYSTEMS (Credit, 3 Hours). This course is designed to explore the structure, classification, features, and methodologies of modern computer based information systems. The various aspects of data storage, data mining, information retrieval, transaction processing and business analysis will be emphasized. This course is designed to complement Systems Analysis and Design. Prerequisite: CMPS 202 with a "C" or better or Consent from the Instructor.

334. DIGITAL DATA NETWORKS (Credit, 3 Hours). This course covers the standard topics in data communications and computer networks. Topics will include transmission media, analog and digital signals, analog-to-digital conversion, data transmissions, data encoding, effect of noise, error detection and correction, multiplexing, network topologies, standards and protocols, access methods and contention strategies, and data security. Laboratory exercises will be an integral part of this course. Prerequisites: Junior Standing in CS.

350. WEB-BASED PROGRAMMING (Credit, 3 Hours). This course will give the student the skills necessary to develop WWW applications from a client/server architecture. Topic includes history and evolution of HTML; CGI, ActiveX, JavaScript, Perl, and Java Server Pages; securing Web applications, and other web programming options will be presented. Students will work on a team project to develop Web-based solutions to business problems. Prerequisites: Junior Standing in CS.

360. SCIENTIFIC PROGRAMMING (Credit, 3 Hours). Specialized languages and tools for vector and parallel computation will be introduced. Facility will be developed in computer design program structures, problem definition and analysis, program design, algorithmic techniques and programming in a scientific language. Parallel approaches to matrix computations using such tools as high performance FORTRAN and message passing interface. Designed for those students who are interested in applications to computationally intensive problems in science and engineering. Prerequisites: CMPS 190 or equivalent and MATH 135

365. COMPUTERS, INFORMATION AND SOCIETY (Credit, 3 Hours). This course will cover the policies, legal issues and legislation, pro-

professional responsibilities and ethical issues in the discipline of Computer Science. Topics will include, but will not be limited to intellectual property, security and privacy, ethics, and Internet protocol. Prerequisites: Junior Standing or Consent from Instructor.

**370. OBJECT-ORIENTED PROGRAMMING** (Credit, 3 Hours). This is an object-oriented programming course. The ideas are applicable in any object-oriented language (e.g., Java, C++, Small Talk, Visual Basic, and Eiffel). This is a program intensive course. Topic includes: abstraction and encapsulation, design by contract, classes and objects, single inheritance, polymorphism, object identity, declarations and definitions, methods, constructors, access control and overloading. Prerequisite: Junior Standing in CS or consent of instructor.

**371. ADVANCED OBJECT-ORIENTED PROGRAMMING** (Credit, 3 Hours). This is an advanced course in object-oriented programming with JAVA and more intense than 370. Topic includes but not limited to: sub-typing, interfaces and abstract classes, overloading and overriding, multiple and repeated inheritance, polymorphic methods, dynamic binding, genericity, parametric polymorphism, message-passing, threads, remote method invocation, and automatic memory management. Prerequisite: CMPS 370.

**375. INFORMATION SECURITY** (Credit, 3 Hours). This course introduces the students to methods of securing cyberspace is an extraordinarily difficult strategic challenge. Topics include, but not limited to: formal specification and verification of security properties, operating system security, trust management, multi-level security, security labeling, security auditing and intrusion detection, security policy, safeguards and countermeasures, risk mitigation, covert channels, identification and authentication, password schemes, access control lists, and data fusion techniques. Prerequisites: Junior standing or consent from Instructor.

**378. SOFTWARE ENGINEERING** (Credit, 3 Hours) The study of the software life-cycle that different applications go through, from conception to release and maintenance. Topics include, but are not limited to software requirements, software design, critical software systems, software verification and validation, software management, legacy systems, risk management; tool support;

software process; discussion of CMM and ISO-9003. Students will be required to develop a large project in team setting. Prerequisite: CMPS 202 with a "C" or better.

**380. SOFTWARE PROCESS QUALITY** (Credit, 3 Hours). This course discusses the various techniques applied to a software project to achieve the level of quality and productivity required to satisfy customers. The course is designed for those students planning careers as software developers, software managers, or software quality professionals. Classroom projects which illustrate the concepts and techniques will be carried out. Familiarity with a computer language is required. Prerequisites: CMPS 378 with a "C" or better.

**387. OBJECT-ORIENTED DESIGN PATTERNS** (Credit, 3 Hours). Advanced object-oriented design and implementation based on design patterns. Theoretical framework for the basis of design pattern classification into creational, structural, and behavioral patterns; application of specific patterns (Abstract Factory, Builder, Factory Method, Adapter, Composite, Decorator, Proxy; Iterator, State, Strategy, and Template Method) to the design of software applications, to be implemented in one or more object-oriented languages. Prerequisites: CMPS 370 or CMPS 371.

**390. DATA BASE PROGRAMMING** (Credit, 3 Hours). This course covers the principles of database programming and relational databases using a case-based, problem-solving approach. The focus will be Microsoft Access and Structured Query Language. The use of tables, queries, forms, reports, advanced queries, embedded SQL, dynamic SQL and ODBC interfaces will be covered. Students will learn the essentials to develop database applications and data manipulation and gain the skills they need to begin designing, creating, and maintaining databases. This is done through textbook, lectures, labs, lab assignments and projects. Prerequisites CMPS 201.

**400. OPERATING SYSTEMS** (Credit, 3 Hours). This course introduces the student to grips with the actual programs encountered in systems programming. A view of batch processing system programs, their components, operating characteristics, user service and their limitations will be given. Overall structure of multiprogramming systems on multi-processor hardware configurations will be treated,

as well as details on addressing techniques, core management, and file system design and management. Prerequisite: CMPS 302.

402. COMPUTER ARCHITECTURE (Credit, 3 Hours). The course presents advanced principles and current practices in computer architecture. It focuses on issues such as CPU design, instruction set design, hardware and software methods for exploiting instruction-level parallelism, multi-processors, addressing stack architecture, pipeline architecture, advanced computer architecture. Assembler programming and performance evaluation will be covered. Prerequisite: Senior Standing in CS.

404. COMPILER CONSTRUCTION (Credit, 3 Hours). This course emphasizes the techniques involved in the analysis of efficient object code; and ultimate aim is to have each student design a simple but complete compiler. Organization of a compiler including compile-time and run-time symbol tables, lexical scan, object-code generation, error diagnostics, compiler language and overall design will be covered. Prerequisites: CMPS 300 and CMPS 400.

407. NUMERICAL METHODS (Credit, 3 Hours). This course gives a strong working knowledge in applying numerical methods to solve problems. Topics include various methods to approximate desired number, which may be a root, an integral, or a value of a function in a differential equation. All of the methods studied have numerous practical applications in science and engineering. Prerequisite: MATH 265.

412. THEORY OF COMPUTING (Credit, 3 Hours). The fundamentals of computational theory: languages, expressions, and automata. Language categories include regular, context-free, and recursively enumerable. Associated automata examined are finite state machines, pushdown automata, and Turing machines. CMPS 200 with a "C" or better.

415. SYSTEMS ANALYSIS AND DESIGN (credit, 3 hours) The course presents the tools and technique used in analyzing computer automated information systems with a view toward computer implementation of these systems in terms of accuracy and efficiency. CMPS 202 and CMPS 315.

420. DATABASE MANAGEMENT SYSTEMS (Credit, 3 Hours). Topics include entity-relationship model, relational model, hierarchical, and network models, database design, data query, database reliability, database integrity, database protection, review of commercial database systems, and database administrator's role. Prerequisite: CMPS 202.

432. DISTRIBUTED PROCESSING (Credit, 3 Hours). Topics include data communications principles, distributed processing networks, distributed databases, security, implementation, and management. Prerequisite: Senior standing in CS.

433. TELECOMMUNICATIONS (Credit, 3 Hours). Topics include communications environment, communications system components, networks and control common carriers, telephone systems, network services, internet technologies, wireless services, advanced technologies. Prerequisite: Senior standing in CS or consent of instructor.

435. NEURAL NETWORKS (Credit, 3 Hours). This course covers the design and implementation of neural networks. Topics include neural networks as problem solving tools; neural networks as self-organizing systems; single or multi-layered perceptions; associative memory networks; techniques in neural learning, back-propagation, supervised and unsupervised learning. Issues related to neuro-computing hardware and neuro-VLSI implementation will be discussed. Prerequisite: Senior standing in CS or consent of the instructor.

450. COMPUTER SCIENCE SEMINAR (Credit, 3 Hours). This course will treat selected advanced topics in Computer Science. Students will give classroom lectures relating to articles from current periodicals in computer science. Each student will conduct, as a team project, extensive study on a topic approved by the teacher and present results of study both orally and written. Prerequisite: Must be a candidate for graduation in Computer Science during the semester enrolled.

455. SPECIAL PROJECTS (Credit, 3 Hours). Independent project implemented under the guidance of a member of the Computer Science faculty. Prerequisite: Senior standing with a minimum of 21 semester hours in Computer Science.

470. **COMPUTER GRAPHICS** (Credit, 3 Hours). This course covers mathematics and algorithms for generating pictures and storing representations of pictures in files. Calculus and linear algebra are used and modeling of solids is introduced. Prerequisites: MATH 233, MATH 265, and mastery of a computer language.

480. **ARTIFICIAL INTELLIGENCE** (Credit, 3 Hours). Fundamental concepts of artificial intelligence and its various and changing technologies, including: expert systems, natural language processing, computer perception and robotics, intelligent computer-assisted instruction. Students will design and implement a semester project using development tools existing in the Department of Computer Science. Prerequisite: Senior standing in CS or consent of instructor.

### **CRIMINAL JUSTICE (CRJU).**

300. **INTERNSHIP FOR CRIMINAL JUSTICE MAJORS** (Credit, 3 hours). Completion of at least three criminal justice courses, authorization of counselor and program director. The student will complete 100 hours of apprenticeship with a public or private sector operation dealing with control of crime and/or criminals. This may include police, courts, corrections, and private business. Prerequisites: CRJU 202; may be repeated for up to 12 hours in conjunction with CRJU 400 with advisor and program director's permission; these additional hours may be counted toward free electives or Volunteerism.

201. **CRIMINAL JUSTICE I: Introduction to Police, Courts, and Corrections** (Credit, 3 hours). All major components of the criminal justice system will be covered and their relationship to each other in competing for resources with conflicting goals. Their functions and effectiveness in working toward common and competing goals will be analyzed against environmental and organizational demands.

202. **CRIMINAL JUSTICE II: Private Security & Public Crime Prevention** (Credit, 3 hours) Public and private security authority will be examined looking at history up to modern times. Balance reactive policing with proactive philosophy in crime prevention training and operations. Civil litigation resulting from violent and nonviolent

crimes will compare the criminal process to the civil process. Prerequisite: CRJU 201.

310. **CORRECTIONS**. This introductory level course overviews the American Correctional System, and focuses on historical and contemporary developments, trends and dilemmas. Offender profiles, rights, correctional sub-systems, and operational distinctions are examined at the three levels of government and the public and private sectors. A webliography provides a wide range of internet e-resources and links to further explore and examine topics and issues in corrections at an international level.

311. **APPLIED CRIMINOLOGY THEORY** (Credit, 3 hours). Students will be presented an overview of the numerous schools of thought throughout history including those from psychology, sociology, biology, bio-social theory, and others in explaining pathology, causation-correlation, criminalization, and social control. Also covered will be the measurement of crime, criminal behavior patterns, alternative explanations of crime, types of crime and a criminological application to components of the criminal justice system and private sector. Prerequisite: CRJU 202.

312. **HOMELAND SECURITY**. This course introduces students to the challenges for law enforcement to "secure the homeland" from terrorism. Challenges to civil liberties, the Patriot Legislation, and the Department of Homeland Security are among the themes of interests in this course. America's law enforcement roles in national defense from terrorism is the common theme throughout the course. A webliography provides a wide range of internet e-resources and links to further explore and examine topics and issues in homeland security. Prerequisite: CRJU 202.

332. **CRIMINAL AND CIVIL INVESTIGATIONS** (Credit, 3 hours). The student will be made aware of differences in the criminal and civil process in the focus on various crimes. The importance of report writing, notebook, training, and standards will be made apparent to the student. Field trips to investigative agencies and crime scenes. Contrast between interviews and interrogations, tracing sources of information, and informants. Also specific offenses, the investigator in court, identification and reproduction. Prerequisites: CRJU 202 and Junior standing).

334. ABUSES AND ADDICTIONS (Credit, 3 hours). An introductory course in abuse of drugs, polydrug use, crime, and violence. History of drug abuse, and its pharmacology. Numerous explanations of drug abuse: physiological, psychological, and sociological. Treatment and prevention. The business of drugs: local, national and international trafficking; money laundering; politics and narco-terrorism. Prerequisite: CRJU 202.

340. POLICING IN AMERICA (Credit, 3 hours). A detailed survey of law enforcement in America, covering city, county, state, and federal enforcement agencies. Operations, discretion, rank order, policy, and organization will be covered, as well as the environment within which police operate including small, large and rural areas. Implementation of the law, 1983 Civil Rights Violations, use of force, and the impact of race will be analyzed, in addition to other timely subjects. Local and national events will be discussed. Prerequisites: Sophomore standing, CRJU 202.

345. CRIMINAL LAW AND PROCEDURES FOR PRACTITIONERS (Credit, 3 hours ) Operationalization and implementation of the criminal law process. Types of evidence, direct and circumstantial evidence, witnesses, crime scene evidence, hearsay and its exceptions, privileged communications, detention and arrest powers, search and seizure, miscellaneous searches, self incrimination, identification procedures, and preparation for court. Same as LENF 231. Prerequisites: Junior standing, CRJU 310.

346. LIABILITY AND LITIGATION IN CRIMINAL JUSTICE AGENCIES (Credit, 3 hours). Seminar focusing on situational risks concerning civil litigation and its impact on the agencies of criminal justice systems, risk management, managing crime and unintended consequences of policy, training, supervision, liaison with the private sector, excessive force, stress, negligent hiring, negligent retention, and more. Prerequisite: CRJU 345.

357. ANALYZING CRIME: PRACTICAL METHODOLOGY AND STATISTICS (Credit, 3 hours). A combination of statistics and methodology, this course will guide students through definition and application of techniques. Meant to

not only address research issues, this course emphasizes practical use of data in criminal and civil litigation. Real case materials are provided to the student as well as computer techniques for developing and enhancing skills for creation and analysis of crime data in prosecution and civil litigation. Prerequisite: CRJU 311.

358. SEMINAR IN ADVANCED CRIME ANALYSIS (Credit, 3 hours). Seminar in Real analysis of criminal justice data used in planning, management, deployment, "hot spotting," report writing, risk management, training, supervision, police, court administration, prison populations, probation and parole, corporate security, crime prevention projects, and criminal profiling. Skills taught will be that necessary for college graduates desirous of direct entry into criminal justice analysis employment. The course will be 60 percent classroom and 40 percent field working with local, state, and/or federal agencies and supervised by professor. Prerequisite: CRJU 357.

363. TERRORISM (Credit, 3 hours). The course directs the student to both a military and police/paramilitary perspective on terrorism, a United States vs. an international understanding, the role of local, state, and federal agencies, the various types of terrorism and the various international actors, groups, gangs and militaries involved, narco-terrorism, American foreign business interests and security, and the ultimate interface of public and private sector interests in America's new home front danger. Prerequisite: CRJU 310.

367. CRIMINAL JUSTICE POLICY AND ADMINISTRATION (Credit, 3 hours). Focus on the policy process as it relates to crime legislation, its implementation, and actual workings of the political system. Special consideration is given the student regarding a framework for analysis, influences on criminal justice policy, how policy is made, application of the policy cycle to the crime issue, planning, and the tools requisite of a policy analyst Prerequisites: CRJU 310.

375. LEGAL RESEARCH METHODOLOGY (Credit, 3 hours). Legal methods used in real cases will prepare the student for investigative skills needed in uncovering information necessary for answer-

ing basic questions through legal research. Instructed by attorneys and other practitioners within the criminal and civil courts, the student will become sensitized to requirements for generation of legal information. Prerequisite: CRJU 345.

390. CRIME AS AN INTERDISCIPLINARY INTELLECTUAL PURSUIT (Credit, 3 hours). This course pursues the function of crime within national and international society, not only recently but in a historical context. The interaction of literary content and philosophy will be studied against an historical background which considers not only sociological and psychological paradigms, but the input from increased efforts at professionalism in the public and private sectors. A workshop environment stressing an interdisciplinary philosophy. No Prerequisites: Open to any student currently enrolled in Southern University

396. CERTIFIED PROTECTION OFFICER (CPO) TRAINING (Credit, 3 hours). The CPO designation certifies that the holder of this certification has completed basic course work consolidated for both public and private security functions. This course is an excellent resource for practitioners in reducing liability for police, corrections, and private security operations. Prerequisites for non-practitioners: at least 18 hours of criminal justice core and elective courses, Department of Criminal Justice.

397. CERTIFIED SECURITY SUPERVISOR (CSS) TRAINING (Credit, 3 hours). The CSS designation certifies that the holder has successfully completed training covering report writing, personnel policies and procedures, multicultural diversity, ethics, stress management, complaints and grievances, courtroom testimony, supervision and training, response plan implementation, development of safety attitude, designing operations centers, statistical analysis, and community relations. Prerequisites for non-practitioners: at least 30 hours of criminal justice core and elective courses, senior standing, prior work experience, and approval of program director.

400. PUBLIC/PRIVATE SECTOR PRACTICUM (Credit, 3 hours). This course is utilized for students to apprentice in real world operations. Prerequisites CRJU 310; Junior standing.

429. COMPARATIVE JUSTICE SYSTEMS (Credit, 3 hours). A cross-cultural study of crime and crime control applying the comparative method in the science of criminology. Advantages and disadvantages of the global village are discussed as is the goals of comparative research: studying foreign criminal and civil law, culture, and how data and other information are collected. Also examined are the special problems of empirical research, theory testing, international strategies, and internationally-induced local crime problems. Prerequisite: CRJU 311, Junior standing.

430. SEMINAR IN COMMUNITY-BASED CRIMINAL JUSTICE (Credit, 3 hours). Seminar in community-based criminal justice agencies, special training needed, necessary interactions with the environment, educational presentations of agencies, the impact on law enforcement, court, corrections, drug abuse, etc., and interfacing with neighborhood groups, the church, educational institutions, and others. Prerequisite: CRJU 310.

435. PROBATION AND PAROLE (Credit, 3 hours). Analysis of the comparison and contrast of probation and parole supervision, their interaction with the criminal courts, administrative courts, and revocation hearings. Detailed perspectives of sworn versus unsworn peace officer status and the differing correctional philosophies will be discussed. Prerequisite: CRJU 310.

450. VIOLENCE WORKSHOP (Credit, 3 hours). Professional certification credential based on analysis of violence, how it starts, and its impact on the criminal justice system. Students will learn violence prevention skills used in the criminal justice profession: mediation, conflict resolution, and anger management. The course will study the application state-of-the-art innovative violence prevention programs practiced in criminal justice system agencies. Prerequisite: CRJU 311.

453. SEMINAR IN ETHICS AND ETHNICS (Credit, 3 hours). The study of ethics and race, the rule of law, crime control and due process, individual decision-making and discretion, code of ethics in policing, courts and corrections, loyalty, employee whistleblowing, ethical

duty toward truthfulness, the moralities of police lying, perjury, criminal justice deviancy, gratuities, use of force, “snitches,” barriers to equality, reverse discrimination, preferential treatment, rehabilitation, death penalty, and retaliation. Prerequisite: CRJU 311.

457. CRIME PREVENTION BEST PRACTICES AND METHODS (Credit, 3 hours). The student will learn what negligence is, including civil vs. criminal law, the issue of foreseeability, and proactive strategizing. The use of the security survey in and audit in identifying security needs, “premises profiling” as well as crime prevention through environmental design (CPTED), community oriented policing, and other crime prevention concepts in the protection of assets on numerous types of premises. Prerequisite: CRJU 357.

469. VICTIMOLOGY (Credit, 3 hours). Topics addressed in this course include: the extent of criminal victimization; the role of the victim in victimization; the cost of victimization; child, elder, and spouse abuse; victim rights and repaying victims; sources of data on criminal victimization; victimizer attitudes toward their victims; victim-offender relationships; victim/target selection; victim personal characteristics; and victim behavior as a situational variable. Prerequisites: CRJU 311, Junior standing.

478. WORKPLACE VIOLENCE (Credit, 3 hours). Students will consider causes of workplace violence such as a job threat, lack of dispute-resolution skills, mental illness, general life stress, and substance abuse, including violence as a cultural norm. Behavioral topologies will be compared to most recent use of personality profiling, ethics, the nonviolence paradigm, building values into the organization, paranoid organizations, creation of organizational violence, and analysis of healthy organization. Prerequisites: CRJU 310, Junior standing.

483. SOCIAL CONTROL IN THE CRIMINAL AND CIVIL COURTS (Credit, 3 hours). Examination of the court implementation process as social control in both civil and criminal law. The effects of organizational process on issues and

court players including attorneys, plaintiff and defense civilians, the court, jury, judges, police, and probation officers. Prerequisite: CRJU 345.

492. CRIMINAL JUSTICE WORKSHOP (Credit, 3 hours). Topics vary each time course is offered. A focus will be on timely subjects and those of concern to criminal justice practitioners and the public. Prerequisites: Junior class standing; CRJU 202; may be repeated twice with different topics.

495. SEMINAR IN CORPORATE SECURITY (Credit, 3 hours) Seminar considering private sector corporate security, training, definition of risk, predatory prevention, reduction of criminal opportunity in different types of businesses, policy development, employee assistance programs, organizational behavior, understanding of systems and security awareness training at different levels of organization, and reducing liability. Prerequisite: CRJU 310.

498. INDEPENDENT STUDY (Credit, 3 hours) The student presents a plan for study to a criminal justice faculty who acts as a mentor throughout the semester. The student and professor meet regularly in order to complete supervision of the project. The student and professor work in conjunction with the program director in completing the study. The study plan requires authorization of the program director. Prerequisite: Junior standing and approval of chair.

499. SENIOR SEMINAR— PRACTITIONER PROFESSIONALISM (Credit, 3 hours). A senior capstone course which centers on the student’s marketing skills, consolidation of “college knowledge” useful in prospecting and securing employment. Students will learn how to prepare for an interview for criminal justice and private sector positions using social science theory, practice and methodology, develop resumes, and how to utilize the computer in locating and applying for jobs on the Internet as well as through more traditional means at the local, state, and national levels. Prerequisite: Senior standing or permission of chair.

## CURRICULUM AND INSTRUCTION (CRIN)

205. SEMINAR IN EDUCATION (Credit, 2 hours). This is a survey course designed to introduce freshman students to the field of teacher education as a career. Students become

familiar with policies and procedures of the university as stipulated in the university catalog, the College's conceptual framework, the governing bodies of the college, historical ramifications of education, educational philosophies and theories, professional organizations and their impact on teacher education. Students will participate in activities relative to entrance requirements for teacher education, portfolio development, field and clinical experiences. The prospective teacher education candidates prepare for the PRAXIS I examination.

**211. PRINCIPLES OF EDUCATION** (Credit, 3 hours). This course helps prospective teachers learn how to teach or improve their teaching, as well as teaching students how to learn. It includes techniques in reporting and analyzing important research, presentation of practical teaching and learning procedures, selection and implementation of effective classroom instructional and management strategies, curriculum design, lesson planning, material selection and use, classroom management, and evaluation in the teaching-learning process are explored.

**212. COMPUTER LITERACY FOR TEACHERS** (Credit, 3 hours). Computer Literacy for Teachers introduces the use of technology in the curriculum. The goals are to 1) familiarize teacher candidates with skills and concept technologies; 2) design technology-enhanced experiences that address best practices and support content standards and student technology standards in the school environments; 3) present field experiences that engage candidates in technology integration among learners from diverse backgrounds.

**323. MULTICULTURAL EDUCATION** (Credit, 3 hours). This course includes field experiences. The goals of the course are to: 1) implement instructional strategies and materials that focus on students' understanding and appreciation of diverse cultural groups in a pluralistic society, enable students to analyze, evaluate, and propose solutions to contemporary social problems; 2) correct misrepresentations of any cultural group according to diversity factors; 3) address issues of racism, bias and prejudice as these factors affect the experience of individuals and groups; 4) identify strategies that encourage

students' valuing their own heritage throughout the world; 5) develop awareness and sensitivity to individual differences within cultural groups; and 6) identify stereotypes related to diversity factors.

**328. CLASSROOM MANAGEMENT FOR TEACHERS** (Credit, 3 hours). This course gives teacher candidates the information and skills to establish classroom management systems. The content addresses the planning decisions teachers make in arranging the physical space, establishing rules and procedures, planning and conducting instruction, maintaining appropriate behavior, preventative problem behavior, using good communication skills, and managing special groups.

**402. EVALUATION PROCEDURES** (Credit, 3 hours). This course enhances teacher candidates' understanding of the relationship between evaluation procedures and the teaching-learning process. The candidate learns how to construct classroom tests that measure specific learning outcomes, interpret tests, how to administer tests properly, and use test results effectively. Constructing and using non-test evaluation instruments, and interpreting simple statistical data is required in the course.

**441. OBSERVATION AND STUDENT TEACHING IN EARLY CHILDHOOD EDUCATION** (Credit, 9 hours). Professional laboratory experiences for students in early childhood education, consisting of observation and student teaching. One half of the semester is devoted to working with children at the kindergarten level and the other half is devoted to working with children in a regular classroom situation. Prerequisites: 2.5 GPA, passing scores on the PRAXIS Series Examination.

**443. OBSERVATION AND STUDENT TEACHING IN ELEMENTARY EDUCATION** (Credit, 9 hours). Professional laboratory experiences for elementary education majors in a regular classroom situation involving students at their level of interest from first through sixth grade for a period of one semester. Prerequisite: Level III Admission Standards.

445. OBSERVATION AND STUDENT TEACHING IN MIDDLE SCHOOLS (Credit, 9 hours). Observing and teaching in middle cooperating middle schools under the direction of the middle teachers and University supervisors. Pre-requisite: Level III Admission Standards.

447. OBSERVATION AND STUDENT TEACHING IN SECONDARY SCHOOLS (Credit, 9 hours). Observing and teaching in cooperating high schools under the direction of high school subject matter teachers and University supervisors. Pre-requisite: Level III Admission Standards.

449. STUDENT TEACHING SEMINAR (Credit, 0 hour). Required of all student teachers.

### **Courses for Elementary Education Majors**

315. ART IN THE ELEMENTARY SCHOOL (Credit, 3 hours). This course will expose teacher candidates to the selection, organization, guidance, and evaluation of art activities for students in elementary schools. The candidates experience using selected methods and materials: they will also be required to present finished projects.

329. MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS (Credit, 3 hours). This course emphasizes a conceptual approach to the teaching of mathematics, which is problem-centered, content oriented, and learner supportive. It advocates discovery based mathematics instruction. Topics develop knowledge of, and use mathematical concepts, procedures, and reasoning processes specific to grades 1-6: problem solving, sets, functions and reasoning, whole numbers, number theory, integers and fractions, decimals, rational and irrational numbers, statistics, probability, geometry, algebra and measurement.

330. ELEMENTARY SOCIAL STUDIES METHODS (Credit, 3 hours). In accordance with the ACEI/NCSS standards for social studies, candidates will be provided opportunities to know, understand, and use the major concepts and modes of inquiry from the social studies they promote elementary students' abilities to make informed decisions as citizens of a culturally diverse democratic society and interdependent

world. Candidates engage in critical analyses of variety of objectives, instructional materials strategies, and assessment techniques for elementary social studies.

331. ELEMENTARY LANGUAGE ARTS METHODS (Credits, 3 hours). This course helps candidates gain competence in the use of English Language Arts. Opportunities will be provided to use concepts from reading, language and child development to teach students reading, writing, listening, speaking, viewing, and thinking skills and to help candidates apply their developing skills to different situations, materials, and ideas. This course is aligned with ACEI /NCATE standards and with the conceptual framework of the College of Education.

335. ELEMENTARY MATHEMATICS METHODS (Credit, 3 hours). This course 1) familiarizes teacher candidates with the guiding principles that have proven to be effective in facilitating the learning of mathematics on the part of all elementary students; 2) enables teacher candidates to develop the process skills that will result in the students acquisition of mathematical content knowledge; and 3) heightens the awareness on the part of teacher candidates that mathematics is a human activity to which all cultures have contributed.

336. ELEMENTARY SCIENCE METHODS (Credit, 3 hours). This course 1) familiarizes teacher candidates with the principles and practices that have proven effective in facilitating the learning of science; 2) enables teacher candidates to develop the inquiry-based process skills; 3) enables teacher candidates to engage students in the acquisition and application of science content knowledge applicable aligned with ACEI standards; 4) enables teacher candidates to develop scientific attitudes and values; and 5) heightens the awareness that science is a human enterprise to which all cultures have contributed.

337. ELEMENTARY READING METHODS (Credit, 3 hours). This course enables elementary teacher candidates to examine objectives, principles, and practices in reading. Teacher candidates develop competence in providing

reading experiences appropriate to the learning styles of diverse children.

**349. DIAGNOSIS AND CORRECTION OF READING DIFFICULTIES** (Credit, 3 hours).

This course examines the multiple facets of diagnosing and correcting reading problems among students. It gives candidates concrete methods of identifying and correcting reading difficulties. The importance of direct instruction, motivational learning activities, and abundant practice is stressed throughout this course. Candidates are required to construct their own diagnostic kits during this course.

**353. PRACTICUM IN READING** (Credit, 3 hours).

This course teaches candidates to integrate reading across content areas. The course integrates reading, writing, speaking, and listening strategies and activities. It emphasizes comprehension as a tool to expand the existing knowledge base of each individual learner. The major emphasis is on the practice of a balanced literacy approach stressing the importance and necessity of combining research based skills and strategies with fine literature based on research and theories of learning. The course helps candidates become life long learners, problem solvers and critical thinkers. It adheres to standards of the International Reading Association (IRA) and the unit's conceptual framework themes.

**416. PRINCIPLES OF TEACHING MUSIC IN THE ELEMENTARY GRADES** (Credit, 2 hours).

This course develops objectives, methods, instructional and evaluation procedures, along with materials used in the teaching of music in the elementary school, including unit and lesson planning. Students have functional experiences with the soprano recorder, autoharp, guitar, and Orff instruments. Students observe elementary vocal and instrumental music classes in the public schools. Prerequisite: Completion of core music courses. Fall.

**417. PRINCIPLES OF TEACHING MUSIC IN THE SECONDARY SCHOOL** (Credit, 2 hours).

This course teaches the objectives, methods, materials, and instructional and evaluation procedures used in music and secondary schools. Special attention is given to teaching music courses in secondary schools, including chorus and general music, boys' and girls' glee clubs, orchestra,

and special theory classes. Students learn evaluation procedures, tests, and measurements appropriate to secondary school music. Spring. Prerequisite: CRIN 416.

**Courses for Early Childhood Education Majors**

**320. EARLY CHILDHOOD SOCIAL STUDIES METHODS** (Credit, 3 hours).

The general purpose of this course is to prepare PK-3 teacher candidates to translate knowledge from history and social sciences into appropriate and meaningful social studies experiences for PK-3 students. This course will incorporate the thematic, programmatic, and disciplinary standards developed by the National Council for the Social Studies (NCSS) and other national associations.

**321. EARLY CHILDHOOD LANGUAGE ARTS METHODS** (Credit, 3 hours).

The purpose of this course is to provide Early Childhood teacher candidates with the theoretical background and instructional strategies surrounding the six areas of the English Language Arts: listening, speaking, reading, writing, viewing, and visually representing. Information and activities in this course will provide teacher candidates with the information necessary to address the standards of various national associations, and Louisiana Content Standards in Reading/Language Arts, Components of a Balanced Reading Approach, and themes from the College's Conceptual Framework.

**325. EARLY CHILDHOOD MATHEMATICS METHODS** (Credit, 3 hours).

This course is designed to provide preservice and in-service PK-3rd grade mathematics teachers with ideas, techniques, and approaches to teaching mathematics that will enable their students to acquire mathematical concepts, attitudes and skills needed to become mathematically literate. The general goals of the course are to: 1) familiarize teacher candidates with the guiding principles that have proven to be effective in facilitating the learning of mathematics on the part of all students; 2) enable teacher candidates to facilitate the development of the process skills that students in grades PK-3 need in order to learn and use mathematics; 3) enable teacher candidates to engage students in the processes that will result in the acquisition of mathematical content knowledge; and 4) heighten the aware-

ness on the part of teacher candidates that mathematics is a human activity to which all cultures have contributed.

326. **EARLY CHILDHOOD SCIENCE METHODS** (Credit, 3 hours). This course includes at least 15 hours of field experiences. The goals of this course are to: 1) familiarize teacher candidates with the principles and practices that have proven to be effective in facilitating the learning of science on the part of all students; 2) enable teacher candidates to develop the inquiry-based process skills that their students need in order to learn and use sciences; 3) enable teacher candidates to engage students in the processes that will result in the acquisition and application of science content knowledge applicable to grade PK- 3; 4) enable teacher candidates to develop scientific attitudes and values on the part of their students; and 5) heighten the awareness on the part of teacher candidates that science is a human enterprise to which all cultures have contributed.

327. **EARLY CHILDHOOD READING METHODS** (Credit, 3 hours). This course is designed to enable Early Childhood candidates to examine objectives, principles, and practices in current use for instruction in reading. As a result of participating in all activities of this course, each teacher candidate should have developed minimal competency for planning, assessing reading needs and providing developmentally appropriate reading experiences to address the learning styles for diverse learners at varying levels of development.

352. **CHILDREN'S LITERATURE** (Credit, 3 hours). Upon the completion of the activities of this course, each candidate will be able to identify objectives, principles, concepts, content, appropriate methods of teaching children's literature, and demonstrate the use of techniques and materials compatible with children in the pre-k and elementary school.

360. **INTRODUCTION TO THE DEVELOPING YOUNG CHILD** (Credit, 3 hours). The course is designed to enable teacher candidates to acquire knowledge of the typically developing young child, as well as the deviations in the child's development as a member of a family, the community, and of society. This course will help equip each candidate with the necessary skills, disposition, and

competences to address the learning needs, styles, skills, of PK-3 grade level students as they become life long competent learners in all facets of life. All activities in this course will be aligned with State Content Standards, NCATE, INTASC, NAYEC, other specialty organizations, national standards, and the Unit's conceptual framework.

361. **PRACTICUM IN EARLY CHILDHOOD EDUCATION** (Credit, 3 hours). This is a methods course in the teaching of young children, (Pk-3). It focuses on direct application of the content of English-Language Arts. Emphasis will be placed on the five components of effective reading and instructional strategies for teaching English/Language Arts skills. All activities in this course will be aligned with state consortia content knowledge for PK-3, specialty organizations, national standards, critical thinking, diversity, and the infusion of technology into all aspects of the curriculum.

470. **ORGANIZATION AND ADMINISTRATION OF EARLY CHILDHOOD PROGRAM** (Credit, 3 hours). This course is designed to help teacher candidates understand the historical background of preschool education, recognize the growing need for schools for young children, analyze problems and issues of consequence in the thinking of contemporary education and understanding how to organize developmentally appropriate school programs (Model Literacy Programs) to meet the global need of diverse learners. The activities, strategies, and other related information of this course will help teacher candidates with the necessary skills to help address NAEYC standards, Louisiana Content Standards (LA Standards for Program Serving Four-Year-Old Children), components of the Balanced Reading Approach, the No Child Left Behind Philosophy, as well as integrate themes from the components of the college's Conceptual Framework.

### **Courses for Middle School Education Majors**

317. **ORGANIZATION AND ADMINISTRATION OF MIDDLE SCHOOL PROGRAMS** (Credit, 3 hours). This course examines the philosophical foundations of the middle school movement and its emphasis on the physical, intellectual, social, and emotional needs and

characteristics of middle schoolers. Topics include: (1) the development of young adolescents; (2) the history and philosophy of the middle school; (3) the curriculum for learners in the middle grades; (4) effective instruction in the middle grades; (5) transition programs; (6) classroom management and discipline; (7) interdisciplinary team organization; (8) the advisory role; (9) assessment and evaluation; and (10) grouping. Observation and participation in appropriate settings are required. The course is also designed to provide teacher candidates with an understanding of how middle schools provide a context for shaping a more caring, rigorously responsive and intellectually engaging classroom/school community. Standards-based middle school teacher preparation is emphasized and the contents are aligned with the NMSA standards, the LCET, INTASC, and the Unit's conceptual framework themes of best practices, critical thinking, and multicultural and global perspectives.

340. MIDDLE SCHOOL SOCIAL STUDIES METHODS (Credit, 3 hours). This course is designed to help middle school level teacher candidates understand the major concepts, principles, theories, standards and research related to middle school level social studies, and provide opportunities for them to apply this knowledge in practice teaching episodes. This course will incorporate the thematic, programmatic, and disciplinary standards developed by the National Council for the Social Studies (NCSS) and the National Middle School Association (NMSA).

341. MIDDLE SCHOOL LANGUAGE ARTS METHODS (Credit, 3 hours). The general purpose of this course is to provide candidates with knowledge of the language arts and understanding of methods that develop language arts abilities in middle school students. The National Middle School Association, International Reading Association and the National Council for the Teachers of English (1996) defines these areas as listening, speaking, reading, writing, viewing, and visually representing. Candidates will be provided opportunities to plan lessons, evaluate language art abilities, teach lessons, and design activities to help candidates apply language arts skills in the middle school classrooms.

345. MIDDLE SCHOOL MATHEMATICS METHODS (Credits, 3 hours). This course is designed to provide preservice and in-service middle school mathematics teachers with the knowledge, skills, and attitudes needed to promote the development of mathematics competencies of young adolescents. Accordingly, this course is designed to cause middle school mathematics teachers to understand and apply major concepts, principles, theories, and research related to mathematics education and the unique physiological, social, and psychological characteristics of young adolescents.

346. MIDDLE SCHOOL SCIENCE METHODS (Credit, 3 hours). This course includes at least 15 hours of field experience and is designed to provide preservice and in-service middle-school science teachers with the knowledge, skills, and attitudes needed to promote the development of scientific knowledge, process skills, and attitudes upon which scientific literacy depends. Accordingly, this course is designed to cause middle school teachers to understand and apply major concepts, principles, theories, standards and research related to science education and the unique physiological, social, and psychological characteristics of young adolescents.

347. MIDDLE SCHOOL READING METHODS (Credit, 3 hours). This course is designed to provide opportunities and experiences for teacher candidates to apply knowledge acquired to learning situation when teaching young adolescents. Field experiences, mocreaching, and demonstration of specific competencies will be applied while teaching reading. This course will also help teacher candidates acquire and apply theoretical background knowledge using the best practices for addressing the major components of Balanced Reading Approach to instruction using the latest multimedia resources for addressing the diverse needs of students. Additionally, this course will also be guided by the components of the college's conceptual framework, NMSA, NCTE/IRA, ACEI/NCATE, NMSA, INTASC, ISTE, LA Content Standards and other subject area standards.

### Courses for Secondary Education Majors

324. SECONDARY SCHOOL METHODS AND MATERIALS (Credit, 3 hours). Designed to enable students in secondary education to learn how to select and to use effectively a variety of methods and appropriate materials with classes in middle and secondary schools. Lesson plans and units are constructed and employed in the course.

420. TECHNIQUES OF TEACHING BIOLOGICAL AND PHYSICAL SCIENCES I (Credit, 3 hours). CRIN 420 is an undergraduate course designed to provide teacher candidates with: 1). pedagogical knowledge; 2). pedagogical content knowledge and skills needed to effectively teach students in biological and physical sciences grades 7-12. All pedagogical strategies will be content specific. The overall goal of this course is to provide each candidate with the theoretical and practical knowledge of how students learn science. The guiding principles, content, processes and course structure are profoundly influenced by the National Science Education Standards, National Research Council, Project 2061, National Council of Accreditation for Teacher Education (NCATE), Louisiana State Standards and Benchmarks, and PRAXIS. Candidates MUST leave one morning free for observations /field experiences in the public/private schools.

421. METHODS AND MATERIALS IN SECONDARY SCHOOL SOCIAL STUDIES (Credit, 3 hours). A consideration of social studies in the curriculum, recent trends, methods of instruction, and use of instructional materials. Emphasis on daily planning and unit planning.

422. METHODS AND MATERIALS IN TEACHING SECONDARY ENGLISH (Credit, 3 hours). This course is taken concurrently with twenty-five hours of field experiences. The overall objectives of the course are to familiarize teacher candidates with the aims, selection of materials, and the best practices involved in teaching grammar, composition, and literature in high school. It will also provide teacher candidates with opportunities to observe models of effective classroom teaching and apply these principles in field settings. This course will help students develop an awareness of how experiences,

insights from readings, and observations are integrated into their personal teaching style. Emphasis is placed on the interrelatedness of the all language abilities – reading, writing, speaking, and listening, and visually presenting and viewing.

423. METHODS AND MATERIALS IN TEACHING SECONDARY MATHEMATICS-I (Credit, 3 hours). This course is designed to provide a variety of experiences in practical applications of mathematical content applicable to secondary grades. The methods and materials with technology integration, assessment, critical thinking, problem solving and diversity are aligned with National Council of Teachers of Mathematics (NCTM) standards and the Louisiana Content Standards.

424. TECHNIQUES OF TEACHING BIOLOGICAL AND PHYSICAL SCIENCE II (Credit, 3 hours). CRIN 424 is a follow-up to 420. It is designed for candidates to develop and use instructional materials with an activity inquiry laboratory and field base approach: reflection, problem-solving, organizing materials, using technology, developing comprehensive management/safety plans to manage classroom behavior, activities, materials, live organisms, safety in science labs; developing authentic assessment and evaluation measures to determine student progress. Teaching techniques and strategies are content specific (Biology, Chemistry, & Physics). Specific attention is provided in this course to the teaching that relates to National Science Education Standards (NSES), Project 2061, PRAXIS, National Council for Accreditation of Teacher Education (NCATE), Louisiana Standards and Benchmarks for Grade7-12, and Louisiana Components of Effective Teaching (LCET).

425. METHODS AND MATERIALS IN TEACHING SECONDARY SCHOOL MATHEMATICS II (Credit, 3 hours). This course is designed to provide multi-faceted experiences in methods, materials, field-observations, technology integration, assessment, critical thinking, best practices, and diversity in the area of mathematics as aligned with the National Council of Teachers of Mathematics (NCTM) and Louisiana State Standards. The course also involves exploration and appraisal of remedial techniques and selected instructional materials and devices consistent with principles and standards for school mathematics.

427. METHODS AND MATERIALS IN TEACHING FOREIGN LANGUAGES IN SECONDARY SCHOOLS (Credit, 3 hours). A survey of the objectives, content, and methods of instruction and evaluation in the teaching of foreign languages in secondary schools.

430 SECONDARY SOCIAL STUDIES METHODS (Credit, 3 hours). The goal of this course is to assist teacher candidates in their development as reflective practitioners, researchers, and critical thinkers who have a multicultural and global perspective on the teaching of social studies. As reflective practitioners, the teacher candidates will continuously engage in self-assessment to determine whether their instructional and assessment plans are inclusive of best practices that are aligned with the Louisiana Components of Effective Teaching and the state and national curriculum standards as set forth by the National Council for the Social Studies.

### ECONOMICS (ECON)

200. PRINCIPLES OF ECONOMICS I (Credit, 3 hours). Study of the operation and function of the American economic system. Attention is given to current economic problems such as those relating to income, employment, the business cycle, money and banking, growth, and development. Prerequisite: Sophomore standing.

205. PRINCIPLES OF ECONOMICS (Credit, 3 hours). Course designed to teach the central components of micro-economics and macro-economics, along with economic issues prominent in today's world, to students who are non-business majors and who take a one-term economics course. Topics include: the role of demand and supply in determining prices; competitive and monopolistic markets; income distribution; gross domestic product and employment; short-run economic fluctuations and fiscal policy; money, banking and monetary policy; and international trade and finance.

210. PRINCIPLES OF ECONOMICS II (Credit, 3 hours). The study of price and output determination in a free enterprise economy with the assumptions of consumer maximization of utility and producer maximization of profits. Prerequisite: ECON 200.

275. BUSINESS AND ECONOMIC STATISTICS (Credit, 3 hours). Introduction to quantitative analysis of business and economic problems, with emphasis on the application of statistical methods and tools in business decision-making. Topics include descriptive statistics, elementary probability, and introduction to statistical inference using sampling, estimation, hypothesis testing, and regression-correlation analysis. Prerequisite: MATH 200 and MATH 203.

300. INTERMEDIATE MACRO THEORY (Credit, 3 hours). Income and employment and national income analysis; potential contribution of monetary and fiscal policies utilized to achieve full employment, price stability, and economic growth. Prerequisite: ECON 210.

310. INTERMEDIATE MICROECONOMIC THEORY (Credit, 3 hours). Microeconomic theory focusing on the role of prices in directing the actions of individuals and markets in the process of consumption, production and exchange of goods, services and resources. Primary emphasis given to topics such as elasticity, consumer choice theory, theory of the firm, profit maximization under perfect and imperfect competition, resources utilization, the economics of gender and race, welfare economics, and international trade. Prerequisite: ECON 210.

320. LABOR AND HUMAN RESOURCE ECONOMICS (Credit, 3 hours). Course provides current information regarding labor market theory and practice. Initial objective of course is to construct a detailed demand and supply model of the competitive labor market. Relationship between earnings and education developed within the human capital framework using investment theory. Additional issues analyzed in course include: worker mobility, productivity, gender, race, and ethnicity, unions and collective bargaining, earnings inequality, unemployment, inflation and international labor related issues. Prerequisite: ECON 210.

340. MONEY AND BANKING (Credit, 3 hours). A study of the commercial banking system, nonbank financial institutions, the Federal Reserve System, monetary theory vs. Keynesian theory, and policy. Prerequisite: ECON 210.

360. PUBLIC FINANCE (Credit, 3 hours). An introduction to public expenditures and taxation, analysis of types of taxes and incidence of taxes, fiscal theory and policy, and debt management. Prerequisite: ECON 210.

370. ECONOMICS OF ENERGY AND ENVIRONMENTAL RESOURCES (Credit, 3 hours). Course focuses on environmental issues and policy. Benefits and costs of current alternative environmental policies analyzed. Specific attention given to the relationship between energy and natural resources development and the impact on the environment. Prerequisite: ECON 210.

415. MANAGERIAL ECONOMIC ANALYSIS (Credit, 3 hours). Application of economic analysis to managerial decision making in areas of demand, production, cost, and pricing. Evaluation of competitive strategies. Prerequisites: ECON 210, ECON 275.

460. ECONOMICS OF DEVELOPMENT AND GROWTH (Credit, 3 hours). Theories of economic development and their application in such areas as urban development, regional planning, and developing nations. Specific tools such as export-base, input-output, and econometrics models presented. Prerequisite: ECON 210.

480. INTERNATIONAL ECONOMICS (Credit, 3 hours). An introductory course in international economics designed to acquaint students with trade theories, tariffs, regional trading arrangements, balance of payments, foreign exchange, and international monetary problems. The position of the U. S. in international trade is emphasized. Prerequisite: ECON 210.

486. MEDICAL AND HEALTH ECONOMICS (Credit, 3 hours). The economic and financial factors which impact the health care sector; the demand and supply of health services; the role of competition, new organizational entities, and the changing regulatory climate in the health sector. Prerequisite: ECON 210.

491. INTRODUCTION TO ECONOMETRICS (Credit, 3 hours). Theory and applications of statistical methods cross-sectional and time-series data for estimating relationships suggested by economic analysis. Topics include

testing of economic hypothesis concerning demand and supply, production function, and others using single equation and simultaneous equation models. Class members will participate in a term project involving the construction and estimation of an econometrics model. Prerequisites: ECON 210.

495. INTERNSHIP IN ECONOMICS (Credit, 3 hours). Course offers opportunity to engage in an economically related working experience through on-the-job work assignments with business firms and governmental agencies. Economics students spend 12 hours per week in on-site field work. Prerequisite: Permission of the department chair.

498. INDEPENDENT STUDY IN ECONOMICS (Credit, 3 hours). Faculty-supervised study offers students the opportunity to undertake independent research on economics subject matter not covered by formal courses or to participate in specialized topical projects related to the emerging problems and contemporary issues of economics. Prerequisite: Permission of the department chair and by the college dean.

## **ELECTRICAL ENGINEERING (ELEN)**

208. ELECTRICAL CIRCUITS I (Credit, 3 hours). An introduction to analysis of electrical networks containing DC sources and passive components. Methods include nodal and mesh analysis, superposition, Thevenin's and Norton's theorems and maximum power transfer. Prerequisite: MATH 265.

209. ELECTRICAL CIRCUITS II (Credit, 3 hours). Covers the application of forcing functions to networks, power, and energy; polyphase circuits, complex frequency and frequency responses; transformers, and other two-port networks. Prerequisite: ELEN 208.

210. ELECTRICAL CIRCUITS LABORATORY I (Credit, 1 Hour) (Lab., 3 Hours). Experiments concerning principles taught in ELEN 208. The laboratory will cover basic resistive circuits, Ohm's law, Kirchhoff's law, voltage and current division law and Thevenin's, Norton's equivalent circuits and operational amplifier circuits. Corequisite: ELEN 208.

211. ELECTRICAL CIRCUITS LABORATORY II (Credit, 1 Hour) (Lab., 3 Hours). Experiments concerning principles taught in ELEN 209. The labora-

tory will cover AC electric laws; transient and steady-state responses of RLC networks and sinusoidal AC networks containing resistance, capacitive, and inductive circuit elements. Corequisite: ELEN 209.

212. ELECTRONIC PROPERTIES OF MATTER (Credit, 3 hours). A study of the theory and fabrication of solid state electronic devices including the electrical behavior of charge carriers in solids. Structures of many electron atoms. Schrodinger Wave Equation. Band Theory of Solids. Electrical and Magnetic Properties of Matter. Semiconductor Physics of p-n junction and newer devices. Prerequisites: PHYS 222 and MATH 265. Co-requisite: MATH 364.

299. COOPERATIVE EDUCATION (Credit, 3 hours). Beginning at the sophomore year, a student may enroll in a work-study program which permits alternate work and study periods by semester.

303. DIGITAL LOGIC DESIGN (Credit, 3 hours). Topics covered include number systems, binary arithmetic and codes, Boolean algebraic simplification, Quine-McCluskey method, Karnaugh map, diode and transistor logic, flip-flops, sequential networks, state tables and assignments. Prerequisite: ELEN 208 or equivalent.

304. INTRODUCTION TO MICROPROCESSORS (Credit, 3 hours). Presents the use of microprocessors to cover topics in computer hardware and software. Hardware topics and control buses are discussed. Trade-offs of different microprocessor architectures are explored. Software topics include instruction formats and types, program flow charts, algorithm construction, micro data structures, and monitors. Students will be expected to write programs in assembly language. Software tools such as assemblers, debuggers, in-circuit emulators, high level languages and logic state analyzers, sensors, transducers, A/D and D/A converters, protocol, interfaces, and modems are discussed. Prerequisite: ELEN 303. Co-requisite: ELEN 306.

305. DIGITAL LOGIC DESIGN LABORATORY (Credit, 1 Hour) (Lab., 3 Hours). Experimental investigations of topics relevant to ELEN 303. The laboratory will cover an introduction to the characteristics of digital logic and the design, construction, testing and debugging of simple digital circuits. Corequisite: ELEN 303.

306. MICROPROCESSOR LABORATORY (Credit, 1 Hour) (Lab., 3 Hours). Experimental investigations of topics relevant to ELEN 304. The laboratory will cover a "hands-on" experience with the different types of microprocessors system studied in the ELEN 304 lecture course. Design, construction, testing, and structured programming techniques are emphasized. Corequisite: ELEN 304.

312. ENGINEERING ELECTRONICS I (Credit, 3 hours). An introduction to electronic devices, transistors, field-effect transistors, vacuum tubes, and solid state power control devices. A study of the characteristics, uses, and models for each and computer modeling of these employing ECAP or its equivalent. Pre-requisites: ELEN 209, 212. Co-requisite: ELEN 314.

313. ENGINEERING ELECTRONICS II (Credit, 3 hours). Covers equivalent circuits of devices, "h" parameters, frequency, and transient response of small signal amplifiers, introduction to communication systems, and computer modeling of electronic systems using SPICE or its equivalent. Prerequisite: ELEN 312. Co-requisite: ELEN 315.

314. ENGINEERING ELECTRONICS LAB I (Credit, 1 hour) (Lab, 3 hours). Presents experimental demonstration and investigation of topics in ELEN 312. A laboratory practical examination is administered and a laboratory project is required. Co-requisite: ELEN 312.

315. ENGINEERING ELECTRONICS LAB II (Credit, 1 hour) (Lab, 3 hours). Presents laboratory experiments related to topics in ELEN 313. Laboratory practical examination is administered and projects are required. Co-requisite: ELEN 313.

317. ENGINEERING USE OF COMPUTERS (Credit, 3 hours). Topics covered include the use of computers to model systems to solve typical engineering problems, including electrical and interdisciplinary problems. Numerical models and methods using FORTRAN and/or PL/1 are emphasized. Additional topics include roots of equations, matrix operations, differential equations solutions, and integration. Prerequisite: MATH 395.

325. ELECTROMAGNETIC FIELD THEORY LABORATORY (Credit, 1 hour) (Lab, 3 hours). Course involves the use of Smith Chart, familiarization with high frequency, UHF and microwave instrumentation, standing wave ratio, and impedance matching techniques. Co-requisite: ELEN 347.
341. ELECTROMAGNETIC FIELD THEORY (Credit, 3 hours). Topics include static electric and magnetic fields, transmission lines, and an introduction to Maxwell's equation. Prerequisite: ELEN 209.
342. ELECTRICAL MACHINERY I (Credit, 3 hours). Topics covered are the fundamentals of transformers and rotating machinery including both DC and AC machinery. Prerequisite: ELEN 341.
343. ELECTRICAL MACHINERY II (Credit, 3 hours). Covers steady state and dynamic characteristics of DC and AC machinery and energy conversion. Prerequisite: ELEN 342.
344. ELECTRICAL MACHINERY LABORATORY I (Credit, 1 hour) (Lab, 3 hours). Covers experiments related to topics in ELEN 342.
352. FUNDAMENTALS OF ELECTRICAL ENGINEERING (Credit, 3 Hours) (Lecture 3 hours). Theory and investigation of Topics in Electrical Engineering Fundamentals. Covers DC and AC electrical systems for non-electrical engineering majors. Prerequisite: MATH 265
390. SIGNALS AND SYSTEMS (Credit, 3 hours). Introduces students to signals and systems, system representation and analysis, representation of signals, transform methods in systems, and state space methods in systems analysis. Prerequisite: ENGR 340.
400. COMPUTER ARCHITECTURE (Credit, 3 hours). A study of the basic hardware building blocks from which computers are constructed. Topics include the structural organization and hardware design of digital computer systems, the physical organization of processors to include the ALU, registers, control circuitry, micro-operations, control and timing functions, register transfer language, and memory management techniques. Prerequisite: ELEN 304.
401. DIGITAL SYSTEMS I (Credit, 3 hours). Covers practical design using MSI components. Topics include a review of flip-flops and counters; the design of sequential networks using next state diagrams; flip-flops; timing diagrams; state reduction and state assignments; iterative networks; arithmetic controllers and networks; asynchronous sequential networks; and derivation and reduction of primitive flow tables, races, and hazards. This course also covers the design of microsequential controllers using counters, selectors, and decoders. Prerequisite: ELEN 303, CMPS 200, or permission of instructor.
402. PULSE CIRCUITS (Credit, 3 hours). Covers linear and non-linear wave-shaping techniques, logic families and their traits such as fanout, power dissipation, noise immunity and speed, bipolar multivibrators negative resistance devices, sweep waveforms, and D/A and A/D converters. Projects required. Prerequisite: ELEN 313. Co-requisite: ELEN 404.
403. DIGITAL SYSTEMS II (Credit, 3 hours). Examines the use of development systems and microprocessors needed to become experienced in assembly languages, higher level languages implemented on microprocessors, and debuggers. Students learn to implement hardware and software to design complete systems. Hardware interfacing problems discussed include memory expansion and the addition of UARTS and PIAS to interface plotters, A/D and D/A converters, and robotic arms. Software tools such as assemblers and protocol converters are developed in a group project format. Prerequisite: ELEN 304 or CMPS 302.
404. PULSE CIRCUITS LABORATORY (Credit, 1 hour) (Lab, 3 hours). Experimental investigation of topics in electrical engineering 402. Co-requisite: ELEN 402.
405. DIGITAL SIGNAL PROCESSING (Credit, 3 hours). Introductory course in digital signal processing. Topics include discrete-time description of signals, the f-transform, digital filter structures, infinite impulse response filter design techniques, finite impulse response design techniques, finite precision effects, and inverse filtering. Prerequisites: ELEN 340 and ELEN 390.

406. DIGITAL SIGNAL FILTER DESIGN LABORATORY (Credit, 1 hour). Examines the design digital filters to satisfy practical specification implementations of projects developed in ELEN 405. Co-requisite: ELEN 405.
409. COMMUNICATION ENGINEERING I (Credit, 3 hours). Examines amplitude, frequency and phase modulation, sampling and pulse modulation, time division multiplexing, detection and frequency mixing, filters, receivers, transmitters, and noise analysis. Prerequisite: ELEN 390.
412. COMMUNICATION ENGINEERING II (Credit, 3 hours). Covers analog and digital communication systems, information theory, and coding. Prerequisite: ELEN 409.
415. COMMUNICATION SYSTEMS LABORATORY (Credit, 1 hour) (Lab, 3 hours). Experiments and demonstration of basic sub-systems of communication systems including "RF" amplifiers, oscillators, detectors, modulators, transmitters, and receivers. Co-requisite: ELEN 409.
417. ADVANCED TOPICS IN ELECTRICAL ENGINEERING (Credit, 3 hours). Introduces advanced topics in various areas of electrical engineering. Projects and research papers are required. Prerequisites: Junior or senior standing and approval of instructor and department chair.
418. THEORY AND FABRICATION OF SOLID-STATE DEVICES (Credit, 3 hours). A study of the theory and fabrication of semiconductor devices including diodes, transistors, and integrated circuits. Prerequisite: ELEN 312.
419. INTEGRATED CIRCUIT DESIGN AND ANALYSIS (Credit, 3 hours). A study of integrated circuit technology. The physics of various devices considered along with fabrication techniques to provide a basis for circuit modeling, circuit analysis, and the comparison of devices on the basis of speed, reliability, power handling capability, economics, etc. Large-scale integrated logic circuits and linear integrated circuit design and application will be for integrated logic circuits and linear integrated circuits. Prerequisite: ELEN 313. ELEN 418 also recommended.
423. MICROWAVES (Credit, 3 hours). Examines Maxwell's equations for time-varying electromagnetic fields. Coaxial and strip lines, wave guides, and cavity amplifiers. Prerequisite: ELEN 347.
424. HYBRID COMPUTER SIMULATION (Credit, 3 hours) (Lec., and Lab, 3 hours). Covers analog, hybrid, and digital simulation and design of engineering systems. Prerequisite: ELEN 390.
431. CONTROL SYSTEMS ANALYSIS (Credit, 3 hours). Introduction to control systems, mathematical models, feedback control systems characteristics and stability, root locus, frequency responses, and stability in the frequency domain analysis. Prerequisite: ELEN 390.
432. DISCRETE CONTROL SYSTEMS (Credit, 3 hours). The fundamental aspects of discrete systems, including their state-variable representation and the z-transform are introduced and applied to the analysis and synthesis of sample data control systems. Included are discussions on pulse modulation, sampling, and computer control systems. Stability design and performance of discrete systems are considered. Prerequisites: ELEN 390, and 431.
433. CONTROL SYSTEMS LABORATORY (Credit, 1 hour) (Lab, 3 hours). Covers digital and analog simulation of systems and experimental determination of systems. Co-requisite: ELEN 431.
434. OPTIMIZATION TECHNIQUES (Credit, 3 hours) (Lec., 3 hours). The study of the optimal control of systems with and without constraints, to include the use of the Hamiltonian, Lagrange multipliers, the Euler-language equations, the quadratic criteria, the Riccati equation, and the formulation of an optimal control law. Prerequisite: ELEN 431.
435. CONTROL SYSTEMS DESIGN (Credit, 3 hours). Examines cascade compensation, minor-loop feedback compensation, design using Bodeplots, root locus, and Nichols Chart; design with state variable feedback; and introduction to optimal control systems. Prerequisite: ELEN 431.
442. POWER SYSTEMS ANALYSIS (Credit, 3 hours). Introduces power systems, per unit concepts, symmetrical components, and symmetrical and unsymmetrical faults on the transmission line. Prerequisite: ELEN 342.

460. TECHNOLOGY AND SOCIETY (Credit, 3 hours). Covers the application of engineering techniques to societal problems. Problems associated with transportation, economics, population, technology, employment, etc., are considered from an engineering viewpoint. Prerequisites: Engineering junior or senior with permission from the instructor.

463. POWER SYSTEMS DESIGN (Credit, 3 hours). Covers advanced topics in generation, distribution, and transmission related to power systems. Synthesis of various design topics will be treated. Prerequisite: ELEN 442.

464. MECHATRONICS (Credit, 3 hours). Examines computer control of electromechanical systems, automatic data acquisition, computerized instrumentation and testing. Also covers the embedded computers that might be a combination of microprocessors, micro-controllers, personal computers, and/or digital signal processors. Students are required to design, assemble, and test Actual systems. Prerequisite: ELEN 303. Co-requisite: ELEN 304 or permission of the instructor.

465. DIRECT ENERGY CONVERSION (Credit, 3 hours). Introduces direct energy conversion (historical review and future perspectives), energy storage transport phenomena in semi-conductors, semiconductor fabrication techniques, thermoelectric, thermionic and photovoltaic generators, magnetohydrodynamics, fusion, and fuel cells. Prerequisites: ELEN 312, 341 and ENGR 340.

471. NETWORK SYNTHESIS (Credit, 3 hours). Covers passive networks analysis, passive synthesis realizability, introductory filter concepts, sensitivity, basic active filter synthesis, positive and negative feedback, biquad circuits, ladder structures, and design optimization of active filters. Prerequisites: ELEN 209, 390.

472. COMPUTER COMMUNICATIONS SYSTEMS (Credit, 3 hours). Examines techniques and the characteristics of components and equipment utilized as interfaces between computers and peripheral equipment, DMA techniques, controllers, multiplexers, concentrators, parallel and series interfaces, data transmission, communication protocols, and associated software. Prerequisite: ELEN 304.

473. OPERATING SYSTEMS (Credit, 3 hours). Introduces the evolution and typical functions performed by a computer operating system, operating system evolution to include multiprocessing, batch, time-sharing, and personal computers. Process management, system management, file systems, interactive computation, and protection. Prerequisite: ELEN 400.

474. COMPUTER SYSTEMS LABORATORY (Credit, 1 hour) (Lab, 1 hour). A laboratory to give the student practical experience in advanced computer techniques. Prerequisite: ELEN 306. Corequisites: ELEN 400 or 473. Must have permission of the instructor.

475. COMPUTER NETWORKS (Credit, 3 hours). Presents the study and design of computer networks to include protocols, network interfacing, network performance, etc. Prerequisite: Senior standing or approval of instructor.

476. COMPUTER NETWORK LAB (Credit, 1 hour). Laboratory arranged to implement networks that are designed in ELEN 475.

490. ELECTRICAL DESIGN LAB I (Credit, 1 hour) (Lab, 3 hours). Laboratory setting that presents planning, designing, and executing various experimental projects. Prerequisites: Senior standing in electrical engineering and consent of instructor.

493. SENIOR DESIGN PROJECT I (Credit, 1 hour). Topics covered include contemporary design steps and methodology relating to electrical engineering systems and subsystems. Designs and specifications are developed for at least two design projects. The projects emphasize team involvements. One of these projects will be chosen for further development and implementation in ELEN 494. Prerequisites: Senior standing and approval by the instructor and the department chair.

494. SENIOR DESIGN PROJECT II (Credit, 2 hours). Students will demonstrate the ability to perform independent and creative work by successfully completing a major design project. The projects emphasize team involvements. Instructor approval of projects required. Prerequisite: ELEN 493.

**ELECTRONIC BUSINESS (EBIZ)**

312. PURCHASING AND MATERIALS MANAGEMENT (Credit, 3 hours). Principles of purchasing and materials management applicable to manufacturing and service organizations, including policies, procedures, new product development, make-or-buy decisions, sourcing, pricing, contracts, negotiation, special purchases, legal and ethical consideration, inventory, and other related topics. Prerequisite: MGMT 300. NOTE: A student may not receive credit for this course and MGMT 312 OR MKT 312.

340. MANAGEMENT OF BUSINESS DATABASES (Credit, 3 Hours) This course provides a solid and practical foundation for the design, implementation and management of databases used in the corporate world. The topics covered include relational database model, entity-relationship model, structured query language, and database administration. Prerequisites: MGMT 300, CMPS 290.

341. DEVELOPMENT OF BUSINESS INFORMATION SYSTEMS (Credit, 3 Hours) This course provides an understanding of the system development and modification process of computer information systems used in businesses. The topics covered include data flow diagrams, structured design, user interface design, and system implementation. Prerequisites: MGMT 300, CMPS 290.

342. ADVANCED BUSINESS SOFTWARE PACKAGES (Credit, 3 Hours) This course provides an understanding of contemporary software packages used in businesses. The students will acquire a working knowledge of software tools used in various applications such as database management and enterprise resource planning systems. Prerequisites: MGMT 300, CMPS 290.

410. SUPPLY CHAIN MANAGEMENT (Credit, 3 Hours) This course examines contemporary issues in the management and integration of raw material procurement, inventory management, and finished goods delivery. The topics covered include planning and managing inventories, transportation, network design, and financial factors influencing supply chain decisions. Prerequisites: MGMT 300, CMPS 290.

440. DECISION SUPPORT FOR MANAGEMENT (Credit, 3 Hours) This course provides an understanding of how information technology can

be used to provide solutions to business problems. The topics covered include decision support systems, expert systems, and executive information systems. Prerequisites: MGMT 300, CMPS 290.

441. ELECTRONIC COMMERCE (Credit, 3 Hours) This course provides an understanding of how electronic commerce has affected all aspects of the corporate world. The topics covered include information superhighway, World Wide Web, the Internet, and organizational applications of electronic commerce. Prerequisites: MGMT 300, CMPS 290.

442. BUSINESS-TO-BUSINESS E-COMMERCE (Credit, 3 Hours) This course provides an understanding of the importance of electronic commerce to procurement process. The topics covered include electronic bidding process, business-to-business auctions, and e-commerce facilitated supply chain management. Prerequisites: MGMT 300, CMPS 290.

443. BUSINESS DATA COMMUNICATIONS AND SECURITY (Credit, 3 Hours) This course provides an understanding of the importance of data communications and network security for e-business. The topics covered include physical aspects of data communications, common carrier services, firewalls, and network security. Prerequisites: MGMT 300, CMPS 290.

444. ON-LINE PAYMENT SYSTEMS AND SECURITY (Credit, 3 Hours) This course provides an understanding of electronic payment systems and network security. The topics covered include digital token-based systems, smart cards, designing of on-line payment systems, firewalls, and network security. Prerequisites: MGMT 300, CMPS 290.

445. LOGISTICS AND TRANSPORTATION SYSTEMS (Credit, 3 hours). This course provides an understanding of the design and management of supply chain operations in selected logistic settings. Particular emphasis is placed upon the areas of traffic management, carrier operations, carrier selection and contract negotiation, and warehousing. Each area is analyzed in terms of organizational differences, operational processes, variations in information needs, and performance control mechanisms. Prerequisites: MGMT 300.

446. ENTERPRISE RESOURCE PLANNING (Credit, 3 hours). The course is designed to provide the students with a comprehensive understanding of Enterprise Resource Planning systems (ERP) which are used to integrate an organization's operations and processes effectively and efficiently. The implications of ERP systems on organizational structure, processes, and people's working practices are discussed. Extensive hands-on experience with the SAP R/3 system is provided. Prerequisite: MGMT 300.

455. INTERNET MARKETING (Credit, 3 Hours) This course is a study of the Internet as a channel for marketing communications and transactions, particularly, how online marketing (Internet Marketing) is integrated into the overall enterprise-wide marketing strategies. The course examines the management issues involved in the implementation of Internet marketing strategies to solve business problems. Prerequisites: MKTG 300 and CMPS 290.

### **ELECTRONICS ENGINEERING TECHNOLOGY (EENT)**

110. DC CIRCUIT ANALYSIS (Credit, 3 hours) (Lec., 3 hours). Introductory course to circuit analysis purely from a dc approach. The methods and concepts are discussed in detail for direct current networks. Series and parallel circuits, Ohms law, Kirchhof's current and voltage law, capacitors, and inductors. Prerequisites: MATH 135.

111. DC CIRCUIT ANALYSIS LABORATORY (Credit, 1 hour) (Lab, 3 hours). A laboratory study of selected topics studied in EENT 110. Concurrent with EENT 110.

210. AC CIRCUIT ANALYSIS (Credit, 3 hours) (Lec., 3 hours). A continuation of EENT 110 that is a study of basic electrical components and network theorems in alternating-current circuits including resonance and AC power. Prerequisites: EENT 110.

211. AC CIRCUIT LABORATORY (Credit, 1 hour) (Lab, 3 hours). A laboratory study of selected topics studied in EENT 210. Prerequisites: EENT 111. Concurrent with EENT 210.

212. ELECTRONIC CIRCUITS I (Credit, 3 hours) (Lec., 3 hours). Covers the theory and structure of semiconductor devices, the analysis and design of rectifiers and their filters, and the development of the theory and technique of circuit bias for BJT. Basic troubleshooting techniques are also introduced. Prerequisite: MATH 140. Concurrent with EENT 210.

213. ELECTRONIC CIRCUITS LABORATORY I (Credit, 1 hour) (Lab, 3 hours). Covers selected experiments illustrating theory covered in EENT 212. Concurrent with EENT 212. Prerequisite: EENT 111.

216. ELECTRONIC CIRCUITS II (Credit, 3 hours) (Lec., 3 hours). Topics covered included biasing of BJTs and FETs, DC and AC equivalent circuits, analysis and design of small and large signal low frequency amplifiers, coupling techniques, multistage amplifiers, power derating, and decibel units. Prerequisite: EENT 212, MATH 140.

217. ELECTRONIC CIRCUITS LABORATORY II (Credit, 1 hour) (Lab, 3 hours). Presents experiments illustrating theory covered in EENT 216. Multisim EWB simulation applications are included. Prerequisite: EENT 213. Should be taken concurrently with EENT 216.

220. DIGITAL LOGIC DESIGN (Credit, 3 hours) (Lec., 3 hours). Designed to introduce number system conversions, logic gates and their truth tables, Boolean law and theorems, Karnaugh simplification maps, Sum-of-Products and Product-of-Sums methods, etc. The use of algebraic and geometric techniques are covered to enable students to design efficient, reliable, and cost-effective combinational and sequential arithmetic and data processing circuits and memories. Prerequisite: EENT 212.

221. DIGITAL LOGIC DESIGN LABORATORY (Credit, 1 hour) (Lab, 3 hours). Covers selected experiments illustrating theories covered in EENT 220. Prerequisite: EENT 213. Should be taken concurrently with EENT 220.

230. ADVANCED CIRCUIT ANALYSIS (Credit, 3 hours) (Lec., 3 hours). Course is a con-

tinuation of EENT 210. The topics include power, resonance, filter and bode plots, pulse wave forms, polyphase systems, transformers, non-sinusoidal circuits, and an introduction to system analysis and differential equations with circuit analysis applications. Prerequisite: EENT 210.

250 COOPERATIVE EDUCATION (Credit, 3 Hours). Beginning at the sophomore year, a student may enroll in a work study program which permits alternate work and study periods.

310. ANALOG COMMUNICATIONS (Credits, 3 hours). Topics covered include tuned-circuits, filters, noise sources, and designation, RF feedback amps and oscillators; amplitude and frequency modulation and demodulation, AM and FM transmitter and receiver system theory, stereo FM, television, single-side band transmission and reception, and other forms of AM. Prerequisites: EENT 216, MATH 264.

311. ANALOG COMMUNICATIONS LABORATORY (Credit, 1 hour) (Lab, 3 hours). Presents selected lab experiments illustrating theory covered in EENT 310. Prerequisite: EENT 217

314. LINEAR INTEGRATED CIRCUITS (Credit, 3 hours) (Lec., 3 hours). Presents a study of linear integrated circuits application including operational amplifiers, voltage regulators, differential amplifiers, and timer circuits. The OP AMP applications will include comparator, linear amplifier, active filters, and wave generators, the DC and AC performance and limitations of OP AMP, and Pspice applications. Prerequisites: EENT 216, MATH 264.

315. LINEAR INTEGRATED CIRCUITS LABORATORY (Credit, 1 hour) (Lab, 3 hours). Presents selected lab experiments illustrating theory covered in EENT 314. Prerequisite: EENT 217. Co-requisite: EENT 314.

316. MICROPROCESSORS (Credit, 3 hours). Presents an introduction to a balanced view of the inner world of the architectural technology of microprocessors and microprocessor support components, microcomputer systems development from the hardware and software aspects, design of memory and I/O devices interface with the CPU. I/O con-

trol techniques, and data transfer techniques, are among the subjects of discussion covered in this course of study. Prerequisite: EENT 220.

317. MICROPROCESSORS LABORATORY (Credit, 1 hour) (Lab, 3 hours). Presents selected lab experiments illustrating theory covered in EENT 316. Several projects are included to demonstrate microprocessor usage in the solution of real world problems. Prerequisite: EENT 221. Co-requisite: EENT 316.

330. SEMICONDUCTOR DEVICE PROCESSING (Credit, 3 Hours) (Lec., 3 Hours) Lecture and/or discussions on basics of physics of semiconductors. Topics emphasizing semiconductor process operations in the fabrication of integrated circuits will be covered. Student will become familiar with the terminology used in the semiconductor industry. Student will write a term paper on a specific process operation and make a power-point presentation. Prerequisite: EENT 216 and MATH 264.

360. ELECTRICAL MACHINERY (Credit, 3 hours) (Lec., 3 hours). Topics covered include the fundamentals of transformers and rotating machinery including both DC and AC machines. Prerequisite: EENT 210, MATH 264.

361. ELECTRICAL MACHINERY LABORATORY (Credit, 1 hour) (Lab, 3 hours). Presents experiments relating to topics covered in EENT 360. Prerequisite: EENT 211. Concurrent with EENT 360.

370. FUNDAMENTALS OF SIGNALS AND DATA PROCESSING (Credit, 3 hours). This course will review the foundation of continuous time systems and introduces the concepts and analysis tools associated with signal spectra, with emphasis on periodic signals and Discrete Fourier Transforms. Prerequisites: MATH 265, and EENT 210.

371. FUNDAMENTALS OF SIGNALS AND DATA PROCESS LABORATORY (Credit, 1 hour) (Lab, 3 hours). Students will be introduced to Matlab with application in signals and systems. Students will write Matlab codes to simulated concepts learned in the lecture.

380. COMPUTER SYSTEMS TECHNOLOGY (Credit, 3 hours). The course will cover the history and evolution of the Personal Computer from the original IBM PC to current implementations. Computer components will be examined and how they contribute to the whole system will be investigated. The functions of the various operating systems will also be covered. Prerequisites: EENT 316.

381. COMPUTER SYSTEMS TECHNOLOGY LABORATORY (Credit, 1 hour) (Lab, 3 hours). Laboratory exercises implementing the theory from the lecture segment will be assigned. Computer components will be examined, assembled, and investigation of how they contribute to the total system explored. The functions of various operating systems will also be covered. Prerequisite: EENT 317.

390: DIGITAL COMMUNICATIONS (Credit, 3 hours)(Lec., 3 hours). In this course student will study communication systems which includes spectral analysis and noise, amplitude and frequency modulation, pulse modulation, PAM-TDM system, Pulse-Coded modulation, Time and Frequency division multiplexing, ASK, FSK, PSK, QAM, DSL, ADSL, Multiple access techniques, Satellite communication System, Digital cellular system, and Personal communication system. Prerequisite: EENT 216 and MATH 264.

391. DIGITAL COMMUNICATIONS LAB (Credit, 1 hour) (Lab, 3 hours). Selected experiments relating to the theory covered in the lecture course EENT 390. Co-requisite: EENT 390.

392. LINES, WAVES, AND ANTENNAS (Credit, 3 hours). Covers propagation of RF signals through transmission lines, wave guide theory, different modes for propagation of radio waves in space, and theory and types of antennas. Prerequisite: EENT 216, MATH 264.

404. ADVANCED ELECTRONICS CIRCUIT ANALYSIS and DESIGN (Credit, 3 hours). Covers semiconductor diode theory, DC and AC equivalent circuits, analysis and design of biasing circuits of BJT and FET, DC and AC load lines, maximum symmetrical output analysis, h-parameters for BJT, analysis of: CE, CC, CB, and multistage amps, coupling techniques, low and high frequency response of R-C Coupled CE and CS

amps, Bode Plots, design of CE and CC amps, and Pspice applications. Prerequisites: EENT 216 and MATH 264.

450. CONTROL SYSTEM TECHNOLOGY (Credit, 3 hours) (Lec., 3 hours). Presents control systems; a survey of the field with emphasis on problems, current solutions, and analytical methods; and Matlab applications relating to control systems problems. Prerequisites: EENT 216 and MATH 265.

460. PROGRAMMABLE LOGIC CONTROLLERS (Credit, 3 hours)(Lec., 2 hours; Lab, 2 hours). A thorough exploration of programmable logic controllers including history, evolution, and current implementations. The control logic and sensor technologies are described. In the laboratory, the students will explore industrial type applications of PLCs. Prerequisite: EENT 220.

479. ADVANCED TOPICS IN DIGITAL SIGNAL PROCESSING (Credits, 3 hours) (Lec., 3 hours). Covers current issues in digital signal processing and the related areas. Prerequisites: EENT 370, EENT 371.

480. COMPUTER NETWORKING (Credit, 3 hours). Presents coverage of current and evolving networks which may involve computers (Ethernet, Token Ring, FDDI, ATM, etc.); an explanation of each type of network covered; an overall understanding of what is required (hardware and software) to design, build, install, maintain, and support the networks discussed; two network operating systems; network monitoring; troubleshooting; measurement of network signals; and patterns. Prerequisite: EENT 390

481. COMPUTER NETWORKING LABORATORY (Credit, 1 hour) (Lab, 3 hours). Involves experimental implementation of the theory covered in EENT 480 and the installation and administration of two network operating systems emphasized in EENT 480. Laboratory exercises as well as field experiences are provided. Corequisite: EENT 480.

486. COMPUTER SECURITY and DATA PROTECTION (Credit, 3 hours) (Lec., 2 hours;

Lab, 3 hours). Covers PC and workstation physical and electronic security, security considerations in an open user environment (i.e. university), network security, virus protection, and information security. Prerequisites: EENT 480.

489. ADVANCED TOPICS IN COMPUTER TECHNOLOGY (Credit, 3 hours). Surveys current and evolving topics in computer technology and related areas. Topics vary. Prerequisite: EENT 316.

490. FIBER-OPTIC COMMUNICATIONS (Credit, 3 hours). Surveys fiber optic technology as applied to communication systems, Snell's Law and total reflection of light, various types of optical fibers and attenuation and dispersion in them, light sources, detectors, optical connectors, fiber-optic communication systems-analog and digital; and power-budget and fiber-optic LANs. Prerequisites: EENT 390 and PHYS 142.

491. FIBER-OPTICS COMMUNICATIONS LAB (Credit, 1 hour) (Lab, 3 hours). Presents selected lab experiments illustrating theory covered in EENT 490. Co-requisite: EENT 490.

492. WIRELESS COMMUNICATION SYSTEMS (Credit, 3 Hours) (Lec., 3 Hours) To provide students with the knowledge of wireless communication technologies, including Mobile Radio Propagation, Cellular Radio System, Multiple Radio Access, Channel Allocation, Frequency Reuse and Cellular Topology, Mobile Communication Systems, Handoff Strategies, Multicasting, Security and Privacy, Wireless Systems AMPS, IS-41, GSM, PCS, IS-95, IMT-2000, Bellman-Ford Routing Algorithm, TCP over Wireless, Ad Hoc and Wireless Sensor Networks, WLAN, WMAN, WPAN. Prerequisite: EENT 390.

494. SENIOR ELECTRONICS DESIGN PROJECT I (Credit, 2 hours)(Lec., 2 hours). Project design methodology, management, and documentation will be discussed. The students will form teams for this course and for the follow-on course-EENT 496. The design project will be chosen and the preliminary research and specifications will be developed. The course culminates with the presentation of the design proposal. Prerequisites: EENT 316, EENT 360.

495. ADVANCED TOPICS IN COMMUNICATION (Credit, 3 hours). Current topics in electronic communication not regularly covered in other courses will be offered. Topics will vary with time and interest. Prerequisites: EENT 390, MATH 265.

496. SENIOR ELECTRONICS DESIGN PROJECT II (Credit, 3 hours) (Lec., 2 hour; Lab, 2 hours). The continuation of the prerequisite course EENT 494. The chosen project will be built, tested, and presented in a final oral presentation as well as a final written report. An activity journal documenting the progress towards successful completion of the project will also be kept and checked weekly. Prerequisite: EENT 494.

## ENGINEERING (ENGR)

120. FRESHMAN ENGINEERING I (Credit, 2 Hours) (Lecture 2 hours). Course is designed to introduce engineering and technology as a profession, the engineering design process and its application to problem solving and engineering ethics. Prerequisite: High school trigonometry.

130. FRESHMAN ENGINEERING II (Credit, 2 Hours). This course will provide students with the knowledge and skills to develop programs in structured and object-oriented computer language to solve basic engineering problems. Course materials cover the fundamentals of algorithm design, structured programming, and programming style in C++. Prerequisites: ENGR 120 and MATH 135.

230. TECHNICAL COMMUNICATIONS (Credit, 2 Hours) Principles of composition, rhetoric, and document design applied to the basic genres of research-based scientific and technical writing, including the report, proposal, manual, resume, and professional correspondence. Prerequisite: ENGL 110.

320. PROBABILITY AND STATISTICS (Credit, 2 Hours). This course focuses on introduction to probability theory, discrete and continuous probability distributions, descriptive and inferential statistics, autocorrelation and cross correlation, regression, functions of random variables, analysis of variance, stochastic processes, and statistical modeling of engineering problems and their implications on quality. Prerequisite: MATH 265.

**340. ENGINEERING MATHEMATICS** (Credit, 3 hours). This course focuses on the application of advanced mathematics techniques in the solution of practical engineering problems, which will include: Topics in linear algebra like matrix and vector operations, Eigenvalue problems, Fourier series, Fourier Transforms, and Laplace Transforms. Prerequisite: MATH 395.

**400. ENGINEERING SEMINAR** (Credit, 1 Hour) (Discussion, 1 Hour). This course covers lecture and/or discussion groups to bring students into direct contact with various aspects of engineering practices and philosophy. There will also be some discussions on ethics, professional registration, consulting activities and employment. Prerequisite: Must be a senior in engineering, or have the approval of the instructor. Prerequisite: Senior Standing.

**491. SPECIAL PROJECTS** (Credit, 1 hour). This course covers interdisciplinary topics from civil, electrical, mechanical engineering, and electrical technology. Each student is to work on an individual project or participate in a team project in collaboration with a faculty advisor. Prerequisite: Senior standing.

**492. SPECIAL PROJECTS** (Credit, 2 hours). This course covers interdisciplinary topics from civil, electrical, mechanical engineering, and electrical technology. Each student is to work on an individual project or participate in a team project in collaboration with a faculty advisor. Prerequisite: Senior standing

**499. ENGINEERING PRACTICE** (Credit, 3 hours). Beginning at the junior year, students may enroll in a work-study program which permits them to alternate between semesters work and study periods. Approval of the instructor /advisor is advised before enrolling in the course. Application of Co-op credit toward graduation may vary from department to department and relies on the total experience obtained.

## **ENGLISH (ENGL)**

Note: English 110 and 111 or equivalent are prerequisites for all English courses at and above the 200-level. Non-majors are encouraged to enroll in any sophomore-level course numbered 201 through 207 to fulfill the English literature requirement and should obtain permission from professors teaching courses at or above the 300 level prior to enrolling in such courses. In certain cases, prerequisites may be waived for 400-level courses with permission of instructor.

**090. DEVELOPMENTAL ENGLISH** (Credit, 3 hours). Focus on writing skills considered essential for success in college-level courses. Review of standard English: grammar, sentence structure, punctuation, capitalization, and spelling. Includes practical application of these conventions through sentences and, ultimately, the paragraph. Requires mandatory laboratory participation. (For students with a standard score of 17 and below on the English area of the ACT and 440 and below on the English area of the SAT.)

**110/111. FRESHMAN COMPOSITION** (Credit, 3 hours each). Emphasis on writing as a learning, thinking process. Discussion of and practice in strategies used in prewriting, writing, and revising expressive, informative, analytical and argumentative essays. Special sections designated for honors students.

**200. INTRODUCTION TO LITERATURE** (Credit, 3 hours). Study of literary types and themes with emphasis on the relationships between form and idea. Prerequisites: ENGL 110, 111. For English majors and minors.

**201. WORLD LITERATURE** (Credit, 3 hours). Thematic or chronological study of selected masterworks of world literature from classical antiquity to the present. Prerequisites: ENGL 110, 111.

**203. INTRODUCTION TO AFRICAN-AMERICAN LITERATURE** (Credit, 3 hours). Survey of African-American literature of the 20th century, with introduction to the works that reflect major historical and cultural trends of African-American people. Prerequisites: ENGL 110, 111. For non-majors.

204. INTRODUCTION TO FICTION (Credit, 3 hours). Study of the short story and the novel with emphasis on the relationships between form and idea in major western world writers. Emphasis on writing in response to readings and discussions of the genre. Prerequisites: ENGL 110, 111.
205. INTRODUCTION TO DRAMA (Credit, 3 hours). Study of drama with emphasis on writing in response to readings and discussions of the genre. Prerequisites: ENGL 110, 111.
206. INTRODUCTION TO POETRY (Credit, 3 hours). Study of poetry with emphasis on writing in response to readings and discussions of the genre. Prerequisites: ENGL 110, 111.
207. INTRODUCTION TO SCIENCE FICTION (Credit, 3 hours). Study of science fiction short stories and novels. Emphasis on relationships between science and culture and possibilities of social change. Writings in response to readings and discussions. Prerequisites: ENGL 110, 111.
208. PRACTICAL WRITING AND VOCABULARY BUILDING (Credit, 3 hours). Enhancement of writing skills with practice and improvement of vocabularies through an intensive study of English words, origins, meanings, pronunciation, and usage in speech and writing. Prerequisites: ENGL 110, 111.
261. COMPUTER APPLICATIONS FOR ENGLISH MAJORS (Credit, 3 hours). Introductory course in computer theory, operations, and use of application software. Emphasis on creation and production of documents relating to composition and language skills for use in the classroom and community. Extensive hands-on training using Windows operating systems. Prerequisites: ENGL 110, 111. For English majors and minors.
301. GRAMMAR REVIEW (Credit, 3 hours). Refresher course emphasizing a systematic approach to the basics of standard English. Includes conventions of written English, inflectional forms, and basic sentence structure. Prerequisites: ENGL 110, 111. For non-majors and minors.
305. APPLIED ENGLISH GRAMMAR (Credit, 3 hours). Study of modern English grammatical systems as applied to major forms of discourse.
- Prerequisites: ENGL 110, 111. For English majors and minors.
- 308/309. ENGLISH LITERATURE I & II (Credit, 3 hours each). Survey of representative works and major developments in English literature from Beowulf to the 20th century. Prerequisites: ENGL 110, 111, and one literature course.
- 310/311. AMERICAN LITERATURE I & II (Credit, 3 hours each). Survey of American literature from its origins to contemporary times, with emphasis on the major writers and literary developments. Prerequisites: ENGL 110, 111, and one literature course.
313. AFRICAN-AMERICAN LITERATURE (Credit, 3 hours). Intensive study of writings by African-Americans set against historical and cultural backgrounds. Prerequisites: ENGL 110, 111, and one literature course.
330. RESTORATION AND EIGHTEENTH CENTURY LITERATURE (Credit, 3 hours). Study of the Neo-classical spirit in English literature from 1660 to 1798. Prerequisites: ENGL 110, 111, and one literature course.
350. ENGLISH ROMANTICISM (Credit, 3 hours). Study of the spirit and temper of the Romantic period in English literature as seen in representative works of outstanding poets and prose writers. Prerequisites: ENGL 110, 111, and one literature course.
351. VICTORIAN POETRY AND PROSE (Credit, 3 hours). Focus on the spirit and temper of the Victorian period as seen in representative works of outstanding poets and prose writers. Prerequisites: ENGL 110, 111, and one literature course.
360. CREATIVE WRITING (Credit, 3 hours). Workshop for apprentice writers to explore basic concepts and techniques of writing fiction, poetry, and drama. Prerequisites: ENGL 110, 111, and one literature course.
362. TECHNICAL WRITING (Credit, 3 hours). Practice in writing narration, description, exposition, and argumentation as they apply to the preparation of reports, memoranda, and other technical documents. Prerequisites: ENGL 110, 111, and junior or senior status.

400. FOLKLORE (Credit, 3 hours). Contextual study of various forms of folklore in oral tradition, the method of folklore investigation, and the relationship of folklore to literature. Prerequisites: ENGL 110, 111, and one literature course.
401. ADVANCED WRITING (Credit, 3 hours). Study of the principles of effective prose writing. Intensive practice in the writing, evaluating, and revising of compositions. Prerequisites: ENGL 110, and 111, and one literature course.
404. LITERATURE IN FILM (Credit, 3 hours). Concentration on selected works of literature adapted to film. Emphasizes the psychological, social, and political implications of such works. Prerequisites: ENGL 110, 111, and one literature course.
406. WOMEN AND LITERATURE (Credit, 3 hours). Study of literature by and about women. Attention to thematic, aesthetic, and stylistic treatment in a selected body of such literature. Prerequisites: ENGL 110, 111, and one literature course.
407. AFRICAN-AMERICAN LITERATURE OF THE SOUTH (Credit, 3 hours). Study of African-American writers, both major and minor, of the South. Prerequisites: ENGL 110, 111, and 203 (non-major) or 313 (major).
413. MODERN AFRICAN-AMERICAN PROSE FICTION (Credit, 3 hours). Analysis of major trends in the development of African-American fiction and poetry from Richard Wright to the present. Prerequisites: ENGL 110, 111, and 203 (non-major) or 313 (major).
415. MULTICULTURAL AMERICAN LITERATURE (Credit, 3 hours). Focus on significant African-Americans, Native Americans, Mexican Americans, and Asian Americans set against historical and cultural backgrounds. Prerequisites: ENGL 110, 111, and one literature course.
420. THE NOVEL (Credit, 3 hours). Study of a major trend in the development of the novel of England, Europe, or America. Prerequisites: ENGL 110, 111, and one literature course.
433. HISTORY OF THE ENGLISH LANGUAGE (Credit, 3 hours). Survey of the historical development of the English language from its beginnings to the present: native and foreign elements; changes in inflection, pronunciation, vocabulary, meaning. Prerequisites: ENGL 110, 111, and 305.
451. LITERARY CRITICISM (Credit, 3 hours). Introduction to the theories and applications of literary criticism. Prerequisites: ENGL 110, 111, 308, 309, 310, and 311.
470. CHAUCER (Credit, 3 hours). Intensive study of Chaucer in Middle English. Prerequisites: ENGL 110, 111, 308, and 309.
471. SHAKESPEARE (Credit, 3 hours). Study of selected Shakespearean plays in light of Renaissance culture and its modern significance. Prerequisites: ENGL 110, 111, 308, and 309.
480. MILTON (Credit, 3 hours). Focus on the poetry and prose of Milton within the context of literary history and the background of Milton's age. Prerequisites: ENGL 110, 111, 308, and 309.
485. THE BLACK WRITER (Credit, 3 hours). Intensive study of works by and about one major writer of the African diaspora within the context of cultural significance and literary trends. Prerequisites: ENGL 110, 111, and 203 (non-major) or 313 (major).
491. CONTEMPORARY ENGLISH LITERATURE (Credit, 3 hours). Study of representative British writers of the latter half of the twentieth century. Prerequisites: ENGL 110, 111, 308, and 309.
492. CONTEMPORARY AMERICAN LITERATURE (Credit, 3 hours). Study of representative writers in 20th century American literature beginning with the post-World War II era. Prerequisites: ENGL 110, 111, 310, and 311.
498. ENGLISH SEMINAR (Credit, 3 hours). A study of selected works from classical, British, and American literatures with an emphasis on reinforcing literary concepts; interrelating and synthesizing ideas; improving test-taking skills; enhancing oral, written, research, and computer skills; and identifying and discussing contemporary issues in literature seminar functions as a capstone course for all English liberal arts majors. Prerequisite: Senior status as an English liberal arts major.

## **FAMILY AND CONSUMER SCIENCES (FCSC)**

### **140. ORIENTATION TO FAMILY AND CONSUMER SCIENCES (Credit, 2 hours).**

Team-taught. Designed to give an overview of family and consumer sciences with emphasis on the history and development of the land-grant system and exploration of current and future issues that impact families and consumers and the role that the land-grant university plays in advanced study, careers, and better employment.

### **200. PROFESSIONAL ISSUES IN FOOD, NUTRITION, AND DIETETICS (Credit, 1 hour).**

Career alternatives; standards affecting practice in food, nutrition, and dietetics; strategies for future practice. Observation of food and nutrition professionals in various positions.

### **220. FUNDAMENTALS OF FOOD (Credit, 3 hours)(Lec., 2 Hour; Lab., 3 hours).**

Applications of basic principles in the selection, preparation and management of food. Food in different cultures.

### **230. ESSENTIALS OF NUTRITION AND WELLNESS (Credit, 2 hours).**

Emphasis on health promotion and wellness. Current nutrition and health issues; nutrition needs and approaches to meeting these needs for individuals. Application of contemporary nutrition research to improve health. Not accepted for credit toward a concentration in food and nutrition or a major in nursing. Can serve as an alternate to fulfill the General Education requirement of health/physical education.

### **250. PRINCIPLES OF ART AND DESIGN ANALYSIS (Credit, 3 hours) (Lec., 1 hour; Lab., 4 hours)**

Fundamental principles of art and design elements. Special analysis and evaluation of color, structural, and decorative designs of textiles, apparel, and household items with an introduction to computer-aided design.

### **302. APPAREL CONSTRUCTION AND EVALUATION (Credit, 3 hours)(Lec., 1 hour; Lab., 4 hours).**

Basic techniques of apparel construction applicable to contemporary fibers and fabrics and evaluating the principles and techniques of quality construction in ready-to-wear and custom-made apparel.

**304. FASHION MERCHANDISING (Credit, 3 hours).** A general overview of the retail merchandising area. Focuses on fundamental principles and practices related to the production and merchandising of fashion apparel, accessories and other products.

**307. COMPUTER APPLICATION IN DESIGN (Credit, 3 hours) (Lec., 1 hour; Lab., 4 hours).** Use and application of CADD (Computer-Aided Design and Drafting). Emphasis includes apparel design, architectural drafting, space planning, and two- and three-dimensional representation.

**309. APPAREL SELECTION (Credit, 3 hours).** Selection of clothing with an emphasis on principles and elements of design, fabrics attributes, body configuration, professional wardrobe planning, and focus on clothing for children, the family, the elderly, and clothing for persons with special needs.

**315. FAMILY MANAGEMENT (Credit, 3 hours).** Theories and principles involved in decision making in family life with an overview of problems faced by consumers and an emphasis on the roles of consumers in the marketplace, sources of help, information to aid in buying, and using commodities based on resources and values.

**320. FOOD SCIENCE (Credit, 3 hours)(Lec., 1 hour; Lab., 3 hours).** Technological advances, chemical and physical structure of food and the effect of processing and preparation on food and the effect of processing and preparation on food structure and food quality. Emphasis is placed on subjective and objective food evaluation techniques and food quantity control. A food processing project is required. Prerequisite: FCSC 220, CHEM 128, 129, or 132 and 133.

**321. FOOD PROCESSING (Credit, 4 hours)(Lec., 2 hour; Lab, 4 hours).** Unit operations in food preservation. Methods of food processing, packaging, and storage. Materials handling, plant hygiene, water supplies, and waste disposal. Food raw materials and processing.

322. QUANTITY FOOD PRODUCTION AND MANAGEMENT (Credit, 3 hours)(Lec., 2 hour; Lab., 3 hours). Menu planning and preparation of food in quantity for commercial and institutional use; standardization of methods, portions, cost, and service for optimum nutritional value and aesthetic appeal; safety, sanitation, and work process analysis. Prerequisite: FCSC 220, and BIOL 230.

332. HUMAN NUTRITION (Credit, 3 hours)(Lec., 2 hours; Lab., 2 hours). Basic principles of nutrition. Physiological and biochemical bases for nutrient need; factors to consider in meeting these needs. Prerequisites: CHEM 128, 129, 130, 131, or 132, or 133.

336. NUTRITION AND HUMAN GROWTH AND DEVELOPMENT (Credit, 3 hours)(Lec., 2 hour; Lab., 2 hours). Nutrient requirements across the lifespan. Nutritional genomics and physiological outcomes during human development and aging. The assessment of nutritional status in healthy individuals. Laboratory experiences in food composition and assessment of dietary intake, body composition, and biochemical indices of nutritional status. Prerequisite: FCSC 332.

340. TEXTILES (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). A study of the physical and chemical properties of textiles and their components as they relate to care, performance, and consumer satisfaction.

344. NUTRITION AND HUMAN PERFORMANCE (Credit, 3 hours). Study of nutrition and energy for exercise; food nutrients and optimal nutrition for physical performance; body composition and weight control; and physiological conditioning for total fitness. Prerequisite: FCSC 332.

345. FOOD SERVICE SYSTEMS I (Credit, 3 hours)( Lec., 2 hour; Lab., 3 hours). The food service operations concept with emphasis on the integration of human and material resources for various types of quantity food service systems. Computer applications in food service systems. Prerequisite: FCSC 220, 345.

346. FOOD SERVICE SYSTEMS II (Credit, 3 hours) (Lec., 2 hour; Lab., 3 hours). The food service systems concept with emphasis on the function and application of managerial and administrative principles to food service operations. Food facilities planning and design and equipment selection; sanitation in food service. Prerequisite: FCSC 220, 345.

350. SENSORY EVALUATION OF FOODS (Credit, 3 hours)(Lec., 1 hour; Lab., 3 hours). Introduction to sensory perception and the methods used for studying the sensory qualities of food. Analysis and interpretation of data from sensing test. Correlation of subjective and objective tests.

351. HISTORY OF FASHION (Credit, 3 hours). Historical development of fashion from ancient time to the 20th Century. Factors (social, economic, cultural, and political) associated with origin, adoption, and adornment.

354. APPAREL PRODUCTION AND PROMOTION (Credit, 3 hours). Evaluation of fabrics, construction techniques and the production process of fashions; promotion strategies (visual and non-visual) and analysis of the finished product.

375. CHILD DEVELOPMENT (Credit, 3 hours). An intensive study of child growth and development from conception to age eight with emphasis on physical, mental, and social development. Twenty-four hours of observation and participation required.

395. FUNDAMENTALS OF FAMILY FINANCIAL PLANNING (Credit 3 hours). This course introduces students to the various financial planning topics that face families such as the financial planning process, family/planner interactions, time value of money applications, personal financial statements, cash flow and debt management, asset acquisition, and education planning. Risk management, investment planning, retirement planning, plan integration, and ethics are also discussed.

397. INSURANCE PLANNING FOR FAMILIES (Credit 3 hours). This course introduces students to risk management and insurance decisions in family financial planning. Topics include

insurance for life, health, disability, property and liability risks, as well as annuities, group insurance, and long term care.

399. RETIREMENT PLANNING FOR FAMILIES (Credit 3 hours). The intent of the retirement planning course is to provide individuals with knowledge of both public and private retirement plans. The public plans include Social Security, Medicare, and Medicaid. The private plans include defined benefit and defined contribution plans and their regulatory provisions. The specifics of the various plans are analyzed as well as non-qualified deferred compensation plans. Finally, issues that individuals face in retirement, such as lifestyle choices and medical issues are discussed.

405. TEXTILE EVALUATION (Credit, 3 hours) (Lec., 1 hour; Lab., 4 hours). Physical and chemical testing of textiles used for households and apparels; specific emphasis on aesthetic, comfort, and functional performance characteristics. Prerequisite: FCSC 340.

410. ADVANCED HUMAN NUTRITION (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). The interrelationship of nutrition and physiological and biological functions and physiological and biological functions in man; status assessment, and nutritional diseases. Prerequisites: FCSC 332, 336, CHEM 234, and BIOL 238.

412. APPAREL AND HUMAN BEHAVIOR (Credit, 3 hours). An exploration of cultural and social-psychological approaches to the study of apparel and people's response to the use of apparel in relation to behavior and culture.

414. QUALITY ASSURANCE AND REGULATIONS (Credit, 3 hours)(Lec., 1 hour; Lab., 3 hours). Food industry functions, processes, and techniques used to provide quality assurance for the food industry. Regulatory policies and criteria of food protection. Resources necessary for communication with government on public food policy information.

422. EXPERIMENTAL FOODS (Credit, 4 hours)(Lec., 2 hour; Lab., 3 hours). The application of objective and subjective techniques in defining the problem and testing the hypothesis in carefully designed food experiments and analyzing, interpreting, and reporting results. Planning, executing, and reporting of an independent

research problem is required. Prerequisite: FCSC 220, 222, CHEM 234, 250 and BIOL 230.

425. FOOD AND BEVERAGE MANAGEMENT (Credit, 3 hours)(Lec., 2 hour; Lab., 3 hours). Discussion and preparation of elegant gourmet foods in an institutional setting for regular food plans and or those requiring modifications according to one's health, religion, or cultural specifications. Prerequisite: FCSC 220, 221, 322, or consent of Division.

429. SEMINAR AND RESEARCH IN FOOD AND NUTRITION AND DIETETICS (Credit, 1 hour). Discussion and reporting of current literature and research in food, nutrition, dietetics and related areas. Research methodology and statistical analysis. Prerequisite: FCSC 345, 346, 410, and SPTH 210.

432. MULTICULTURAL FOOD PATTERNS (Credit, 2 Hours). Interdisciplinary approach to the study of food practice of different populations.

433. NUTRITION FOR CHILDREN (Credit, 3 hours). Discussion and application of nutrition principles, current findings in nutrition science and nutrition education toward promoting sound nutrition practices throughout the developmental period.

435. MEDICAL NUTRITION THERAPY I (Credit, 3 hours) (Lec., 3 hours; Lab, 2 hours). Nutritional assessment drug/nutrient interactions; pathophysiology of selected chronic disease states and associated medical problems and relevant nutrition therapy. Application of Medical Nutrition Therapy Principles. Prerequisites: FCSC 332, 336, 410, CHEM 234, and BIOL 238 and 239.

436. MEDICAL NUTRITION THERAPY II (Credit, 3 hours) (Lec., 3 hours; Lab, 2 hours). Pathophysiology of selected acute and chronic disease states and associated medical problems and relevant nutrition therapy. Application of Medical Nutrition Therapy Principles. Prerequisite: FCSC 336, 410, 435, CHEM 234, and BIOL 238 and 239.

439. FOOD AND NUTRITION COMMUNICATIONS (Credit, 3 hours)(Lec., 2 hours; Lab., 2 hours). Communication of food and nutrition

information with emphasis on current trends. Nutrition counseling techniques. Prerequisites: PSYC 210, FCSC 332, 336, 410.

442. GLOBAL TRENDS IN APPAREL BUY-MANSHIP (Credit 3, hours). Global trends and economic factors of production, distribution, and buying apparel merchandising. Prerequisite: FCSC 304.

444. APPAREL MARKETING AND ANALYSIS (Credit, 3 hours). Detailed investigations and analysis of the principles and procedures involved in the planning, buying, and selling of merchandise. Includes specific activities that impact upon profit and loss of business and industry. Prerequisite: FCSC 304 and 442.

450. FIELD EXPERIENCE (Credit, 3 hours). Planned experience for application of basic principles, theories, and current concepts gained through course work in food and nutrition in selected facilities and agencies. Experience individualized according to the emphasis of students. Designed to give students first-hand experience in the world of work. Prerequisite: FCSC 322, 345, 346, 435, 439, 495.

460. FOOD AND INDUSTRIAL MICROBIOLOGY (Credit, 4 hours) (Lec., 1 hour; Lab 3 hours). Industrial uses and pathogenic effects of yeast, molds, and bacteria. Commercial production of yeast, yeast products, baker's yeast, and alcohol production. Citric acid enzymes and soy source production. Food spoilage, food infection, and food poisoning. Lactic acid bacteria, fermented foods of plant origin, principles of vinegar production, butanol-acetone fermentation, waste water treatment, and microbial preservatives.

462. CURRENT TRENDS IN APPAREL MERCHANDISING AND TEXTILE SCIENCE (Credit 3, hours). Professional aspects and trends in apparel merchandising and textile science, involving the investigation and analysis of special topics. Prerequisite: senior standing and consent of instructor.

464. INTERNSHIP (Credit, 3 hours). Supervised practical experience in an approved retail establishment. Supervised by the Division and selected personnel. Prerequisites: senior standing, designated major courses, and consent of faculty and cooperating site.

470. CHILD GUIDANCE (Credit, 3 hours). The study of basic development principles, research findings, and techniques in guiding the behavior of infants and young children. The role of play and play materials in the development and guidance of young children is explored. Observation and participation required.

471. FOOD ENGINEERING (Credit, 3 Hours) (Lec., 1 hour; Lab, 3 hours). Applications of engineering principles to various operations in food processing. Engineering units, thermodynamics, fluid flow, psychrometry, heat transfer, refrigeration, and process control.

477. METHODS AND PROCEDURES IN TEACHING YOUNG CHILDREN (Credit, 3 hours). An overview of the essentials needed for successful involvement with children at the pre-school and kindergarten levels, including the philosophy of education for young children, curriculum, personnel, equipment, skills, and methods of working with young children and their families. Prerequisites: FAML 375 or consent of the Program Leader and faculty member; Senior standing with no more than 15 hours needed to meet requirements for graduation.

478. PRACTICUM: TEACHING YOUNG CHILDREN (Credit, 3 hours). Observation and participation in the total program of a nursery school, day care, or head start center of kindergarten. The application of theories and principles from child development courses to actual situations. Prerequisite: FCSC 477; Senior standing with no more than 15 hours needed to meet requirements for graduation.

479. PARENT EDUCATION (Credit, 3 hours). An exploration of the role of parents in preparing young children to cope with the changing world and to develop into well-rounded, mature citizens.

480. FOOD DESIGN, MERCHANDISING AND CATERING (Credit, 3 hours)(Lec., 2 hours; Lab, 3 hours). Discussion, demonstration, styling and presentations in catering merchandising techniques of various foods for selected occasions; organization of a catering business; garnishing and selection of equipment for food design. Prerequisite: FCSC 220, 345, 346.

481. FAMILY AND CONSUMERS SCIENCES PRESPECTIVES (Credit, 2 hours). Professional aspects, philosophical base, and trends in the field of family and consumer sciences; performance requirements, position procurement, and specific professional concerns. Prerequisite: Graduating senior status/consent of instructor.

483. CONSUMER ISSUES (Credit, 3 hours). An overview of problems faced by consumers with emphasis on the roles of the consumer in the marketplace, sources of help, information to aid in buying, and using commodities based on resources and values.

485. INVESTMENT PLANNING FOR FAMILIES (Credit 3 hours). This course provides the student with an understanding of the various types of securities traded in financial markets, investment theory and practice, portfolio construction and management, and investment strategies and tactics to meet a family's investment goals.

487. INCOME TAX PLANNING FOR FAMILIES (Credit 3 hours). This course is an overview of current tax laws, income tax principles, and taxation terminology. It focuses on tax planning considerations, computations, and tax planning strategies including tax pitfalls that impact families' financial planning.

489. ESTATE PLANNING FOR FAMILIES (Credit 3 hours). This course focuses on the efficient conservation and transfer of wealth, consistent with the family's goals. It is a study of the legal, tax, financial and non-financial aspects of this process, covering topics such as trusts, wills, probate, advanced directives, charitable giving, family wealth transfers and related taxes.

490. FAMILY RELATIONSHIPS (Credit, 3 hours). The effects of family interaction upon individual development with emphasis upon courtship, marriage, family, and interpersonal relationship throughout the family life cycle. Development of positive self-esteem is emphasized.

491. FOOD QUALITY CONTROL AND ANALYSIS (Credit, 3 hours)(Lec., 1 hour; Lab, 3 hours). Composition and chemical properties of food components; evaluation and utilization of analytical methods to examine raw and processed foods.

492. HEALTH AND SAFETY OF YOUNG CHILDREN (Credit, 3 hours). An overview of the importance of providing a healthy, safe environment for the young child. A synthesis of how all factors relating to the child's healthy growth and development affect the quality of later life. Childhood diseases and the relationship of health of the parents, siblings are explored. Creating a healthy, safe environment for the young child is emphasized. Observation and participation required.

494. FOOD CHEMISTRY (Credit, 3 hours) (Lec. 2 hours; Lab, 2 hours). Chemistry of carbohydrates, lipids, proteins, enzymes, water, salts, and food dispersions. Reactions occurring during handling, processing, packaging, and storage of raw and processed foods.

495. COMMUNITY NUTRITION (Credit, 3 hours) (Lec., 3 hours; Lab, 2 hours). Using a global perspective to identify public health nutrition problems in nutritionally vulnerable individuals and groups. Planning, implementing, and evaluation of programs. Designing and conducting nutrition surveys of small population groups. Prerequisites: FCSC 332, 336 and 410.

496. SANITATION IN FOOD PROCESSING (Credit, 2 hours). Safe manufacturing practices in the food industry and the role of contaminants in food spoilage. Hazard analysis and critical control points, as well as methods of cleaning and preventing contamination and spoilage.

497. SPECIAL TOPICS IN FAMILY AND CONSUMER SCIENCES (Credit, 3 hours). Study in areas of Family and Consumer Sciences not otherwise treated in depth in available courses. Emphasis will be placed on study tours, special laboratories and classes, directed individualized study, and emerging trends in Family and Consumer Sciences. Prerequisites: Permission of the Associate Dean in the Division of FCS. The course may be repeated-when the topic changes-for a maximum of 6 credit hours per student.

498. PROBLEMS IN FOOD SERVICE SYSTEMS (Credit, 3 hours) (Lec., 3 hours; Lab., 2 hours). Development and organization of food service information systems. Laws relating to ownership and operation of food service establishments. The responsibility of management and employees to guests and the public.

Intensive work on specific problems in food service management. Discussion and analysis is of food service case studies.

499. INDEPENDENT STUDY (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Directed individual study of selected topics in dietetics, nutrition, management, and food science.

501. PREPROFESSIONAL PRACTICE: MEDICAL NUTRITION THERAPY (Credit, 3 hours) (Lec., 2 hours; Prac., 32 hours). Supervised practice in clinical nutrition and community nutrition to meet the registration eligibility requirements of the American Dietetic Association. May be repeated for three hours credit. Prerequisite: B.S. degree in Food and Nutrition/Dietetics from an approved Didactic Program in Dietetics and admission to the Dietetic Internship.

502. PREPROFESSIONAL PRACTICE: FSM (Credit, 3 hours) (Lec., 2 hours; Lab, 32 hours). Supervised practice in food system management to meet the registration eligibility requirements of the American Dietetic Association. May be repeated for three hours credit. Prerequisites: B. S. degree in Food and Nutrition/Dietetics from an approved Didactic Program in Dietetics and admission to the Dietetic Internship.

## FINANCE (FINC)

130. PERSONAL FINANCE (Credit, 3 hours). Personal financial management of budgets, savings, credit, insurance, taxes, and investments, including discussion of rental or home purchases, planning for retirement, and estate distribution. A free elective.

131. INTRODUCTION TO TRADING FINANCIAL ASSETS. Study the fundamental concepts of fixed income securities, equities, and financial derivatives, explore the simple pricing models, and apply the concepts and pricing models to various trading simulation cases, such as stocks, bonds, options, futures, and other financial derivatives. A free elective.

330. MANAGERIAL FINANCE I (Credit, 3 hours). Study of the principles, practices and techniques of financial management with emphasis on business enterprises, including: working capital

management, financial analysis, forecasting, planning and control, courses of short and long-term capital, time value of money, capital budgeting, institutional environment of the firm and other related topics. Prerequisites: ACCT 201 and ECON 210

347. PRINCIPLES OF REAL ESTATE (Credit, 3 hours). Study of principles of real estate appraisal, market analysis, home ownership, investment, brokerage, selling contracts, property right, and other relevant topics. Prerequisites: FINC 330.

351. FINANCIAL STATEMENT ANALYSIS (Credit, 3 hours). Emphasis on the end results of reporting and interpreting these results to aid in decision-making. Topics include ration analysis, impact of inflation on financial statements, and correlations of book value to market value. Prerequisites: FINC 330.

390. COMMERCIAL BANKING (Credit, 3 hours). A study of banking industry and structure, bank assets and liabilities management, banking competition, and capital adequacy and profitability. Prerequisites: FINC 330.

430. MANAGERIAL FINANCE II (Credit, 3 hours). In-depth study of financial management topics including risk analysis and portfolio theory, cost of capital, sources of long-term corporate capital, capital structures, leverage, dividend policy, mergers and acquisitions, business reorganizations, international financial management, and other related topics. Computer software will be used. Prerequisites: FINC 330.

432. CAPITAL BUDGETING (Credit, 3 hours). An examination of the analytical methods used to evaluate the economic worth of capital investments. The course focuses on capital budgeting under uncertainty and in imperfect market and includes topics such as capital rationing, inflation, leasing, and strategic management. Prerequisites: FINC 330.

435. RISK AND INSURANCE (Credit, 3 Hours). Study of principles and practices of insurance, including risk management and risk analysis; property, liability, life and health insurance; underwriting and pricing; organizations and administration of insurers; the insurance contract; and the influence of public policy and government regulation. Pre-requisites: junior standing

436. INVESTMENTS (Credit, 3 Hours). Characteristics of investments media, investment planning and programming, investment management, sources of information security analysis, portfolio theory and other relevant topics. Computer software will be utilized. Prerequisites: ECON 275 and FINC 330.

437. PORTFOLIO ANALYSIS (Credit, 3 Hours). Portfolio diversification analysis is developed in its classical form in single and multi-index models for obtaining correlation structures between securities. The standard capital asset and arbitrage pricing models are also presented, as are topics on international diversification and evaluation of portfolio performance. Portfolio based software will be used. Prerequisites: FINC 436.

438. DERIVATIVE SECURITIES (Credit, 3 Hours). Application of contingent claims analysis to futures, options, swaps, hybrid securities, and options on futures. Topics include futures and options markets, instruments, uses, and prices. Special attention is given to program trading, portfolio insurance, hedging, and duration issues. Prerequisites: FINC 330 and FINC 436.

448. REAL ESTATE FINANCE (Credit, 3 Hours). Analysis of alternative financing methods and techniques available to the real estate investor, mortgage portfolio management; effect of debt financing on the risk, return, and value of equity investment; influence of government in the operations of the mortgage market and housing finance. Prerequisites: FINC 330 and FINC 347.

451. FINANCIAL INSTITUTIONS AND CAPITAL MARKETS (Credit, 3 Hours). Studies of various money and capital markets and their composition, operation and regulations. Determinants of savings and interest rates, flow of funds and portfolio selection and security pricing. Prerequisites: ECON 210 and FINC 330.

481. INTERNATIONAL FINANCE (Credit, 3 Hours). Study of international financing of exports, imports, investment; the operation of international institutions and money and capital markets; the function of foreign exchange markets in arbitrage and hedging. Prerequisites: FINC 330.

494. INTERNSHIP IN FINANCE (Credit, 3 Hours). Course offers opportunity to engage in a finance-related working experience through on-the-job work assignments with business firms and governmental agencies. Finance students spend 12 hours per week in on-site fieldwork. Prerequisites: Permission of the department chair.

497. INDEPENDENT STUDY IN FINANCE (Credit, 3 Hours) Faculty-supervised study offers students the opportunity to undertake independent research on finance subject matter not covered by formal course, or to participate in specialized topical projects related to the emerging problems and contemporary issues of finance. Prerequisites: Permission of the department Chair and by the college dean.

## **FRENCH (FREN)**

100.ELEMENTARY FRENCH I (Credit, 3 hours) Introduction to elementary structures in the French Language. Emphasis on listening comprehension, Pronunciation, basic vocabulary, and grammar skills. Classroom work is extended and enhanced by carefully coordinated student use of laboratory facilities for oral comprehension and pronunciation exercises, vocabulary acquisition, grammar, and spelling exercises. Lab attendance required.

101. ELEMENTARY FRENCH II (Credit, 3 hours). Continuation of FREN 100 with increased emphasis on reading and writing activities. Continued use of computer lab self-tutorials. Lab attendance required. Prerequisite: FREN 101 or credit exam.

200. INTERMEDIATE FRENCH I (Credit, 3 hours). Continuation of FREN 101. Completion of the introduction of basic grammar structures. Additional work on speaking and listening comprehensive skills through extensive practice with video and audio cassettes. Continued use of computer lab self-tutorials. Lab attendance required. Prerequisites: FREN 100-101, or two years high school French. Honors college students who complete the 200-201 sequence will receive honors credit.

201. INTERMEDIATE FRENCH II (Credit, 3 hours). Course designed to develop reading and writing skills. Students read a variety of literary and cultural texts as models of written expression. Weekly laboratory attendance and written assignments required. Prerequisite: FREN 200 or equivalent.

202. FRENCH PHONETICS (Credit, 3 hours). The study of basic French sounds and phonetic transcription. Prerequisites: FREN 200 or equivalent.

214. CODE 1 - FRENCH FOR BUSINESS (Credit, 3 hours). This is the first course in a series designed to introduce the Business major/minor and/or French major/minor to the world of business, in order to better prepare them for a globalized economy and job market. Prerequisites: NONE.

215. CODE 1 - FRENCH FOR BUSINESS (Credit, 3 hours). This is the second course in a series designed to introduce the Business major/minor and/or French major/minor to the world of business in order to better prepare them for a globalized economy and job market. Prerequisites: FREN 214 or Department permission.

219. INTERMEDIATE FRENCH CONVERSATION (Credit, 3 hours). Speaking and comprehension developed around a core of cultural materials and topics representative of the countries in which the target language is spoken. Lectures will feature illustrative films, slides, recordings, audio, video, and computer laboratory assignments. Prerequisite: FREN 200 or equivalent.

255. ADVANCED FRENCH GRAMMAR (Credit, 3 hours). Intensive review of French grammar and syntax. Compositions, translations, laboratory work, oral drills and written exercises. Prerequisite: FREN 201 or equivalent.

300. INTRODUCTION TO READINGS IN FRANCOPHONE LITERATURE (Credit 3 hours.) Course designed to give students vocabulary necessary for literary study and analysis. Lectures on the different genres in literature, readings in French, class discussions, and compositions. Prerequisite: FREN 200-201.

301. FRENCH CIVILIZATION (Credit, 3 hours). A survey course examining the history and culture of France and Francophone countries through readings, discussions, compositions, lectures, and special projects. Prerequisite: FREN 201 or equivalent.

304. SURVEY OF FRENCH LITERATURE I (Credit, 3 hours). An introduction to the study of French literature from the Middle Ages through 1800. Lectures on the history of French literature to supplement readings, discussions, and compositions in French. Prerequisite: FREN 300.

304. SURVEY OF FRENCH LITERATURE II (Credit, 3 hours). A continuation of the study of French literature from 1800 to present. Prerequisite: FREN 304 or equivalent.

360. FRANCOPHONE AFRICAN HISTORY AND CULTURE. The general aims of the course are to identify and implement instructional strategies and materials that focus on students' understanding and appreciation of the diverse cultural groups in a pluralistic society. The specific aim of the course is to provide an overview of Francophone culture and civilization with particular emphasis on the historical and cultural conditions and contributions of the descendants of Africans. Prerequisite: None. This course will be taught in English, and will serve as a French elective for French majors and minors, and can also serve as a Humanities elective for students university-wide.

380. ADVANCED FRENCH CONVERSATION AND COMPOSITION (Credit, 3 hours). An intensive course in colloquial French designed to increase the student's Vocabulary as well as the ability to speak rapidly and correctly, and understand French spoken at a normal rate of speed. Laboratory work in addition to regular classroom sessions. Prerequisite: FREN 219.

401. SEVENTEENTH CENTURY FRENCH DRAMA (Credit, 3 hours). A survey of the Drama of the 17th century with emphasis on Corneille, Racine, and Moliere. Prerequisites: FREN 304-305.

402. NINETEENTH CENTURY FRENCH NOVEL (Credit, 3 hours). A general study Of 19th century literature using representative texts from the periods. Prerequisites: FREN 304 - 305.

403. TWENTIETH CENTURY FRENCH LITERATURE (Credit, 3 hours). A general study of 20th century literature using representative texts from the period. Prerequisites: FREN 304-305.

407. FRANCOPHONE LITERATURE. (Credit, 3 hours). A study of fictional and non-fictional writings of French writers outside France. Prerequisite: Department Permission.

408. FRENCH LITERATURE OF THE MIDDLE AGES AND THE RENAISSANCE (Credit, 3 hours). Lectures and readings from the *Chanson de Roland* to Montaigne. Prerequisite: Department Permission.

410. SPECIAL TOPICS IN FRENCH (Credit, 3 hours). Recognition, analysis, and resolution of Linguistic, literary, cultural, and pedagogical topics. May be taken for a maximum of six hours credit when topics vary. Prerequisite: Department Permission.

460. SECOND LANGUAGE METHODOLOGY (Credit, 3 hours). Course introduces students to the field of applied linguistics and second language research. Students develop skills in analyzing second language data produced by learners of English, Spanish, French, German, Chinese, and other foreign languages. Taught in English. Permission from Department.

### **FRESHMAN STUDIES (FRMN)**

110. FRESHMAN SEMINAR (Credit, 1 hour). Course provides opportunity for students to further develop cognitive skills and to adjust personally and socially to the college environment. The development of group counseling activities facilitate intrapersonal and interpersonal communication skills. Required of all freshmen unless otherwise instructed by University College.

111. FRESHMAN SEMINAR (Credit, 1 hour). The second phase of freshman seminar designed to provide information necessary for career planning and to offer a general overview of the world of work. Course offers the student the opportunity to examine and evaluate self, interests, careers, abilities, and goals. Required of all freshmen unless otherwise instructed by University College.

115. READING (Credit, 3 hours). The course is designed to help students meet the demands and understand the common elements of reading in the content areas. The course is an overview of the skills which are common to all content areas. FRMN 115 is considered a free elective and can be used towards a degree credit where applicable.

### **GEOGRAPHY (GEOG)**

210. Cultural Geography (Credit, 3 hours). Area studies of peoples of the world and their settlement characteristics; and evaluation of origins, dispersals, population, and settlement patterns.

221. Principles of Geography (Credit, 3 hours). An introduction to some of the tools and techniques of geography and to some of the factors and concepts of physical and cultural geography.

### **GERMAN (GERM)**

100. ELEMENTARY GERMAN I (Credit, 3 hours). Introduction to elementary structures in the German language. Emphasis on listening comprehension, pronunciation, basic vocabulary, and grammar structures necessary for developing oral proficiency skills. Classroom work is extended and enhanced by use of laboratory facilities for oral comprehension and pronunciation exercises, vocabulary acquisition, grammar, and spelling exercises. Lab attendance required.

101. ELEMENTARY GERMAN II (Credit, 3 hours). Continuation of GERM 100 with increased emphasis on reading and writing activities. Lab attendance required. Prerequisites: GERM 100 or credit exam.

200. INTERMEDIATE GERMAN I (Credit, 3 hours). Continuation of GERM 101. Completion of the introduction of basic grammar structures. Additional work on speaking and listening comprehension skills through extensive practice with video and audio cassettes. Continued use of computer lab self-tutorials. Lab attendance required. Prerequisites: GERM 101 or credit exam.

201. INTERMEDIATE GERMAN II (Credit, 3 hours). Designed to develop reading and writing skills. Students read a variety of literary and cultural texts as models of written expression. Weekly laboratory attendance and written assignments required.

204. SCIENTIFIC GERMAN (Credit, 0 hours). Reading and translating German scientific texts. For students specializing in the sciences.

499. READINGS IN GERMAN (Credit, 0 hours). Designed for persons who expect to take a graduate reading examination.

### HEALTH (HLTH)

110. PRINCIPLES OF HEALTH (Credit, 2 hours). Emphasis on health science as related to personal and community living.

200. GENERAL SAFETY (Credit, 3 hours) History, principles, and analysis of major personal, school, and community safety problems.

210. FIRST AID AND PERSONAL SAFETY (Credit, 2 hours). Course covers symptoms, causes, prevention, and first aid care of victims of accidents and sudden illnesses. Red Cross certification possible.

240. ORIENTATION TO HEALTH AND SAFETY (Credit, 2 hours). A general introductory course emphasizing the history and principles of health and safety and their relation to general education.

304. METHODS AND MATERIALS OF ELEMENTARY AND SECONDARY SCHOOL HEALTH (Credit, 3 hours). Designed for prospective elementary and secondary teachers. Principles, methods, materials, and programs in health and physical education are presented at various grade levels.

310. INTRODUCTION TO DRUG ABUSE EDUCATION (Credit, 3 hours). Prerequisite: Junior or senior standing. Person outside of the department may take the course with permission of the advisor and department chair.

360. SCHOOL COMMUNITY HEALTH (Credit, 3 hours). Course considers the nature, scope, and objectives of school and community health programs. The role of school personnel in promoting school-community relations and in solving basic health problems is stressed.

365. HUMAN SEXUALITY (Credit, 3 hours). Course helps the student develop a healthy outlook on sex. Covers the biological, philosophical, psychological, and sociological aspects of sexuality and how to communicate this information to school children on the secondary level.

490. PROBLEMS IN HEALTH AND SAFETY (Credit, 3 hours). Major health and safety problems individual research project. Prerequisite: Senior standing.

### HEALTH SCIENCES (HLSC)

The following courses in health sciences are offered by the School of Nursing and are open to majors and non-majors. These courses are not a part of the nursing major requirements and are offered as part of the school's health teaching and health counseling function and for students who wish to pursue elective studies in the health sciences.

120. ORIENTATION TO HEALTH AND NURSING CAREERS (Credit, 2 hours). A seminar which provides the opportunity to explore various health and nursing careers within the scope of higher education. This course is a substitute for FRMN 110 and 111.

122. SUCCESS IN NURSING (Credit, 3 hours). Course designed specifically to assist the student in utilizing all resources to achieve academic success in nursing. Assessment of individual learning styles, development of study formats, time and stress management as well as motivation techniques and pathways to critical thinking will be included.

202. AIDS - A Nation in Crisis (Credit, 3 hours). Overview of impact of AIDS on health care and society.

307. CULTURAL DIVERSITY IN HEALTH (Credit, 3 hours). Focuses is on understanding cultural differences. Students are provided opportunities to analyze health needs from a cultural perspective.

432. ISSUES OF AGING (Credit, 3 hours). Designed to give the student a broad perspective on aging, and promote positive attitudes toward the elderly. Concepts and issues related to the aged discussed.

460. SPIRITUALITY IN HEALTH (Credit, 4 hours)(Lec., 3 hours; Clinical, 3 hours). Exploration of the role of spirituality in health care, quality of life and decision-making through a multidisciplinary problem-based and experiential approach to learning. Students will have the opportunity to explore spiritual

parameters of health outside their existing ways of knowing and link with community members in the provision of holistic care among vulnerable and marginalized communities.

## **HISTORY (HIST)**

104. AMERICAN HISTORY (Credit, 3 hours). A survey of American history from the European settlement of North America to 1865.

105. AMERICAN HISTORY (Credit, 3 hours). A continuation of HIST 104 with emphasis upon the period from 1865 to the present.

114. HISTORY OF CIVILIZATION (Credit, 3 hours). A survey of world civilization from prehistoric time to circa 1500.

115. HISTORY OF CIVILIZATION (Credit, 3 hours). A continuation of HIST 114 with emphasis on civilization from 1500 to the present.

224. HISTORY OF THE UNITED STATES (Credit, 3 hours). A broad examination of the major political, social, and economic movements and philosophies that contributed to American thought and development from colonial times to 1865.

225. HISTORY OF THE UNITED STATES (Credit, 3 hours). A continuation of HIST 224 with emphasis upon the period from 1865 to the present.

230. LOUISIANA HISTORY (Credit, 3 hours). A survey of colonial and antebellum Louisiana with emphasis on the relationship of these periods to problems and issues facing the state today.

235. INTRODUCTION TO AFRICAN-AMERICAN STUDIES (Credit, 3 hours). An interdisciplinary survey of the black experience in the United States.

306. AMERICAN MILITARY HISTORY (Credit, 3 hours). A survey of the military history of the United States from the American Revolution to the present.

311. AFRICAN-AMERICAN HISTORY (Credit, 3 hours). A survey of the history of African Americans in the United States from their African background to the present. Emphasis on the changing status of African Americans and their contribution to the American society.

320. HISTORY OF THE FAR EAST (Credit, 3 hours). A survey of Oriental history. Emphasis given to internal developments and intercultural action of one country upon another.

325. HISTORY OF THE CIVIL RIGHTS MOVEMENT (Credit, 3 hours). An examination of the Civil Rights Movement in the United States with emphasis on its origins, goals, philosophies, events, tactics, organizations, and personalities.

354/355. AMERICAN CONSTITUTIONAL HISTORY (Credit, 3 hours each). Constitutional development from 1781 to the present. Emphasis on executive, legislative, and judicial evolution as they affect the social economic system of the United States.

385. CONTEMPORARY LATIN AMERICA (Credit, 3 hours). Current domestic problems and international issues confronted by the republic of Latin America.

400. INTRODUCTION TO THE STUDY OF HISTORY AND WRITING IN THE SOCIAL SCIENCES (Credit, 3 hours). Designed for education majors with a concentration in history. Course provides the students the opportunity to study and write interpretively about major events and issues.

401. HISTORY OF AFRICAN-AMERICANS TO 1877 (Credit, 3 hours). An intensive study of African Americans to the end of Reconstruction in 1877.

403. AMERICAN DIPLOMATIC HISTORY (Credit, 3 hours each). An examination of the United States relationship with the rest of the world from the Declaration of Independence to the present.

404. THE HISTORY OF SCIENCE (Credit, 3 hours). An analysis of scientific thought from the ancient Orient to the present.

405. ANCIENT EGYPT (Credit, 3 hours). A survey of the historical and archaeological records of ancient Egypt, including Nubian and Kemetan (Egyptian) culture, to the Roman conquest.

410. CIVIL WAR AND RECONSTRUCTION (Credit, 3 hours). A study of the causes of the Civil War, problems of both the North and South during the War, and problems of Reconstruction.

414. HISTORIOGRAPHY (Credit, 3 hours). Fundamentals of historical research and writing.
419. HISTORY OF AFRICAN-AMERICAN EDUCATION IN AMERICA (Credit, 3 hours). Examination of the education of black America from 1619 to the present. Emphasis placed on major events and personalities shaping black educational experiences in the United States.
420. READINGS AND PROBLEMS IN HISTORY (Credit, 1-3 hours). Independent selected study offered for special programs or projects.
422. SECTIONAL CONTROVERSIES IN THE UNITED STATES (Credit, 3 hours). An intensive review of the social, political, and economic issues that led to the division within the United States and eventually caused the Civil War.
423. HISTORY OF THE NEW SOUTH (Credit, 3 hours). An intensive study of the South since Reconstruction.
430. A CULTURAL AND SOCIAL HISTORY OF LOUISIANA (Credit, 3 hours). A survey of Louisiana cultures and the political, social, and economic forces that helped to shape them. Prerequisite: HIST 230.
463. INDIANS OF NORTH AMERICA (Credit, 3 hours). A historical and anthropological survey of the Indians of North America with one-half of the semester devoted to a study of native American culture and the other half devoted to the relations between the federal government and Indian tribes. Fall.
474. HISTORY OF EUROPE (Credit, 3 hours). A detailed narrative of characteristic and institutional development from the Italian Renaissance to Napoleon's Waterloo.
475. HISTORY OF MODERN EUROPE (Credit, 3 hours). Continuation from Waterloo to the present with emphasis on Europeanization of the world.
481. HISTORY OF RUSSIA (Credit, 3 hours). A study of Russian history from earlier times to present.
482. EUROPEAN IMPERIALISM (Credit, 3 hours). A study of colonial and modern imperialism and the impact of neocolonialism.
483. HISTORY OF EAST AFRICA (Credit, 3 hours). A study of ancient, colonial, and modern East Africa.
484. PROBLEMS IN AMERICAN SOCIAL AND INTELLECTUAL HISTORY SINCE 1900 (Credit, 3 hours). Major social and intellectual problems in American life and thought.
485. PROBLEMS IN POLITICAL AND DIPLOMATIC HISTORY SINCE 1900 (Credit, 3 hours). Emphasis on the rise of the United States as a dominant world power and advent of the Great Society.
486. AFRICAN-AMERICANS IN THE TWENTIETH CENTURY (Credit, 3 hours). An intensive study of the changing economic, social, and political status of African-Americans since 1900.
487. HISTORY OF THE MIDDLE EAST (Credit, 3 hours). A study of the Middle East from the rise of Islam to modern times.
488. URBAN HISTORY (Credit, 3 hours). A survey of urban development in the United States from the early colonial towns to the 20th century megalopolis.
490. HISTORY OF WOMEN IN AMERICA (Credit, 3 hours). An examination of shifts in the perception of women's roles from a social, political, economic, and intellectual perspective.
- 491/547. HISTORY OF SOUTH AFRICA (Credit, 3 hours each). Aims to outline, clarify, and amplify socio-economic and political developments in the Cape region after the European intrusion and their repercussions to the modern era.
- 493/548. AFRICAN CIVILIZATIONS IN LATIN AMERICA (Credit, 3 hours each). An examination of the culture, politics, economy, and other social aspects of black people in Latin America from the voyages of Columbus to the present.
- 494/545. AFRICAN HISTORY (Credit, 3 hours each). A study of the history of Africa from pre-historic times to circa 1800.
- 495/546. AFRICAN HISTORY (Credit, 3 hours each). A continuation of HIST 494, 545 with emphasis on African history from 1800 to the present.
496. AFRICAN-AMERICAN WOMEN IN AMERICA (Credit, 3 hours). A study of the history of the African-American female in America from the Colonial period to the Civil War.

497. AFRICAN-AMERICAN WOMEN IN AMERICA (Credit, 3 hours). A continuation of HIST 496 with emphasis on the African-American female in America from Reconstruction to the present.

499/550. WEST AFRICAN HISTORY (Credit, 3 hours). A survey of West African history from 1000 A.D. to the present.

### **HUMANITIES (HUMN)**

241. THREE ARTS: ELEMENTS AND PRINCIPLES (Credit, 3 hours). An interdisciplinary study of the visual arts, music, and theatre from the creative point of view.

242. THREE ARTS IN HISTORY (Credit, 3 hours). An interdisciplinary study of the visual arts, music, and theatre from a historical perspective.

244. STUDIES IN COMPARATIVE LITERATURE: A CULTURAL APPROACH (Credit, 3 hours). An interdisciplinary course designed to introduce students to literature, foreign languages, music, and geography. Selected Italian, Spanish, African, French, English, Spanish, and American writers from the Renaissance, Neoclassical, Romantic, and Modern periods will be studied.

366. RACE RELATIONS (Credit, 3 hours). Course designed to address a multiracial audience derived from the student bodies of Louisiana State University and Southern University. Students examine the question of race relations in an interdisciplinary setting to include sociological, psychological, political, and historical perspectives. Students then will apply these newly-acquired critical perspectives to analyze and compare selected texts, essays, films, and other cultural artifacts from various cultural/ethnic groups in the United States. This analytical tool will help students to recognize the genesis, evolution, and dissemination of racial/ethnic prejudices, conflicts, and tensions as well as to recognize dynamics of interracial harmony.

399. ARTS, SOCIETY, AND CULTURE (Credit, 3 hours). Course designed to promote an understanding of the interrelatedness of learning and to provide actual experience in the humanities as they relate to contemporary issues.

400/401. CULTURAL EXPRESSIONS (Credit, 3 hours each). A study of man's cultural expressions in literature, art, music, and dance. Emphasis on those creations which represent well the Western culture.

403. THE BLACK EXPERIENCE (Credit, 3 hours). A study of some of the enduring black writers, painters, and musicians such as Booker T. Washington, W. E. B. DuBois, Frederick Douglass, Langston Hughes, James Baldwin, Marian Anderson, and others.

404. Louisiana's WriterS, Musicians, and Artists (Credit, 3 hours). An interdisciplinary and multicultural course which focuses on the "nature of man" as he evolved in southern literature, art, and music.

### **JAPANESE (JAPN)**

102. INTRODUCTION TO JAPANESE (Credit, 3 hours). Introduction to elementary structures in the Japanese language. Emphasis on listening comprehension, pronunciation, basic vocabulary, and grammar structures necessary for developing oral proficiency skills. Classroom work is extended and enhanced by use of laboratory facilities for oral comprehension and pronunciation exercises, vocabulary acquisition, grammar, and spelling exercises. Lab attendance required.

103. INTRODUCTION TO JAPANESE (Credit, 3 hours). Continuation of JAPN 102 with increased emphasis on reading and writing activities. Additional work on speaking and listening comprehension skills through extensive practice with video and audio cassettes. Continued use of computer lab self-tutorials. Lab attendance required. Prerequisite: JAPN 102.

### **MANAGEMENT (MGMT)**

100. INTRODUCTION TO BUSINESS (Credit, 3 hours). Course designed for a student's first exposure to the study of business; views business as a complex of interrelated systems emphasizing management, human resources, financing, production, and marketing. No credit given to business majors.

300. PRINCIPLES OF MANAGEMENT (Credit, 3 hours). An overview of the field of management; emphasis on modern management theory and practice, problems of policy, organization, and operations. Prerequisite: Junior standing.

305. MANAGEMENT INFORMATION SYSTEMS (Credit, 3 hours). Systems analysis, design implementation, and dynamics; emphasis on management information systems using computers; utilization of management information systems to improve managerial decision making. Prerequisites: MGMT 300, CMPS 290.

306. QUANTITATIVE ANALYSIS IN BUSINESS (Credit, 3 hours). Operations research techniques including linear programming, decision analysis, project management, queuing theory, simulation, and other techniques with emphasis on applications in business. Prerequisite: ECON 275 or MATH 276, MGMT 300.

310. PRODUCTION MANAGEMENT (Credit, 3 hours). Principles of production and operations management applicable to manufacturing and service organizations, including forecasting, product design, facilities layout and location, materials handling, project management, research and development, procurement, inventory control, aggregate planning and scheduling, quality control, and other relevant topics. Prerequisites: MGMT 300, 306.

312. PURCHASING AND MATERIALS MANAGEMENT (Credit, 3 hours). Principles of purchasing and materials management applicable to manufacturing and service organizations, including policies, procedures, new product development, make-or-buy decisions, sourcing, pricing, contracts, negotiation, special purchases, legal and ethical consideration, inventory, and other related topics. Prerequisite: MGMT 300. NOTE: A student may not receive credit for this course and MKTG 312 OR EBIZ 312.

313. TOTAL QUALITY MANAGEMENT (Credit, 3 hours). Course covers the concept of quality and the tools and practices that support a total quality management program. Prerequisite: MGMT 310.

320. HUMAN RESOURCES MANAGEMENT (Credit, 3 hours). Study of the personnel function and the importance of human resources in organizations, including personnel planning and forecasting, recruitment, selection, training and development, promotion, performance evaluation, employee compensations, the relationship with the environment and employee associations, and other relevant topics. Prerequisite: MGMT 300.

360. LEGAL ENVIRONMENT OF BUSINESS (Credit, 3 hours). An introduction to the American legal system and to the inter-relationship of law, business, and ethics. The course examines the role of law in society; government regulation of business through administrative agencies, Congress, and the court systems; and the ethical responsibilities of businesses. Prerequisite: Junior standing, MGMT 300.

365. BUSINESS AND SOCIETY (Credit, 3 hours). Economic, social, and political influences affecting profit and nonprofit organizations, along with ethical considerations. Prerequisite: Junior standing, MGMT 300.

400. MANAGEMENT SEMINAR (Credit, 3 hours). Contemporary topics of current interest in management. Topics will change from semester to semester. Prerequisite: Senior standing or consent of the department chair.

410. PHYSICAL DISTRIBUTION SYSTEMS (Credit, 3 hours). This course examines contemporary issues in the management and integration of raw material procurement, inventory management, and finished goods delivery. The topics covered include planning and managing inventories, transportation, network design, and financial factors influencing supply chain decisions. Prerequisites: CMPS 290 and MGMT 300 or equivalent.

411. SERVICE OPERATIONS MANAGEMENT (Credit, 3 hours). Principles of operations management applicable to the service area, including forecasting, process planning, location, facility layout, aggregate planning, work measurement, technology, information systems, scheduling, inventory, vehicle routing, quality, and other related topics. Prerequisite: MGMT 310.

420. ORGANIZATIONAL BEHAVIOR (Credit, 3 hours). Application of behavioral science theories and research to understanding the behavior of people in the work setting; emphasis on factors that impact workers' morale, group dynamics, work force diversity, and efficiency. Prerequisite: MGMT 300.

425. COMPENSATION MANAGEMENT (Credit, 3 hours). Methods of job evaluation, wage

level, wage structure, incentive plans, and contemporary and post-employment issues of employee compensation. Prerequisite: MGMT 300.

428. LABOR-MANAGEMENT RELATIONS (Credit, 3 hours). Labor force, labor law, collective bargaining, grievance procedures, and the development of industrial relations policy. Prerequisite: MGMT 320.

439. MANAGEMENT OF REAL ESTATE ASSETS (Credit, 3 hours). Study of the private enterprise process of creating and managing real estate assets; researching, planning, and administering the property development; identifying and negotiating with credit sources; tenant-lease negotiations, money, capital, and mortgage markets; changes in prices and rents, utilization of real estate facilities, and other related topics. Prerequisites: MGMT 300, 337.

441. ELECTRONIC COMMERCE (Credit, 3 hours). This course provides an understanding of how electronic commerce has affected all aspects of the corporate world. Topics covered include Information Superhighway, World Wide Web, the Internet, and business applications of electronic commerce. Prerequisites: CMPS 290 and MGMT 300 or equivalent.

443. BUSINESS DATA COMMUNICATIONS & SECURITY (Credit, 3 hours). This course provides an understanding of the importance of data communications for E-Business. Topics covered include Physical Aspects of Data Communication, Common Carrier Services, and Local Area Networks. Prerequisites: CMPS 290 and MGMT 300 or equivalent.

445. LOGISTICS & TRANSPORTATION SYSTEMS (Credit, 3 hours). This course provides an understanding of the design and management of supply chain operations in selected logistic settings. Particular emphasis is placed upon the areas of traffic management, carrier operations, carrier selection and contract negotiation, and warehousing. Each area is analyzed in terms of organizational differences, operational processes, variations in information needs, and performance control mechanisms. Prerequisite: MGMT 300 or equivalent.

446. ENTERPRISE RESOURCE PLANNING (ERP) (Credit, 3 hours). This course is designed to provide the students with a comprehensive understanding of Enterprise Resource Planning systems (ERP) which are used to integrate an organization's operations and processes effectively and efficiently. The implications of ERP systems on organizational structure, processes, and people's working practices are discussed. Extensive hands-on experience with the SAP R/3 is provided. Prerequisite: MGMT300, CMPS 290, or permission of instructor.

450. MANAGEMENT OF INNOVATION AND TECHNOLOGY (Credit, 3 hours). Study of management of innovation and technology, including: management of creativity, patenting, models, and barriers of technological transfer; social, political, economic, governmental, and international influences; and other relevant topics. Prerequisite: Senior standing.

455. ENVIRONMENTAL MANAGEMENT (Credit, 3 hours). Study of environmental issues from a management perspective with emphasis on the impact and response of corporations, environmental regulations, global issues such as ozone depletion, acid rain, and greenhouse effects are covered. Traditional issues of air and water pollution, pesticide usage, land usage, and hazardous waste disposal and cleanup also are addressed. Prerequisite: Senior standing.

460. ADVANCED BUSINESS LAW (Credit, 3 hours). Study of specific areas of law pertaining to business transactions with emphasis on legal concepts underlying sales of goods, commercial paper, partnerships, corporations and bankruptcy; application of uniform commercial code. Does not satisfy the requirements of the accounting curriculum. Prerequisite: MGMT 360.

465. BUSINESS AND PROFESSIONAL ETHICS (Credit, 3 hours). Study of ethical consideration in business and codes of professional conduct. Prerequisite: Senior standing.

466. REAL ESTATE LAW (Credit, 3 hours). Study of legal rights and obligations related to real estate property, including transfer of real estate assets,

legal relationships between borrowers and lenders in mortgage transactions, types of tenancies, tenant rights, leases, modern trends in landlord-tenant law, taxation issues of real estate, and other related topics. Prerequisites: MGMT 337, 360.

470. ENTREPRENEURSHIP I (Credit, 3 hours). Study of the development and management of small business enterprises with emphasis on the practical "how-to" and the general requirements for business success; major limitations and special problems facing small and minority businesses; and other relevant topics. Prerequisite: MGMT 300. Cross-listed as MKTG 470.

471. ENTREPRENEURSHIP II (Credit, 3 hours). Continuation of MGMT 470 with emphasis on development of business plan. Prerequisite: MGMT 470.

472. RESOURCE ACQUISITION STRATEGY (Credit, 3 hours). Evaluating opportunities, understanding the importance of assessing need prior to venture creation, acquiring resources, identifying customers and estimating demand. Senior Standing or permission from department chair.

473. INTERNSHIP IN ENTREPRENEURSHIP (Credit, 3 hours). Practical experience in entrepreneurship through on-the-jobwork assignments with select business firms. Students spend 12 hours a week involved in on-site field work. Prerequisite: Department chair and instructor, MGMT470, 471, 472

480. MANAGEMENT OF INTERNATIONAL BUSINESS (Credit, 3 hours). Study and analysis of management problems and practices of international businesses, including organization structures of multinational corporations, production, and logistics; human resources and labor relations; marketing and financial management; cultural, political, social, and environmental constraints; and other relevant topics. Prerequisite: MGMT 300. Crosslisted as MGMT 470.

490. STRATEGIC MANAGEMENT (Credit, 3 hours). Study of business policies integrating the functions of all fields of business administration with emphasis on top management viewpoint of the operations of the business

enterprise. Case studies are used. This is a capstone course for the undergraduate business curriculum. Prerequisite: Completion of College of Business core courses.

495. INTERNSHIP IN MANAGEMENT (Credit, 3 hours). Practical experience in business operation and management through on-the-job work assignment with business firms and governmental agencies. Students spend 12 hours a week involved in on-site field work. Prerequisite: Permission of department chair.

498. INDEPENDENT STUDY IN MANAGEMENT (Credit, 3 hours). This faculty supervised study offers students the opportunity to undertake independent research projects or study of contemporary issues in management. Prerequisite: Permission of department chair and MGMT 300. Also approval of the dean.

### **MARKETING (MKTG)**

300. PRINCIPLES OF MARKETING (Credit, 3 hours). Study of concepts and issues underlying the modern practice of marketing, including the environmental forces affecting the marketing decision maker, organization and planning of the marketing function, market segments, marketing mix, and other relevant topics. Prerequisite: Junior standing.

312. PURCHASING AND MATERIALS MANAGEMENT (Credit, 3 hours). Principles of purchasing and materials management applicable to manufacturing and service organizations, including policies, procedures, new product development, make-or-buy decisions, sourcing, pricing, contracts, negotiation, special purchases, legal and ethical consideration, inventory, and other related topics. Prerequisite: MGMT 300. NOTE: A student may not receive credit for this course and MGMT 312 OR EBIZ 312.

315. BUSINESS-TO-BUSINESS SALES (Credit, 3 Hours) This course is designed to provide students with the foundations of Business-to-Business (B2B) Sales. The course will focus on the nature and scope of B2B Sales; how B2B sales differs from Business-to-Consumer (B2C) selling, and the role of B2B Sales in the economy. Prerequisite: MKTG 300.

320. CONSUMER BEHAVIOR (Credit, 3 hours). Study of concepts and practices underlying consumers' decision-making process as it applies to purchase of consumer goods, including environmental influences on consumer behavior; consumer knowledge, motives, needs, and attitudes; market segments; and marketing strategy. The viewpoint of the consumer and the marketing manager are considered. Prerequisite: MKTG 300.

330. RETAIL MERCHANDISING (Credit, 3 hours). Study of principles and practices of organization, ownership, operation, and management of retail establishments with emphasis on planning, control, pricing, distribution, and promotion of merchandise; retail inventory method; and other relevant topics. Prerequisite: MKTG 300.

335. PROFESSIONAL SELLING (Credit, 3 hours). Study of principles and practices of selling, including the legal, social, and ethical responsibilities of salespersons; the communication skills required for successful selling; techniques on effective selling; role of sales persons in implementing effective market strategies; and other relevant topics. Practical experience in selling through on-the-job and other related assignments will be utilized. Prerequisite: MKTG 300.

360. MARKETING PROMOTION (Credit, 3 hours). Study of principles and concepts related to development and organization of promotional efforts to facilitate the sale and distribution of goods. Prerequisite: MKTG 300.

400. SEMINAR IN MARKETING (Credit, 3 hours). Contemporary topics of current interest in marketing. Topics change from semester to semester. Prerequisite: Senior standing or consent of department chair.

410. MARKETING CHANNELS AND DISTRIBUTION SYSTEMS (Credit, 3 hours). Study of the components of modern day physical distribution systems with emphasis of facility location, transportation, warehousing, inventory control, and communication. Prerequisite: MKTG 300.

446. SALES FORCE MANAGEMENT AND LEADERSHIP (Credit, 3 Hours) This course is a study of the principles, methods and problems associated with the management of a sales force. These issues include, management principles, selection and training, organization, compensation, motivation and controlling a sales force. Additional topics include territory assignment and sales forecasting. Prerequisite: MKTG 300.

450. INDUSTRIAL MARKETING (Credit, 3 hours). Study of marketing principles and practices applicable to industrial markets, including strategies for marketing complex technologies and services to industrial firms, domestically and internationally; industrial purchasing; and other relevant topics. Prerequisite: MKTG 300.

460. ADVERTISING MANAGEMENT (Credit, 3 hours). Study of principles and practices of management of the advertising function, including the organization and operation of the advertising department and the advertising agency, effective utilization of media, planning and execution of advertising campaigns, preparation of budgets and allocations, relationship of advertising to the marketing mix and the overall marketing strategy, and other relevant topics. Prerequisites: MKTG 300, 360.

470. ENTREPRENEURSHIP I (Credit, 3 hours). Study of the development and management of small business enterprises with emphasis on the practical "how-to" and the general requirements for business success; major limitations and special problems facing small and minority businesses and other relevant topics. Prerequisite: MGMT 300.

475. MARKETING RESEARCH (Credit, 3 hours). Study of applied research methods in the analysis of marketing problems and the use of research findings in the formulation of marketing policies, with emphasis on research design, sampling, data collection, psychological scaling, techniques of statistical analysis, preparation and presentation of the research report, and other relevant topics. Prerequisites: MKTG 300, MGMT 306, MATH 275.

480. INTERNATIONAL MARKETING (Credit, 3 hours). Study of the marketing process as it applies to the international environment, including marketing research, channels of

distribution, promotion, pricing, financing, licensing, import-export management, marketing strategy for multinational operations, and marketing systems in various countries. Prerequisite: MKTG 300.

491. **MARKETING STRATEGY** (Credit, 3 hours). Advanced study of marketing functions from the point of view of the marketing manager, with emphasis on formulation and implementation of marketing policies; buyer behavior; product, channels, promotions, and pricing strategies. Prerequisite: To be taken only during the last semester of course work.

495. **INTERNSHIP IN MARKETING** (Credit, 3 hours). Practical experience in marketing through on-the-job work assignments with various businesses and institutions. Students spend 12 hours a week involved in on-site field work. Prerequisite: Permission of departmental chair.

498. **INDEPENDENT STUDY IN MARKETING** (Credit, 3 hours). This faculty-supervised study offers students the opportunity to undertake independent research projects of study of contemporary issues in marketing. Prerequisites: Permission of department chair and MKTG 300. Also approval of the dean.

## **MASS COMMUNICATION (MCOM)**

202. **INTRODUCTION TO MASS COMMUNICATION** (Credit, 3 hours). Principles, language, design, persuasion, and influence of mass media. Discussion on the roles of media in modern society, fundamentals, theories, and basic mechanics of print and electronic media.

211. **NEWS WRITING** (Credit, 3 hours). An introductory news writing course which stresses grammar, sentence structure, vocabulary, clarity, style, and logic as applied to the writing of news copy. Prerequisites: ENGL 110, 111

230. **WRITING FOR THE ELECTRONIC MEDIA** (Credit, 3 hours). The course focuses on writing radio and television news copy, commercials, public service announcements and promotional messages. The ethical and legal implications of copywriting are also studied. Prerequisite: MCOM 211.

301. **PUBLIC RELATIONS PRACTICES** (Credit, 3 hours). The course includes concepts, ethics, legal implications and practices within the profession. Covered are the management functions of public relations in government, non-profit organizations and corporations and the historical development of public relations. Prerequisite: MCOM 211.

306. **GENERAL ASSIGNMENT REPORTING** (Credit, 3 hours) (Lec., 1 hour; Lab, 2 hours). The course places emphasis on improving writing skills and developing reporting techniques. Prerequisites: MCOM 211.

307. **MEDIA GRAPHICS** (Credit, 3 hours) (Lec., 1 hour; Lab, 2 hours). Concentrates on use of computers to create graphics for layout and design of newspapers focusing on style, grammar and accuracy. Prerequisites: MCOM 211.

308. **NEWS EDITING** (Credit, 3 hours) (Lec., 1 hour; Lab, 2 hours). Basic course in editing copy for newspapers. Prerequisites: MCOM 211.

311. **NEWSCASTING** (Credit, 3 hours) (Lec., 1 hour; Lab, 2 hours). Course develops the skills required of TV news anchors in the studio and reporters in the field. Prerequisites: MCOM 210 and 211.

312. **ELECTRONIC FIELD PRODUCTION** (Credit, 3 hours). The course focuses on the fundamentals of television field production techniques. Students gain proficiency in camera operation, lighting, sound and video tape editing.

315. **TV NEWS PRODUCTION** (Credit, 3 hours) (Lec., 1 hour; Lab, 3 hours). Television technical skills in the studio and in the field, including use of all studio equipment and portable tape recorders. Prerequisites: MCOM 211, and 318. Must be taken concurrently with MCOM 319.

316. **PUBLIC RELATIONS WRITING** (Credit, 3 hours). The course covers the various forms of PR writing targeted to specific audiences, including news releases, fact sheets, media lists, speeches, letters, memoranda, annual reports, advertorials, commentary, newsletters, brochures, annual reports, materials for the Internet web pages, fliers and

crisis management materials. Prerequisites: MCOM 211, 307, and 301.

318. TV NEWS WRITING (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Course develops the broadcast news writing skills of students who successfully passed MCOM 211. Prerequisites: MCOM 211.

319. TV NEWS REPORTING (Credit, 3 hours) The course is designed to provide techniques utilized to gather and present broadcast news focusing on writing, broadcast news coverage and broadcast news editing. Prerequisites: MCOM 211, and 318. Must be taken concurrently with MCOM 315.

325. COMPUTER-ASSISTED REPORTING. (Credit, 3 hours). Focuses on the use of online resources and public and private databases for newsgathering, analysis and reporting. Prerequisite: MCOM 211, CMPS 105

331. AFRICAN-AMERICANS IN THE MEDIA (Credit, 3 hours). A survey of African-American publications from the beginning to the present; a study of African-American journalists, their struggles, and impact on journalism. Can fulfill University African-American experience requirement for non-mass communications majors.

341. FEATURE WRITING (Credit, 3 hours). The course takes a look at the differences between soft and hard news and focuses on writing and selling feature stories to magazines and newspapers. Students learn about narrative and delayed leads, creating outlines to write the story and how to submit their ideas for publication.

343. PHOTOJOURNALISM (Credit, 3 hours) (Lec., 1 hour; Lab, 2 hours). Principles and practices of journalistic photography.

345. TV EDITING (Credit, 3 hours). An introduction to non-linear editing using Final Cut Studio. The course emphasizes hands-on training and students will learn non-linear editing in a real-world context.

361. SPORTSWRITING (Credit, 3 hours). The course consists of writing stories based on witness

sports action on a first-hand basis, interpreting facts through interviews with coaches and players and analysis. The students will also cover a range of topics that include profiles, trend stories and general sports features. Prerequisite: MCOM 211.

400. COMMUNICATIONS LAW (Credit, 3 hours). Course examines the law, rules, and regulations of the Federal Communications Commission and other government organizations as they apply to journalists. Course also deals with major issues of concern to print and broadcast journalists such as libel, privacy, and use of the Freedom of Information Act. Prerequisites: MCOM 211.

401. REPORTING PUBLIC AFFAIRS (Credit, 3 hours) (Lec., 1 hour; Lab, 2 hours). Course concentrating on in-depth reporting that requires extensive research and an understanding of working with sources and public records. Prerequisites: MCOM 211, and 306.

406. TV NEWS PRACTICUM (Credit, 3 hours) (Lab, 4 hours). Course allows students to apply the writing, reporting, and production skills learned in previous TV news courses to the actual production of stories for TV news broadcasts on cable. Prerequisites: MCOM 211, 311, 315, 318 and 319.

425. PUBLIC RELATIONS TECHNOLOGIES (Credit, 3 hours). Students will learn how to develop concepts for various public relations messages and to develop those concepts into scripts that will be used with various audio visuals to develop products used as part of a public relations campaign. Prerequisites: MCOM 211, 301, and 307.

430. PUBLIC RELATIONS RESEARCH (Credit, 3 hours). Public Relations Research concentrates on the research techniques, methodologies, and processes used in the professional practice of public relations for planning and evaluating programs of action, including communications strategies and tactics. Prerequisites: MCOM 301, 316.

439. PUBLIC RELATIONS TECH. AND CAMPAIGNS. (Credit, 3 hours). The course provides an overview toward planning, developing and implementing public relations campaigns. Course includes theoretical and practical experience in designing and producing materials for print and electronic communication. Prerequisites: MCOM 211, 301, 307, and 316.

441. MANAGING RADIO AND TV STATIONS (Credit, 3 hours). The course focuses on functions and purposes of radio and television management; determination of, and response to, public reaction to programming; emphasis on staffing, equipment, budget preparation; inventory of legal requirements, network relations, and FCC regulations.

475. BROADCASTING AND ADVERTISING (Credit, 3 hours). The course focuses on the socio-scientific examination of advertising principles as they apply to contemporary broadcast media.

491. INTERNSHIP (Credit, 3 hours). Student will work for a radio/TV station, newspaper, or other approved professional organization in order to enhance the learning and instruction received in the classroom. Prerequisites: At least a 2.5 GPA in the major; senior standing, with permission of the internship director and the department chair; MCOM 211.

499. ETHICS IN MASS COMMUNICATIONS (Credit, 3 hours). The course focuses on the examination of the roles, responsibilities and ethics of journalists, and the impact of their activities on society.

## **MATHEMATICS (MATH)**

092. DEVELOPMENTAL MATHEMATICS (Credit, 3 hours). This course is designed to prepare students for pre-calculus MATH 135. Topics include operations on real numbers, variable expressions, linear equations and inequalities, polynomial, and rational expressions, absolute value, functions, and graphs of functions. Students placed according to ACT/SAT scores.

130. COLLEGE MATHEMATICS I (Credit, 3 hours). An introduction to problem-solving approaches, logic, the real number system; basic concepts of algebra including functions, graphs, systems of equations; and inequalities; geometry; and topics in contemporary mathematics. Designed for students needing a maximum of six hours of mathematics.

131. COLLEGE MATHEMATICS II (Credit, 3 hours). An introduction to a variety of topics which permeate the field of mathematics. Topics include counting methods, probability, statistics, mathematical systems, problem solving, and contemporary mathematics. Designed for students needing a maximum of six hours of mathematics.

135. PRE-CALCULUS I: COLLEGE ALGEBRA (Credit, 3 hours). Topics include a review of the real numbers and their properties; operations with complex numbers; equations and inequalities; polynomial, rational, exponential, and logarithmic functions and their graphs; and systems of equations and inequalities. Modelling is introduced and applications are emphasized. Designed for students in the business, scientific, or engineering programs. Graphing calculators recommended. Prerequisite: Placement examination.

140. PRE-CALCULUS II: COLLEGE TRIGONOMETRY (Credit, 3 hours). Topics include exponential logarithmic and trigonometric equations and functions; trigonometric identities; right angle trigonometry; Laws of sines and cosines; and DeMoivre's Theorem. Modeling and applications are emphasized. Designed for students in the scientific or engineering programs. Graphing calculators are recommended. Prerequisite: A grade of "C" or better in MATH 135 or by placement examination.

194. FRESHMAN HONORS MATHEMATICS (Credit, 3 hours). Course designed for freshmen with a good mathematical background who have been admitted to the Freshman Honors Program. It treats the elementary functions: algebraic, exponential, logarithmic, and trigonometric. Prerequisite: Placement Examination.

200. FINITE MATHEMATICS (Credit, 3 hours). Designed for the business and social science major. Topics include systems of linear equations, vectors, matrices, and matrix algebra; linear inequalities, linear programming; counting techniques: permutations and combinations; probability; basic concepts in

mathematics finance (annuities included); and introduction to statistics. Prerequisite: MATH 135 or its equivalence.

203. CALCULUS FOR BUSINESS AND SOCIAL SCIENCES (Credit, 3 hours). Topics include functions, limits, continuity, differentiation of algebraic, logarithmic, and exponential functions, introduction to maxima/minima, applications of differential calculus, integral calculus. Prerequisites: MATH 135 or its equivalence and MATH 200.

204. CONCEPTS OF ELEMENTARY MATHEMATICS (Credit, 3 hours). Topics include the real numbers and their properties with special emphasis on whole numbers and place value; system with bases other than 10; integers; common and decimal fractions; ratio and proportion; percent; measurement, including the metric system; introduction to patterns; and problem solving. Applications to real life situations are emphasized. Designed for elementary education majors and nurses who must meet the requirements for certification by the State of Louisiana. A minimal background in mathematics required.

205. INFORMAL GEOMETRY (Credit, 3 hours). Intuitive study of points, angles, lines, perpendicularity, parallelism in the plane, basic constructions and proofs, including congruence and similarity, parallelism in the plane, basic area and volume problems. Designed for elementary school teachers. Hands-on activities, investigations to discover, and make conjectures about properties of geometry are included. Prerequisite: Consent of the instructor.

233. INTRODUCTION LINEAR ALGEBRA (Credit, 3 hours). An introductory study of elementary matrix algebra, systems of linear equations, determinants, vector spaces, eigen vectors eigen values, and linear transformations. Prerequisites: MATH 135 and 140. MATH 233 may be taken concurrently with MATH 264.

250. TOPICS IN GEOMETRY (Credit, 3 hours). Topics include history of geometry, an axiomatic approach to Euclidean geometry with an introduction to Non-Euclidean geometry. Basic graph theory applied to subjects in pure mathematics, basic constructions, and vectors in

geometry are part of the course. Prerequisite: Consent of the instructor.

264. CALCULUS I (Credit, 4 hours). The first course of a three-course sequence. The concept of a limit is introduced, and it is used to develop the concepts of continuity and the derivative. These are studied from a symbolic, graphic, and numeric perspective for a wide variety of basic functions and combinations thereof. Applications are included. Prerequisites: MATH 135 and 140 with a grade of "C" or better, or the designated placement test score.

265. CALCULUS II (Credit, 4 hours). The second course of a three-course sequence. Much attention is given to finding integrals (definite, indefinite, and improper) for a wide variety of basic functions symbolically, graphically, and numerically; some applications are covered. Taylor polynomials and series are included. Prerequisite: MATH 264 with a grade of "C" or better.

274. ELEMENTARY STATISTICS I (Credit, 3 hours). An introduction to basic descriptive statistics and mathematical concepts commonly used in statistics. Topics discussed are percentiles, measures of central tendency and of dispersion, standard normal distribution, correlation, regression, and prediction. Not applicable toward a major in mathematics.

275. ELEMENTARY STATISTICS II (Credit, 3 hours). An introduction to probability, hypothesis testing for both parametric and non-parametric statistics, statistical inference with continuous variables, two independent samples, and correlated samples. An introduction to analysis of variance (ANOVA) technique, and categorical data analysis are topics that are included. Not applicable toward a major in mathematics. Prerequisite: MATH 274 or MATH 200.

276. STATISTICS FOR THE MATHEMATICAL SCIENCES OR ENGINEERING MAJORS (Credit, 3 hours). An introduction to the basic concepts of statistics with emphasis placed on descriptive statistical analysis, probability, discrete random variables, continuous random variables, and sampling distributions. Prerequisite: MATH 265 with a grade of "C" or better.

330. MODERN ALGEBRA I (Credit, 3 hours). An introduction to the basic concepts of modern algebra. Topics include the nature of proofs,

cosets, and Lagrange's theorem. Prerequisites: MATH 233 and MATH 265 with a grade of "C" or better, or consent of the department.

346. SEMINAR FOR ACTUARIAL EXAM 100 (Credit, 3 hours). Study and discussion of concepts and problems from calculus and linear algebra. Recent actuarial examinations will be used for the discussion. Prerequisites: MATH 233 and MATH 364 or its equivalence with a grade of "C" or better.

364. CALCULUS III (Credit, 4 hours). The third course of a three-course sequence. Topics include contour diagrams, vectors, vector calculus, functions of several variables, partial derivatives, multiple integrals, and optimization. Prerequisite: MATH 265 with a grade of "C" or better.

365. ADVANCED CALCULUS (Credit, 3 hours). Advanced topics of calculus including vectors and vector calculus, linear approximations of vector valued functions of several variables, the derivative matrix, real valued functions, multiple integrals, line integrals, surface integrals, and theorems of Green, and Stokes' divergence theorem. Prerequisite: MATH 364.

370. INTRODUCTION TO ORDINARY DIFFERENTIAL EQUATIONS (Credit, 4 hours). Elementary theory and methods of solutions of first order and second ordinary differential equations with applications; series solutions of linear differential equations; methods of solutions of systems of differential equations; LaPlace transforms and applications; and selected methods of solving linear differential equations. Prerequisite: MATH 364 with a grade of "C" or better.

379. DISCRETE MATHEMATICS (Credit, 3 hours). A study of some fundamental topics in discrete mathematics. Topics include counting principles, basic logic theory, mathematical induction, relations, the Pigeonhole Principle, generating functions, recurrence relations, Principle of Inclusion and Exclusion, and graph theory. Prerequisite: MATH 265.

390. CO-OP PROGRAM FOR MATHEMATICS MAJORS. (Credit, 3 hours). Co-op students may be given up to nine semester hours of credit. A maximum of three semester hours may be applied to the mathematics requirement for grad-

uation with the approval of the department. Prerequisite: Consent of instructor.

395. CALCULUS III AND DIFFERENTIAL EQUATION FOR ENGINEERING MAJORS. (Credit, 4 hours). This course combines selective topics normally covered in both calculus III and differential equations courses. Main focus is on application of fundamental mathematical principles to investigate realistic design elements. Topics include: vector differential and integral calculus; power series (Bessel and Legendre functions, and Fourier), partial fractions, Fourier and LaPlace transforms of derivatives; modeling of and solutions to DE's (ordinary, linear, and homogeneous) with constant coefficients, initial values, and free and forced oscillations. Prerequisite: MATH 265 with a grade of "C" or better, or consent of the department.

401. HISTORY OF MATHEMATICS (Credit, 3 hours). The evolution of the natural number concept, numeration systems, number theory, the history of computation, the roots of algebra, the origin and extensions of geometry, extension of number concepts, the nature of infinity, and the history of calculus from Archimedes to Weierstrass.

432. ELEMENTARY THEORY OF NUMBERS (Credit, 3 hours). An introductory study of number theory. Topics studied are divisibility, congruencies, quadratic reciprocity, diophantine equations, and sequences of primes. Prerequisite: Consent of the department.

433. LINEAR ALGEBRA (Credit, 3 hours). An advanced study of vector spaces, subspaces and dimension; inner products; elementary matrices, the inverse of a matrix and rank of a matrix; linear transformations; rank, nullity, and inverse of a linear transformation; eigen values and eigen vectors; similarity; and Cayley-Hamilton Theorem. A good mixture of proofs and computations is given. Prerequisite: Consent of the instructor.

435. MODERN ALGEBRA II (Credit, 3 hours). A continuation of MATH 330 with a slightly more sophisticated approach. Topics include permutation groups, factor groups, homomorphism theorems, rings and ideals, including integral

domains, and fields. Prerequisite: MATH 330 with a grade of "C" or better.

445. MATHEMATICS OF COMPOUND INTEREST (Credit, 3 hours). A detailed study of the theory of interest. Topics include nominal and effective rates of interest and discount; force of interest at; general annuities; amortization schedules and sinking funds; including determination of outstanding principal and split of payments into principal and interest; determination of fund yield rates and pricing of bonds and related securities. Prerequisites: MATH 265 or equivalent, with a grade of "C" or better.

446. SEMINAR IN ACTUARIAL EXAM 110 (Credit, 3 hours). Study and discussion of concepts and problems in probability and statistics. Recent actuarial examinations will be used for discussion. Prerequisites: MATH 276 and MATH 475 with a grade of "C" or better.

450. TOPICS IN GEOMETRY (Credit, 3 hours). Topics will be chosen from compass and ruler construction, theorems of Menelaus and Ceva, projective geometry, lattice theory, Boolean geometry, hyperbolic geometry, or Euclidean geometry.

462. REAL ANALYSIS (Credit, 3 hours). An axiomatic study of the real numbers: algebraic axioms, axioms of order, completeness axiom, Archimedean property, nested intervals, infinite sets, operations on sets, direct and inverse images of mappings, convergence of sequences of numbers and of functions, uniform convergence, open and closed sets, and Bolzano-Weierstrass-Heine Borel theorems. Prerequisites: MATH 364 and MATH 330, with a grade of "C" or better.

463. INTRODUCTION TO COMPLEX VARIABLES (Credit, 3 hours). A theoretical study of complex numbers. Topics include complex numbers, functions of a complex variable, differentiation and integration (Cauchy-Riemann equations, Cauchy's theorem), and conformal mapping. Prerequisite: MATH 364 with a grade of "C" or better.

470. DIFFERENTIAL EQUATIONS (Credit, 3 hours). Course consists of advanced topics in differential equations. They include series solutions of linear ordinary differential equations about ordinary and singular points,

theory and methods of solution of linear systems of ordinary differential equations Laplace transforms, Sturm-Liouville boundary value problems and Fourier series, stability of autonomous systems, and numerical methods applications. Prerequisites: MATH 370 and MATH 233 or the equivalent, with a grade of "C" or better.

472. BOUNDARY VALUE PROBLEMS (Credit, 3 hours). Topics include ordinary differential equations and boundary value problems, Fourier series and integrals; classical equations of mathematical physics; and heat, wave, and potential equations. Prerequisites: MATH 370 and MATH 233 or the equivalent, with a grade of "C" or better.

474. NUMERICAL ANALYSIS (Credit, 3 hours). Numerical solutions and iterative solutions of equations, interpolation, and polynomial approximations of functions; numerical differentiation and integration; numerical solutions of ordinary differential equations; derivation of numerical methods; and error, stability, and convergence of numerical procedures. Prerequisites: MATH 370 and MATH 233 or the equivalent with a grade of "C" or better.

475. PROBABILITY AND STATISTICS I (Credit, 3 hours). Probability distribution, combinatorial analysis, moment generating functions, random variables, laws of large numbers, sampling distributions and central limit theorem, Markov chain, and Poisson process. Prerequisites: MATH 364 and MATH 276, with a grade of "C" or better.

476. PROBABILITY AND STATISTICS II (Credit, 3 hours). Experimental design, estimation, hypothesis testing, linear regression and correlation, and nonparametric methods Prerequisites: MATH 475 with a grade of "C" or better.

477. MATHEMATICAL MODELING (Credit, 3 hours). Construction, development, and study of mathematical models for real situations, basic examples, model construction, models for linear optimization, and selected case studies.

480. MATHEMATICS AND CRITICAL THINKING (Credit, 3 hours). The critical thinking model of Richard Paul and others will be used to analyze mathematics, its nature, and processes.

These include, but are not limited to, inductive and deductive reasoning, the nature of proof, abstraction and generalization, modeling, and problem solving. These analyses will lead to a better conceptual understanding of mathematics. Prerequisite: Consent of the department.

481. PRINCIPLES OF ALGEBRA I (Credit, 3 hours). An investigation of the algebraic structure of arithmetic and other algebras, including a look at defining axioms for an algebra; geometric models for introducing algebra (algebra tiles); issues of transitional mathematics; research on the teaching of algebra; and the structure of finite fields and rings.

482. PRINCIPLES OF GEOMETRY (Credit, 3 hours). This course begins with an informal study of measurement and geometry, emphasizing the reasoning and processes used to make, modify, and extend conjectures and definitions. Also included are topics in transformational geometry, locus, techniques of abstraction and generalization, the selections of axioms and undefined terms, and development of deductive systems.

483. PRINCIPLES OF ANALYSIS I (Credit, 3 hours). An introduction of the study of functions, including all functions found in NCTM Standards on Curriculum, grades five-12. The second course includes an introduction to differential and integral calculus. A review of all algebraic and numerical experiences which are prerequisite for success in calculus, including use of graphing calculators.

492. INTRODUCTION TO POINT-SET TOPOLOGY (Credit, 3 hours). An introduction to the study of topological spaces, continuous functions, homomorphisms, and various topological properties including compactness and connectedness. Prerequisite: MATH 364.

499. SEMINAR IN MATHEMATICS (Credit, 1-3 hours). Selected topics in mathematics. The course content varies with the professor who emphasizes topics in his or her particular area. The student may receive credit for this course for up to six hours under two different headings. Prerequisite: Consent of the professor.

## MECHANICAL ENGINEERING (MEEN)

221. NUMERICAL METHODS FOR ENGI-NEERS (Credit, 3 hours). Study of digital computations and applied numerical methods in FORTRAN. Treatment includes examining several methods for determination of roots, curve fittings, solving systems of linear algebraic and ordinary differential equations, performing polynomial interpolations, numerical differentiation and integration, etc. Prerequisites: ENGR 130 and MATH 265. Co-requisite: MATH 395.

225. DYNAMICS (Credit, 3 hours). Introduction to particle kinematics and kinetics, relative motion, D'Alembert's principle of dynamic equilibrium, work-energy equations, linear and angular momentum, conservation of momentum and energy, impact, motion of a system of particles, and rigid body dynamics. Prerequisites: CIEN 224 and MATH 265.

227. MECHANICS OF MATERIALS (Credit, 3 hours). Introduction to the concept of stress and strain; constitutive laws; axial deformation; thermal stresses; bending and shearing stresses in beams; elastic deflection of beams; torsion; springs; buckling of columns; statically indeterminate problems. Prerequisite: CIEN 224.

229. STATICS AND DYNAMICS FOR ELECTRICAL ENGINEERS (Credit, 4 hours). Introduction to elementary particle and Newtonian mechanics; vector algebra; determination of resultants; equations of equilibrium, friction, centroids, particles kinematics and kinetics, relative motion, work-energy equation, linear and angular momentum, and impact. Prerequisites: MATH 265 and PHYS 221.

235. MATERIALS SCIENCE AND ENGINEERING (Credit, 3 hours). Principal applications and properties of metals, polymers, and ceramics, fundamentals of compositions, structures, bonding, electron energy, magnetic behavior, defects and diffusion, equilibrium phase diagrams, and thermal and electrical properties. Design concepts will be introduced. Prerequisites: CHEM 132 and PHYS 222.

252. INTRODUCTION TO COMPUTER-AIDED DRAFTING AND DESIGN (CADD) (Credit, 3 hours) (Lec., 2 hours; Lab, 3 hours). A computerized approach to engineering drafting/design is taught as a supplement to the manual/analytical method taught in traditional freshman engineering design courses. Students will be taught to use a professional graphic software package to analyze, design, and produce technical drawings of mechanical systems. Individual open-ended design projects will be assigned. Prerequisites: ENGR 120, 130, CIEN 224.

271. INTRODUCTION TO AEROSPACE ENGINEERING (Credit, 2 hours). This entry-level course is designed to expose students to the anatomy and description of aerodynamic, structural, propulsion, and controls aspects of flight vehicles. Emphasis is placed on the application of fundamental principles with laboratory demonstrations for conceptual development. Prerequisites: ENGR 120 and MATH 265.

300. THERMODYNAMICS I (Credit, 3 hours). Introduction to basic laws of classical thermodynamics and behavior of gases and vapors. The principles and laws necessary for energy transformations are also covered. Prerequisite: PHYS 222.

301. THERMODYNAMICS II (Credit, 3 hours). Topics covered include engineering applications of thermodynamics; mixtures, two phase systems, imperfect gases, reactive systems, and thermodynamics properties. Individual/team projects are undertaken. Prerequisite: MEEN 300.

312. FLUID MECHANICS (Credit, 3 hours) (Lec., 3 hours; Lab, 2 hours). Discussion of theory and applications involving fluid properties, fluid statics, fluid dynamics, integral and differential analysis, dimensional analysis, similarity, and internal viscous flow. Laboratory demonstrations on important concepts such as the application of Bernoulli's equation, the momentum equation, and viscous flow in pipes. Prerequisite: MATH 395. Co-requisites: MEEN 227 and 300.

313. FLUID DYNAMICS (Credit, 3 hours). Theory and applications involving boundary layer flows, inviscid incompressible fluid flows, compressible fluid flows, and turbomachinery. Prerequisites: MEEN 312 or equivalent.

335. MATERIALS PROCESSING (Credit, 3.0) (Lec., 3 hours; Lab., 3 hours) Study of the fundamentals of engineering materials and processing as related to design and production. Students will be introduced to material testing and processing. The emphasis will be on the relationships among material structure, processing, performance, and cost. Prerequisites: MEEN 227 and 235.

336. COMPOSITE MATERIALS (Credit, 3 hours). Introduction to properties, fabrication, and material characteristics of composites, fiber matrix compatibility, fiber reinforced composites, laminates, and composite materials manufacturing and design. Prerequisite: MEEN 227.

350. MECHANICS OF MACHINES (Credit, 3 hours) (Lec., 3 hours; Proj., 1 hour). Introduction to kinematics of planar mechanisms using graphical and analytical methods; kinematics of cams and gears; and static and dynamic force analysis of planar mechanisms, kinetic synthesis. Individual/group projects are undertaken. Prerequisite: MEEN 225.

356. MEASUREMENTS (Credit, 3 hours) (Lec., 3 hours; Lab, 3 hours). Introduction to basic elements of general measurement systems and their response with emphasis on system characteristics; treatment of experimental data; sensors and signal conditioning; application of measuring devices to mechanical engineering systems; and application of digital techniques and microcomputers to mechanical measurements. Prerequisites: ELEN 352.

365. MACHINE DESIGN (Credit, 3 hours) (Lec., 3 hours; Proj., 2 hours). Topics include Part I- Fundamentals of mechanical design, theories of failures, fatigue, and fracture mechanics. Part II- Design of mechanical elements and lubrication theory. Individual/team projects are undertaken. Prerequisite: MEEN 227. Co-requisite: MEEN 335.

371. AEROTHERMODYNAMICS OF PROPULSION (Credit, 3 hours). Elementary fluids and laws of thermodynamics are applied in detail to produce thrust for flight vehicles. Aerospace propulsion systems, which include internal combustion engines, turbojet engines and rockets, are taught in detail. Lectures are supplemented with experiments in modern propulsion laboratory. Prerequisites: MEEN 300 and 312.

374. **AERODYNAMICS** (Credit, 3 hours). Principles of fluid mechanics are applied directly to airplane wing sections to produce aerodynamic lift and drag. Students are also introduced to similarity laws and dimensional analysis of wings, fuselage, and propellers, etc. Students also learn to use computer-aided analysis and design of wing sections. Prerequisites: MEEN 271 and 312. Co-requisite: MEEN 395.
378. **AEROSPACE STRUCTURES** (Credit, 3 hours). Airplanes are subjected to rapidly changing (dynamic) loads during motion through atmosphere with turbulence as well as during takeoffs and landings. To account for these loads, MEEN 378 extends the understanding of students to the application of lessons learned from statics, strength of materials, and dynamics to such highly mobile flight vehicles. Students also learn the principles of elasticity, structural design considerations, structural dynamics, and basic finite element techniques. Prerequisites: MEEN 271 and 227.
421. **THERMAL ENVIRONMENTAL ENGINEERING** (Credit, 3 hours). Covers air and humidity calculations, heating and cooling loads, cooling systems, physiological reactions to the environment, air distribution systems, principles of refrigeration, and cryogenic systems. Prerequisite: MEEN 301.
430. **INTRODUCTION TO FINITE ELEMENTS** (Credit, 3 hours). Presents an introduction to the nature and capabilities of finite elements techniques, and methods in engineering science and practices. Prerequisites: MEEN 221, 227, 312, and MATH 395.
439. **INTERMEDIATE MANUFACTURING PROCESSES** (Credit, 3 hours). Presents an introduction to manufacturing processes; deformation processing theory and practices; rolling, extrusion and advanced fabrication techniques; powders; polymers; metals; workability and fracture of ductile materials in fabrication processes; advanced machining processes; and design projects. Prerequisite: Consent of instructor.
442. **HEAT TRANSFER** (Credit, 3 hours). Presents an introduction to heat transfer by conduction, convection, and radiation; and steady an unsteady state heat flow, condensation, and boiling. Individual/team projects will be assigned.
- Prerequisites: MEEN 300 and MATH 395.  
Co-requisite: MEEN 312.
444. **HEAT TRANSFER LAB** (Credit, 1 hour) (Lab, 3 hours). Presents an introduction to the application of conduction, convection, and radiation heat transfer. Emphasis is placed on measurement of temperature and its application for determination of heat transfer co-efficients and heat exchanger performance. Co-requisite: MEEN 442.
450. **ME SENIOR DESIGN I** (Credit, 2 hours) (Lec., 1 hour; Proj., 2 hours). Design projects are assigned to student design teams with emphasis placed on recognition, definition, synthesis, and analysis of the project. A technical report and a set of engineering drawings are required. Prerequisite: MEEN 365.
451. **ME SENIOR DESIGN II** (Credit, 2 hours) (Lec., 1 hour; Proj., 2 hours). A continuation of MEEN 450. Focus is on documentation, specifications, and communication of a design solution via a comprehensive technical report containing the development, manufacturing, and delivery schedule of the project. Prerequisite: MEEN 450.
456. **ENGINEERING MODELING, ANALYSIS AND CONTROL** (Credit, 3 hours). Course provides a background in the mathematical modeling for a variety of applications involving hydraulic, pneumatic, thermal, mechanical, and electrical systems. Course subject matter includes the basic methods and principles in obtaining various types of system responses under different input conditions. Individual/team projects will be assigned. Prerequisites: MEEN 225, 320, and ELEN 352.
457. **FLIGHT VEHICLE STABILITY AND CONTROLS** (Credit, 3 hours). Airplane maneuvering is accomplished by changing forces and moments produced by wings and horizontal and vertical tail sections. Control of flight vehicles therefore becomes very challenging for the designers and pilots as well. MEEN 457 teaches students the fundamentals of aerospace feedback control theory, integration of airplane stability matrices and analysis of nonlinear equations of motion, trajectory analysis under various initial conditions, and modes of instability encountered during such motion. Prerequisites: MEEN 271 and 374.

462. **ENGINEERING DESIGN: MATERIALS AND MANUFACTURING** (Credit, 3 hours). Involves materials selection in mechanical design, materials manufacturing and processing, design, selection problems, considerations of quality control, and failure analysis. Prerequisites: MEEN 335 and consent of instructor.

464. **MECHATRONICS** (Credit, 3 hours) (Lec., 2 hour; Lab, 2 hours). Covers computer control of electromechanical systems, automatic data acquisition, computerized instrumentation and testing. The embedded computer might be a combination of microprocessors, micro-controllers, personal computers, and /or programmable controllers. The students will design, assemble, and test actual electro-mechanical systems. Prerequisite: Consent of instructor.

467/468. **TOPICS IN MECHANICAL ENGINEERING** (Credit, 3 hours each). Investigation of selected mechanical engineering topics including, but not limited to, mass transit, advanced mechanical design, advanced metallurgy, stress analysis, internal combustion engine, etc. Prerequisite: Consent of instructor.

471. **COMPUTER-INTEGRATED MANUFACTURING** (Credit, 3 hours). Presents a systematic approach to computer-aided manufacturing and the general principles of CAD/CAM Integration. Elements of computer graphics, engineering data base, computer process control, group technology concepts, and applications are covered. Prerequisite: Consent of instructor.

474. **ROBOTICS AND AUTOMATED SYSTEMS** (Credit, 3 hours). Investigates the area of programming mobile manipulative systems, including robotics, machine vision, automated storage and retrieval systems, and mobile manipulators. The principles and technology of each of these areas are considered along with an analysis of each system as they relate to the factory of the future. Prerequisite: Consent of instructor.

497/498. **SENIOR PROJECTS** (Credit, 3 hours each) (Lec., 2 hours; Proj., 2 hours each). Involves a study of an engineering problem under faculty supervision. One or more of the following are required: a technical report, a computer program,

a set of engineering drawings, or a prototype model. Emphasis is on current industrial problems. Individual project accepted by special permission. Prerequisite: Senior standing.

## **MILITARY SCIENCE (MILS)**

100. **FUNDAMENTALS OF LEADERSHIP AND MANAGEMENT** (Credit, 1 hour). This course introduces issues and competencies that are central to a commissioned officer's responsibilities. These initial lessons establish a framework for understanding officership, leadership, and Army values. Additionally, the semester address "life skills" including fitness, communication, and time management.

101. **MILITARY SCIENCE AND LEADERSHIP** (Credit, 1 hour). Presents fundamental leadership concepts and doctrine. Cadets practice basic skills that underlie effective problem solving, apply active listening and feedback skills, examine factors that influence leader group effectiveness and examine the officer experience.

110. **LEADERSHIP LABORATORY** (Credit, 1 hour). Acquaints the MS I cadets (freshmen) with the basic fundamentals. Provides the cadets with practical experience by exposing them to "hands-on" training in Drill and Ceremonies (military formations, commands, and movements), field craft, squad tactics, map reading, weapons maintenance, and first aid. Students gain a basic understanding of the unique aspects of the officer corps, fundamentals of leadership and decision-making, Army's institutional values, and principles of individual physical fitness and healthy lifestyle.

111. **LEADERSHIP LABORATORY** (Credit, 1 hour). Advanced fundamentals and practical application of MILS 110. Spring.

200. **APPLIED LEADERSHIP AND MANAGEMENT** (Credit, 1 hour). Development of knowledge of self, self-confidence, and individual leadership skills, develop problem solving and critical thinking skills, and how to apply communication, feedback and conflict resolution skills. Emphasis is on experiential learning with cadets participating in various practical exercises and experiences.

201. MILITARY SCIENCE AND LEADERSHIP (Credit, 1 hour). Development of knowledge of self, self-confidence, and individual leadership skills, develop problem solving and critical thinking skills, and how to apply communication, feedback and conflict resolution skills. Focus is on experiential learning with cadets participating in various group practical exercises and experiences that emphasize various professional leadership competencies and insights.

210. LEADERSHIP LABORATORY (Credit, 1 hour). Practical application of MILS 200. A study of principles and techniques of command and control of small elements. The course provides a variety of situational exercises, athletic events, and adventure type training experiences.

211. LEADERSHIP LABORATORY (Credit, 1 hour). A continuation of MILS 210 with a requirement to perform more difficult tasks.

300. ADVANCED LEADERSHIP AND MANAGEMENT (Credit, 2 hours). Examines basic skills that underlie effective problem solving. Cadets are encouraged to synthesize lessons to form broader perspectives, deeper insights, and more robust problem solving abilities, by the use of case studies and simulations that require the use of skills and knowledge learned in a wide variety of earlier lessons. Develops cadet leadership competencies, prepare for success, analyze the role officers played in the transition of the Army from Vietnam to the present, review the features and execution of the Leadership Development Program, analyze military missions, plan military operations, and execute squad battle drills.

301. ADVANCED LEADERSHIP AND MANAGEMENT (Credit, 2 hours). Probes leader responsibilities that foster an ethical command climate. Develops cadet leadership competencies, prepare for success at National Leadership Development and Assessment Camp (LDAC), recognize the leader's responsibility to accommodate subordinates' spiritual needs, apply principles and techniques of effective written and oral communications.

310. LEADERSHIP LABORATORY (Credit, 1 hour). Practical exercises in command and control of small unit elements. Cadets review the features and execution of the Leadership Development Program, analyze military missions and plan military operations, execute squad battle drills.

311. LEADERSHIP LABORATORY (Credit, 1 hour). A continuation of MILS 310 with emphasis on preparation for National Leadership Development and Assessment Camp (LDAC) and the Army Physical Fitness Test (APFT).

306. AMERICAN MILITARY HISTORY (Credit, 3 hours). Surveys the military history of the United States from the American Revolution to the present and studies the effect of military history in the development of United States society.

400. THEORY AND DYNAMICS (Credit, 2 hours). Discusses staff organization, functions, and processes, analyzes counseling responsibilities and methods, examines principles of subordinate motivation and organizational change, and the application of leadership and problem solving principles to a complex case study/simulation.

401. SENIOR SEMINAR IN LEADERSHIP/MANAGEMENT (Credit, 2 hours). Discusses legal aspects of decision making and leadership, analyzes Army organization for operations from the tactical to strategic level, assesses administrative and logistics management functions, discusses reporting and permanent change of station (PCS) process, performance of platoon leader actions, and examines leader responsibilities that foster an ethical command climate.

410. LEADERSHIP LABORATORY (Credit, 1 hour). Practical exercises in staff organization, functions, and processes, analyzes counseling responsibilities and methods, examines principles of subordinate motivation and organizational change, and the application of leadership and problem solving principles to a complex case study/simulation. Cadets conduct weekly training meetings.

411. LEADERSHIP LABORATORY (Credit, 1 hour). Provides cadets the opportunity to apply principles and techniques learned in MILS 410. Emphasizes the conduct of training sessions by cadets.

**MUSIC (MUSC)****Music Theory, History, and Literature**

100. INTRODUCTION TO MUSIC THEORY (Credit, 2 hours). Instruction in the rudiments of music, including notation, scales, key signatures, intervals, rhythm, and meter. Successful completion of course is prerequisite for advancement to MUSC 102 for majors or minors whose entry tests indicate insufficient background for entry-level. Recommended for non-majors who wish to acquire basic knowledge of music fundamentals.

102/103. HARMONY (Credit, 2 hours each) (Lec. and Lab). First-year instruction in the basic foundations of harmonic structure, including triads, chord construction, part writing, harmonic progression, voice leading, dominant seventh, and secondary dominant chords. Techniques of common chord modulation and the realization of figured bass also studied. Introduction to creative elements of composition, incorporating and writing of simple melodies in vocal style, composing for small ensembles, and discussion of problems in composition. Computer-assisted instruction. Courses must be taken in sequence. MUSC 102 is a prerequisite for 103.

104/105. EAR TRAINING AND SIGHT-SINGING (Lecture and Lab). (Credit, 2 hours each). Basic musicianship course in ear training and sight-reading; including melodic and harmonic dictation. Computer-assisted instruction. Prerequisite: Passing grade on entry test or MUSC 100.

114. MUSIC TECHNOLOGY (Formerly MUSC 241)(Credit, 2 hours; Contact, 2 hours). Course familiarizes students with the basic principles of computers and computer use, and the use of computers in music applications. Hands-on experience with computer-based music sequencing, music notation programs, digital synthesis, and computer-controlled playback in both analog and digital formats. Through multimedia technologies, a student learns to interface numerous music technologies in a multi-environment context that includes desktop publishing, CD-ROM, music data storage, performance technologies, music theory, applied music aids, and career development resources. Required for all music majors and fulfills the computer literacy requirement. Fall.

200. ENJOYMENT OF MUSIC (Credit, 3 hours). Course designed to foster informed listening skills which promote the development of a curiosity about, and enthusiasm for the enjoyment of many types and styles of music. Emphasis on the analysis of aesthetic qualities of music in conjunction with references to cultural and historical influences.

202/203. HARMONY (Credit, 2 hours each) (Lec. and Lab, 3 hours). Second-year instruction on construction and function of diminished, non-dominant ninth, eleventh, and thirteenth chords. Techniques of sequence writing, advanced modulation and chromatic harmony, including Neapolitan sixth and augmented sixth chords. Emphasis on composing works in varied styles and from different periods. Computer-assisted instruction. Courses must be taken in sequence. MUSC 103 is a prerequisite for 202.

204/205. EAR TRAINING AND SIGHT-SINGING. (Credit, 2 hours each). A continuation of the work begun in Music 104-105. Computer-assisted instruction. Pre-requisite: MUSC 105.

250/251. MUSIC HISTORY AND LITERATURE (Credit, 3 hours each) (Contact, 3 hours). Course combines the study of the history and the presentation of outstanding examples of the literature of music from various periods. Attention given to the social, political, and economic conditions under which the art of music developed. MUSC 250, Fall; 251, Spring.

302. FORM AND ANALYSIS I (Credit, 2 hours). An introduction to analysis of musical form, beginning with structural elements and proceeding to the analysis of classical forms from part-songs to simpler compound forms including Minuet and First Rondo. Prerequisite: MUSC 202. Fall.

303. FORM AND ANALYSIS II (Credit, 2 hours). A continuation of MUSC 302. More detailed analysis of forms introduced in MUSC 302 and analysis of larger forms, such as 3rd Rondo, Sonata Allegro, Theme and Variations and Fugue. Prerequisite: MUSC 302. Spring elective as needed.

304. COUNTERPOINT I (Credit, 2 hours). Strict counterpoint in two, three, and four parts using the five-species approach. Modal counterpoint. Prerequisite: MUSC 203. Fall.
305. COUNTERPOINT II (Credit, 2 hours). Study of 18th-century instrumental styles including invertible counterpoint, chorale prelude, and two- and three-part inventions. Prerequisite: MUSC 203. Elective as needed.
352. THE MUSIC OF BLACK AMERICANS (Credit, 3 hours). Provides experiences that will result in a deeper appreciation for the rich heritage of music that developed in the course of the black sojourn in America from slavery through freedom. Music of Africa and of the African diaspora also studied. Can be taken as a humanities elective. Fulfills African-American experience and humanities requirement. Fall or spring, alternate years as needed.
353. HISTORY OF JAZZ (Credit, 3 hours). A study of jazz from its roots, musical development and present expression through fundamental concepts, personalities, and their music and experiences. Can be taken as humanities elective. Fulfills the African-American experience requirement. Fall, Spring.
432. ORCHESTRATION (Credit, 2 hours each). General technical abilities, limitations, transpositions, written and sounding ranges of the musical instruments used in modern orchestras and bands through exercises in scoring for the various families and groups of instruments and for full orchestra. Prerequisites: MUSC 203. Fall.
433. BAND ARRANGING (Credit, 2 hours). Course designed to enable students to gain skills in scoring and arranging for both concert and marching bands. Prerequisites: MUSC 203. Spring as needed.
314. SURVEY OF MUSICAL INSTRUMENTS (Credit, 1 hour; Contact, 2 hours). Course designed to provide the non-instrumental major with a basic, functional knowledge of band, string, and fretted instruments and their methods of tone production. Basic skills of teaching the instruments. Required for piano and voice majors, and vocal music and piano emphasis secondary music education majors. Must be taken prior to MUSC 416 and 417. Fall, as needed.
315. STRINGS CLASS (Credit, 2 hours). Class lessons in techniques of group instruction on all string instruments. Fall or Spring as needed.
316. BRASSWINDS CLASS (Credit, 2 hours). Class lessons in techniques of group instruction on all brass instruments. Spring.
317. ART OF ACCOMPANYING (Credit, 2 hours). Basic principles of accompaniment playing with emphasis upon analytical examination of vocal and instrumental materials more generally used in high school. Prerequisite: PIANO 313. Fall or spring as needed.
318. WOODWINDS CLASS (Credit, 2 hours). Class lessons in techniques of group instruction on all woodwind instruments. Fall.
319. PERCUSSION CLASS (Credit, 2 hours). Class lessons in techniques of group instruction of all percussion instruments. Spring.
327. FUNDAMENTALS OF MUSIC (Credit, 3 hours). Designed to help students acquire an understanding of the fundamentals of music and to equip prospective teachers with the skills needed to provide musical experiences for elementary school children through singing, listening to music, and playing of melodic and rhythmic instruments. Fall, spring, summer.
371. PIANO PEDAGOGY (Credit, 2 hours). Techniques of teaching piano in groups of varying sizes, including classroom instruction. Attention is given to the examination and analysis of materials. Prerequisite: MUSC 313. Fall, as needed.
391. CHORAL METHODS (Credit, 2 hours). Study of the techniques involved in the teaching of choral music with special emphasis placed on vocal production, score analysis, and a study of choral literature. Prerequisite: MUSC 336. Spring, as needed.
402. VOCAL PEDAGOGY (Credit, 2 hours). Methods of teaching the techniques of voice production and its application. Prerequisite: MUSC 237. Fall, as needed.

416. PRINCIPLES OF TEACHING MUSIC IN THE ELEMENTARY GRADES (Credit, 2 hours) (CRIN 416). Teaches the objectives, methods, instructional and evaluation procedures, along with materials used in the teaching of music in the elementary school, including unit and lesson planning. Functional experiences with the soprano recorder, autoharp, guitar, and Orff instruments. Observation of elementary vocal and instrumental music classes in the public schools. Prerequisite: Completion of core music courses. The course is a prerequisite for MUSC 417. Fall.

417. PRINCIPLES OF TEACHING MUSIC IN THE SECONDARY SCHOOL (CRIN 417). (Credit, 2 hours). The objectives, methods, materials, and instructional and evaluation procedures used in music in secondary schools. Special attention given to teaching music courses in secondary schools, including chorus and general music, boys' and girls' glee clubs, orchestra, and special theory classes. Students learn evaluation procedures, tests, and measurements appropriate to secondary school music. Spring.

418. CHORAL CONDUCTING (Credit, 2 hours). The principles of conducting vocal ensembles with special emphasis placed on vocal production, choral blend, score analysis, and score interpretation. Laboratory experience with vocal ensemble required. Fall.

419. INSTRUMENTAL CONDUCTING (Credit, 2 hours). The principles of conducting instrumental groups (orchestra and band), stressing effective conducting techniques, and scoring analysis and interpretation. Spring.

435. INSTRUMENTAL METHODS (Credit, 2 hours). The study of the technique involved in teaching instrumental music. Analytical examination of band and orchestral literature. Prerequisites: MUSC 315, 316, 318, 319. Fall.

### **Ensembles**

Ensembles provide laboratory experiences in vocal and instrumental music, and opportunities for the study and performance of music of many styles and periods. Required for majors and minors, open to all students. Audition required.

124-125, 224-225, 324-325, 424-425. (Credit, 1

hour each). In class schedules for each semester, ensemble courses will carry the following rubrics: MUCB, Concert Band; MUCC, Concert Choir; MUEB, Brass Ensemble; MUJE, Jazz Ensemble; MUMB, Marching Band MUWE, Woodwind Ensemble; MUPE, Percussion Ensemble; MVOW Opera Workshop.

### **Applied Music**

Applied music is the intensive study of the principal performance medium of the music major or minor. Students receive one hour per week of private instruction. Voice class and secondary piano meet twice weekly. All applied music courses are taken in sequences; successful completion of each level is prerequisite to advancement to the next level.

The sequences of major and secondary applied music are as follows. All courses must be taken in sequence.

### **Piano**

Major: 112, 113, 212, 213, 312, 313, 412, 413  
Secondary: 108, 109, 208, 209, 308, 309

### **Voice**

Major: 136, 137, 236, 237, 336, 337, 436, 437  
Secondary (Class): 134, 135, 234, 235, 334, 335

### **Instrument**

Major: 120, 121, 220, 221, 320, 321, 420, 421  
Secondary: 110, 111, 210, 211

Note: All levels of applied music for each concentration are offered in the fall and spring semester, and as needed.

### **Performance and Recital Class**

130/431. (Credit, 0 hours). An extension of applied music study each semester of residency (except during student teaching). Students beyond the first semester of instruction in applied music must perform at least once each semester.

### **APPLIED PIANO**

112/113. PIANO (Credit, 2 hours each). Major and minor scales for four octaves in parallel and contrary motion. Technical exercises, harmonization, transposition, and sight-reading skills. Selected repertoire

including Bach inventions, Handel suites, 18th century sonatinas or sonatas; 19th century compositions such as the Schumann Kinderscenen, Mendelssohn Songs Without Words, or equivalent. Performance required in MUSC 112.

212/213. PIANO (Credit, 2 hours each). Major and minor scales for four octaves. Arpeggios, broken chord study; selected technical exercises by Czerny, Cramer, et al. Bach or Handel suites; sonata by Haydn, Mozart, or Beethoven; 19th century composition such as preludes, nocturnes, etudes and waltzes by Chopin, Schumann, Mendelssohn, Brahms, or equivalent; 20th century compositions by Gershwin, Kodaly, Bartok, or equivalent. Two solo performances. Prerequisites: MUSC 112, 113.

312/313. PIANO (Credit, 1 hour each). Technical exercises continued. Classical sonata or equivalent forms by Schubert, Beethoven, Haydn, or Mozart. Extended compositions of the Romantic period such as ballads, rhapsodies or equivalent by Chopin, Brahms, Schumann, Schubert, or Liszt, and compositions by various 20th century composers. Performance required. Prerequisites: MUSC 212, 213.

412. PIANO (Credit, 2 hours). Continuation of performance literature and experiences in accompanying for solo and ensembles. Two solo performances. Prerequisites: MUSC 312, 313.

413. PIANO (Credit, 2 hours). Continued study of piano literature of different periods. Preparation and presentation of senior recital.

## SECONDARY PIANO

108/109. PIANO. (Credit, 1 hour, Contact, 1 hour). Required of all vocal and instrumental music majors and minors. A fundamental approach to playing and understanding the keyboard, physical coordination exercises, execution of major and minor scales for one octave, music terminology, transposition study and selected piano repertoire. Final examination - piano jury is required. Fall, spring.

208/209. PIANO (Credit, 1 hour; Contact, 1 hour). Major and minor scales for two octaves and study of the chromatic and pentatonic or

whole-tone scales. The inclusion of melodic harmonization using the primary (I,IV,V) chords; inclusion of chord study to include triads and sevenths in all inversions. Sight reading, fundamental accompanying, and selected piano repertoire are required. Final Examination - Piano Jury is required; emphasis is on preparation for the Piano Proficiency Examination which is required for graduation. Prerequisites: PIANO 108 and 109 or the equivalent. Fall, Spring.

308/309. PIANO (Credit, 1 hour, Contact, 1 hour). Major and minor scales for two octaves and related study of chromatic, pentatonic, whole tone scales, and supplementary technical exercises. Emphasis on transposition, melodic harmonization, skills in accompanying, and selected piano repertoire. Final Examination, piano jury required. Fall, spring. Prerequisites: Secondary piano courses 108 through 209 or equivalent.

## VOICE

134/135. CLASS VOICE (Credit, 1 hour; Contact, 2 hours each). Basic principles of establishing confidence and understanding concepts of vocal performance. Techniques in breathing and phonation and placement. Examination of basic vocal literature.

136/137. APPLIED VOICE (Credit, 2 hours each). Fundamentals of singing in order to develop the correct mechanism and vocal techniques, i.e., respiration, resonance, phonation, dictation, articulation, and other pedagogical approaches.

234/235. CLASS VOICE (Credit, 1 hour each; Contact, 2 hours). Emphasis on the proper use of vowels and consonants. Learning to transform words into a smooth vocal line. Recognition of singing as "performing." Emphasis on musicianship for singers.

236. APPLIED VOICE (Credit, 2 hours). Vocalises constructed on diminished and augmented arpeggios. One aria from an oratorio; minimum of four to six songs in English and early Italian, including Purcell and Handel. At least two must be memorized.

237. APPLIED VOICE (Credit, 2 hours). A continuation of vocal development; one aria from an Italian opera, minimum of four to

six songs in English (contemporary black art songs, spirituals). At least two must be memorized.

334/335. CLASS VOICE (Credit, 1 hour each; Contact, 2 hours). Emphasis on interpretation, expression, phrasing, sensitivity to dynamics, and tempo. Evaluation of the "total" vocal performance, emphasis upon analytical examination of relevant vocal materials that can be used in public schools.

336. APPLIED VOICE (Credit, 2 hours). A continuation of vocal development; minimum of four to six songs in German. At least two must be memorized.

337. APPLIED VOICE (Credit, 2 hours). A continuation of vocal development and study of vocal literature. Selected vocal compositions from composers of the 20th century. At least two must be memorized.

436. APPLIED VOICE (Credit, 2 hours). Preparation for public recital.

437. APPLIED VOICE (Credit, 2 hours). Performance of public recital.

## WOODWINDS

120/121. CLARINET (Credit, 2 hours each). Tone production, breath control, embouchure development, articulation, and mechanisms. Major and chromatic scales with emphasis on dynamic control. Selected studies.

220/221. CLARINET (Credit, 2 hours each). Continuation of MUSC 121. Major and minor scales and arpeggios. Selected studies.

320/321. CLARINET (Credit, 2 hours each). Major and minor scales in more rapid tempi. Selected studies.

420/421. CLARINET (Credit, 1 hour each). Advanced Studies. Standard sonata repertory. Preparation of public recital.

120/121. OBOE (Credit, 1 hour each). Correct posture, breathing, placement of reed and tongue, tone development and reed making, major scale patterns and etudes. Selected studies.

220/221. OBOE (Credit, 1 hour each). Continuation of major and minor scale studies, arpeggios, vibrato, and sight-reading. Selected studies.

320/321. OBOE (Credit, 1 hour each). Major and minor scales in more rapid tempi, and reed making. Solos by Haydn and Vivaldi. Selected studies.

420/421. OBOE (Credit, 2 hours each). Reed making, advanced exercises. Modern works by Rothwell, Vol. III. Solos by Mozart, Handel, and Hindemith. Preparation of public recital.

120/121. SAXOPHONE (Credit, 2 hours each). Tone production, breath control, embouchure development, and articulation. Major and chromatic scales with emphasis on dynamic control. Selected studies.

220/221. SAXOPHONE (Credit, 2 hours each). Continuation of MUSC 121. Major and minor scales and arpeggios. Selected studies and literature.

320/321. SAXOPHONE (Credit, 2 hours each). Continuation of technical studies major and minor scales in more rapid tempi. Selected studies.

420/421. SAXOPHONE (Credit, 2 hours each). Extension of normal register. Advanced studies. Preparation of public recital.

120/121. FLUTE (Credit, 1 hour each). Tone placement, breath control, and articulation. Major and chromatic scales and arpeggios. Selected studies.

220/221. FLUTE (Credit, 2 hours each). Continuation of technical studies and exercises. Major and minor scales and arpeggios. Selected studies.

320/321. FLUTE (Credit, 2 hours each). Major and minor scales in more rapid tempi. Selected studies and literature. Solos by representative composers from various periods

420/421. FLUTE (Credit, 2 hours each). Selected studies and literature. Preparation of public recital.

120/121. BASSOON (Credit, 2 hours each). Embouchure, breath control, tone production, articulation, and intervals. Major and chromatic scales, and reed making. Selected studies.

220/221. BASSOON (Credit, 2 hours each). Continuation of MUSC 121. Selected studies.

320/321. BASSOON (Credit, 2 hours each). Major and minor scales in more rapid tempi. Selected studies and literature.

420/421. BASSOON (Credit, 2 hours each). Advanced and orchestral studies. Preparation of public recital.

## PERCUSSION

120/121. SNARE DRUM, MARIMBA, XYLOPHONE (Credit, 2 hours each). Stick control, single stroke roll, and 26 basic rudiments. Study of major scales, arpeggios, and three and four mallet techniques.

220/221. SNARE DRUM, MARIMBA, XYLOPHONE (Credit, 2 hours each). Technique studies by Sternberg. Study of minor and chromatic scale patterns and minor, augmented, diminished, and dominant 7th chords. Etudes and the bass clef. Solo literature.

320/321. SNARE DRUM, MARIMBA, XYLOPHONE, TYMPANI (Credit, 2 hours each). Continuation of MUSC 221. Introduction to drum set and traps. Technique studies. Study of symphonic literature for tympani.

420/421. SNARE DRUM, MARIMBA, XYLOPHONE, TYMPANI (Credit, 2 hours each). Introduction to multipercussion literature, mallet inversions. Arrangements of standard literature as four-mallet solos for the marimba and xylophone. Solos such as the Creston Concertino for Marimba and Orchestra.

## BRASSES

120/121. TRUMPET (Credit, 2 hours each). Embouchure development, all major scales, and arpeggios in one octave and a fifth and two octave ranges. Attack and release, single, double, and triple articulations. Lip slur studies and applicable solo literature. Performance required for MUSC 121.

220/221. TRUMPET (Credit, 2 hours each). All major and minor scales and arpeggios in two octave ranges; chromatic scale studies in rapid tempi; alternate fingerings; studies on ornaments; introduction of transposition (trumpet in C); lip slurs and lip trills,

and applicable solo literature. Performance required. Prerequisites: MUSC 120, 121.

320/321. TRUMPET (Credit, 2 hours each). All major and minor scales and arpeggios continued in more rapid tempi; chromatic scale studies continued in rapid tempi; transposition (trumpet in A and Eb); lip slurs and lip trills continued. Cadenza performance (style and interpretation); range extension and applicable materials. Performance required for both. Prerequisites: MUSC 220, 221.

420/421. TRUMPET (Credit, 2 hours each). Major, minor and chromatic scales continued in rapid tempi; major and minor arpeggios in varied rhythmic configurations; continued transposition (trumpet in G); review and compilation of studies. Recital repertory comprised of solo literature studied during the previous seven courses. Prerequisites: MUSC 320, 321

120/121. FRENCH HORN (Credit, 2 hours each). Production of tone, use of breath; formation of embouchure; use of tongue; major and minor scales, chords, and arpeggios in one octave; and intervals, slurs, attacks, release, and intonation. Study of the natural horn. Use of the double horn fingering and applicable solo literature. Performance required for MUSC 121.

220/221. FRENCH HORN (Credit, 2 hours each). Scales and arpeggios, slurred and staccato, over entire range of the instrument; lip trills; double and triple tonguing in chromatic and diatonic passages; all transpositions; and applicable solo literature. Performance required for both. Prerequisites: MUSC 120, 121.

320/321. FRENCH HORN (Credit, 2 hours each). Continuation of major and minor scales, arpeggios, chords, dominant seventh and diminished chords, major scales in thirds; four transpositions by use of clefs and applicable solo literature. Performance required for both. Prerequisites: MUSC 220, 221.

420/421. FRENCH HORN (Credit, 2 hours each). Orchestral excerpts from the Symphonic Repertoire by Chambers, Vol. I. Orchestral excerpts from the symphonic works of Strauss. Senior recital should be representative of works from all periods.

Suggested from Corelli, Strauss, Beethoven, and Hindemith. Prerequisites: 320, 321.

120/121. TROMBONE (Credit, 2 hours each). Tone production, breath control, basic technique, legato playing; major and minor scales and arpeggios; and applicable solo material. Performance required for 121.

220/221. TROMBONE (Credit, 2 hours each). Extend range and increase flexibility, triple-tonguing, tenor clef, and applicable material. Prerequisites: 120, 121.

320/321. TROMBONE (Credit, 2 hours each). Velocity studies, alto clef, double-tonguing, and applicable material. Performance required for both. Prerequisites: 220, 221.

420/421. TROMBONE (Credit, 2 hours each) Refinement of technique and preparation and presentation of senior recital. Prerequisites: 320, 321.

120/121. EUPHONIUM (Credit, 2 hours each). Tone production, breath control, basic technique, major and minor scales and arpeggios, and applicable solo literature. Performance required for 121.

220/221. EUPHONIUM (Credit, 2 hours each). Extension of range and flexibility, triple tonguing, use of both "F" and "G" clefs and applicable solo literature. Performance required. Prerequisites: 120, 121.

320/321. EUPHONIUM (Credit, 2 hours each). Velocity studies increase in dynamic range; double tonguing and applicable solo literature. Performance required. Prerequisites: 220, 221.

420/421. EUPHONIUM (Credit, 2 hours each). Refinement of technique musicianship and solo style. Preparation and presentation of senior recital. Prerequisites: 320, 321.

120/121. TUBA (Credit, 2 hours each). Tone production, breath control, basic technique, major and minor scales and arpeggii, and applicable solo literature. Performance required for 121.

220/221. TUBA (Credit, 2 hours each). Extension of range, flexibility, triple tonguing, and applica-

ble solo literature. Performance required for both. Prerequisites: 120, 121.

320/321. TUBA (Credit, 2 hours each). Increase in velocity and dynamic range, double tonguing, and applicable solo literature. Performance required for both. Prerequisites: 220, 221.

420/421. TUBA (Credit, 2 hours each). Refinement of technique, musicianship, and solo style, and orchestral studies. Preparation and presentation of senior recital. Prerequisites: 320, 321.

## STRINGS

120/121. STRINGS (Credit, 1 hour each). Study of major and minor scales and arpeggios through three octaves and through four sharps and flats. Concentrated emphasis on bowing and left-hand technique. Selected studies according to level of development.

220/221. STRINGS (Credit, 1 hour each). Continuation of MUSC 121. Scales in all keys. Studies in double-stopping and chromatics. Selected etudes and compositions from Bach, Handel, Vivaldi, and Mozart.

320/321. STRINGS (Credit, 1 hour each). Continuation of technical study varied according to need. Study of sonatas and concerti of increased difficulty by 17th and 18th century composers. Appropriate etudes selected.

420/421. STRINGS (Credit, 1 hour each). Recital preparation. Selected compositions from 19th and 20th century composers. Recital chosen should have representative works from three periods of music.

## JAZZ STUDIES

106/107. JAZZ IMPROVISATION (Credit, 2 hours). Each course is based upon the processes that take place when jazz players improvise. The underlying principles of Afro American-based music, rhythm in jazz, jazz melody, harmony in jazz, the phenomenon of swing, the evolution of swing, ear training, scales, chords, meter, and jazz articulation. Fall, spring.

114. MUSIC TECHNOLOGY (Formerly MUSC 241). (Credit, 2 hours). See complete description on page 271. Fall.

116. INTELLECTUAL PROPERTY (Credit, 2 hours). Understanding of intellectual property, contracts, taxes, and entrepreneurship. Fall, alternate years.

118. ECONOMICS OF THE MUSIC BUSINESS (Credit, 2 hours). Potential in the music field, including job opportunities for performers, distributors of records, tapes, and videos. Entrepreneurial opportunities and investment in the music industry are discussed. Spring, alternate years.

122. ELECTRONIC PERCUSSIONS (Credit, 2 hours). To develop proficiency on all types of electronic percussion instruments which will enable programming and sequencing any given rhythm using drum computers. To develop the knowledge of selecting compatible rhythms essential in creating a "groove" or simulating the realization of the music being played. Fall, spring.

206/207. JAZZ IMPROVISATION (Credit, 2 hours). Each course covers tune studies, creators of jazz; and melodic, rhythmic, and harmonic aspects. Fall, spring.

241. RECORDING ARTS (Credit, 2 hours). Introduction to recording techniques. Students learn to manipulate and understand the physical aspects of sound, psycho-acoustics, stairway sound, digital systems, signal, and processing. Spring.

243. LOUISIANA ETHNIC MUSIC (Credit, 2 hours). A study of the diverse musical cultures of Louisiana (blues, gospel, Zydeco, black Indians, jazz, rhythm, and blues) within the historic context. A study of the musical traditions of North Louisiana also will be included. Fall.

244. CORRELATED STUDIES IN LOUISIANA MUSIC (Credit, 2 hours). Course enables instrumentalists, vocalists, and composers to correlate diverse and contrasting styles of Louisiana music. A music education/pedagogy component of the course enables students to develop course syllabi, bibliographies, and discographies. Strategies of teaching multicultural music. Class participants will learn to develop "informances" and concerts of Louisiana music (sacred and secular music in all of the indigenous styles of Louisiana music, by Louisiana composers, performers, and producers). Elective, offered as needed as independent project.

352. THE MUSIC OF BLACK AMERICANS (Credit, 3 hours). See complete description on page 270. Fall or spring, alternate.

353. HISTORY OF JAZZ (Credit, 3 hours). Fall, spring.

## NAVAL SCIENCE (NAVS)

100/103. NAVAL LABORATORY (Credit, 1 hour each). Conducted during the freshman term. This course is designed to introduce freshmen to military structure and physical fitness utilizing unit esprit de corps. The laboratory introduces drill and naval ceremony training, general military training, and professional development. In preparation for the physical rigors of being a Naval Officer, this course also offers aerobic and strength training, personal water safety, and swim testing. In this course, military smartness, courtesies, and discipline are emphasized.

101. INTRODUCTION TO NAVAL SCIENCE (Credit, 3 hours). A general introduction to the naval profession and to concepts of sea power. Instruction emphasizes the mission, organization, and warfare components of the Navy and Marine Corps. An overview of officer and enlisted designators and rates, training and education, and career patterns. Covers naval courtesy and customs, military justice, leadership, and nomenclature. Course exposes the student to the professional competencies required to become a naval officer.

102. SEA POWER AND MARITIME AFFAIRS (Credit, 3 hours). A survey of the naval history from the American Revolution to the present with emphasis on major developments. Included is an in-depth discussion of the geopolitical theory of Mahan. Addresses present day concerns in sea power and maritime affairs including the economic and political issues of merchant marine commerce, the law of the sea, and a view of present U. S. naval strategy.

200/203. NAVAL LABORATORY (Credit, 1 hour each) Conducted during the sophomore term. This course is designed to promote professional development by offering the student initial experiences in military leadership, and to develop the student's integrity, honor, and responsibility. This course helps the student develop new leadership and technical skills. Laboratory topics are

drill and ceremonies, physical fitness and swimming testing, safety awareness, general military education, and professional development.

201. LEADERSHIP AND MANAGEMENT (Credit, 3 hours). A comprehensive advanced level study of organizational behavior and management in the context of the naval organization. Topics include a survey of the management functions of planning; organizing and controlling; introduction to individual and group behavior in organizations; and extensive study of motivation and leadership. Major behavioral theories are explored in detail. Practical applications are explored by the use of experiential exercises, case studies, and laboratory discussions. Other topics developed include decision making, communication, responsibility, authority, and accountability.

202. NAVAL SHIPS SYSTEMS I (Credit, 3 hours). A detailed study of ship characteristics and types including ship design, hydro dynamic forces, stability, compartmentation; propulsion, electrical and auxiliary systems, interior communications, ship control, and damage control. Included are basic concepts of the theory and design of steam, gas turbine, and nuclear propulsion. Also discussed are shipboard safety and firefighting.

300/303. NAVAL LABORATORY (Credit, 1 hour each) Conducted during junior term. This course is designed to introduce midshipmen to the naval career development ladder within each warfare area. This course helps develop advanced leadership skills by offering the student more responsibility. This course helps prepare the student for summer training in the designated warfare community. Laboratory topics are drill and ceremonies, physical fitness and swimming testing, safety awareness, general military education, and professional development.

301. NAVIGATION (Credit, 3 hours). An in-depth study of piloting and celestial navigation including theory, principles, and procedures. Students learn piloting navigation including the use of charts, visual and electronic aids, and the theory and operation of magnetic and gyrocompasses. Students develop practical skills in weather; plotting; use of navigation instruments; and types and characteristics of electronic navigation systems.

302. NAVAL OPERATIONS AND SEAMANSHIP (Credit, 3 hours). A study of the international and inland rules of the nautical road; relative-motion vector-analysis theory; relative motion problems; formation tactics; and ship employment. An introduction to naval operations; ship behavior and characteristics in maneuvering, applied aspects of ship handling. The study of internal/external communications, shipboard evolutions and Command and Control (C4I).

310. EVOLUTION OF WARFARE (Credit, 3 hours). Course traces historically the development of warfare from the dawn of recorded history to the present, focusing on the impact of major military theorists, strategists, tacticians, and technological developments. The student acquires a basic sense of strategy, develops an understanding of military alternatives, and sees the impact of historical precedent on military thought and actions.

311/313. MARINE OPTION LABORATORY (Credit, 1 hour each). Conducted during the junior term. Course designed to promote the overall development of the individual, especially in preparation for Officer Candidate School. The laboratory is intended for topics such as drill and ceremonies, physical fitness and swimming testing, safety awareness, general military education, and professional development.

400/403. NAVAL LABORATORY (Credit, 1 hour each). Conducted during the senior term. This course prepares the student for commissioned service through active leadership in the unit. The course challenges the student to manage, plan, and execute various evolutions. This course offers the student the necessary physical and intellectual training and development that will serve as guideposts in the most demanding of jobs, as Naval or Marine Corps officers. Laboratory topics are drill and ceremonies, physical fitness and swimming testing, safety awareness, general military education, and professional development.

401. NAVAL SHIPS SYSTEMS II (Credit, 3 hours). Course outlines the theory and employment of weapons systems. Explores the processes of detection, evaluation, threat analysis, weapon selection, delivery, guidance and explosives. Fire control systems and major weapons types are discussed, including capabilities and limitations. The

physical aspects of radar and underwater sound are described in detail. The facets of command, control, and communications are explored as a means of weapons system integration.

402. LEADERSHIP AND ETHICS (Credit, 3 hours). This course curriculum was designed to ensure students gain a solid understanding of appropriate Leadership and Ethics standards before commissioning. It is the capstone course of NROTC. It is designed to provide all midshipmen with the ethical foundation and basic leadership tools needed to be effective junior officers and provide the high quality leadership needed in the 21st century. The course will cover the leader's moral and ethical responsibilities to the organization and society, the relationship of integrity, moral courage, and ethical behavior to authority, responsibility, and accountability, and the standards of conduct for military personnel

410. AMPHIBIOUS WARFARE (Credit, 3 hours). A historical survey of the development of amphibious doctrine and the conduct of amphibious operations. Emphasis is placed on the evolution of amphibious warfare in the 20th century, especially during World War II. Present day potential and limitations on amphibious operations, including the rapid deployment force concept, are explored.

411/413. MARINE OPTION LABORATORY (Credit, 1 hour). Conducted during the senior term. Course is designed to promote the overall development of the individual, especially in preparation for commissioning as a second lieutenant in the U.S. Marine Corps. The laboratory is intended for topics such as drill and ceremonies, physical fitness and swimming testing, safety awareness, general military education, and professional development.

## NURSING (NURS)

200. NURSING PROCESS I (Credit, 3 hours). Introduction to basic concepts in nursing. The nursing process is explored in depth along with other theoretical foundations for nursing. Prerequisite: Sophomore standing and permission of department.

201. NURSING PROCESS II (Credit, 6 hours) (Lec., 3 hours; Clinical, 9 hours). Focus is on application of the nursing process in client situations. Basic nursing skills and

assessment are emphasized. Prerequisites: Admission to upper division nursing, Nursing 200, Level I status.

220. NURSING PHARMACOLOGY (Credit, 3 hours) (Lec., 2 hours; Clinical, 3 hours). Introduction to basic principles of pharmacology and related implications. Prerequisites: Admission to nursing, NURS 200, Level I status.

304. HEALTH DEVIATIONS I (Credit, 6 hours) (Lec., 3 hours; Clinical, 9 hours). Focus is on nursing implications for acute, non-complex adult clients. Includes hospital-based practicum. Prerequisites: NURS 200, 201, 220, BIOL 239, Fine Art, PHIL 210, Level II status, and admission to nursing.

305. FUNDAMENTALS OF NURSING RESEARCH (Credit, 3 hours). Introductory nursing research seminar. Major focus is on valuing nursing research and utilization in clinical nursing care. Prerequisites: NURS 200, 201, 220, elementary statistics, LEVEL II status, and admission to nursing.

310. FAMILY DEVELOPMENT I (Credit, 6 hours) (Lec., 3 hours; Clinical, 9 hours). Focus is on assisting childbearing and child-rearing families to maximize health as they experience events related to intrauterine stages of life, the neonatal period, parenting, and issues such as sexuality and reproductive complications. Prerequisites: NURS 304, PSYC 445, and Level II status.

315. FAMILY DEVELOPMENT II (Credit, 6 hours) (Lec., 3 hours; Clinical, 9 hours). Focus is on developing nursing systems to maximize physical and psychosocial family health with emphasis on growth and development from infancy through adolescence. Prerequisites: NURS 304, PSYC 445, and Level II status.

404. ISSUES IN NURSING (Credit, 3 hours). Emphasis on the importance of professional accountability and the legal and ethical premises for decision making in nursing. Prerequisite: Level 3 status.

410. HEALTH DEVIATIONS II (Credit, 6 hours) (Lec., 3 hours; Clinical, 9 hours). Emphasis is on complex adult clients and development of partially and wholly-compensatory nursing systems. Prerequisites: NURS 304, 305, 310, 315, and Level 3 status.

411. INDEPENDENT STUDY (Credit, 1-6 hours). Student provided with independent opportunity to integrate elective areas of interest into the practice of nursing. The student and faculty work together to develop the course objectives and field experience. Prerequisite: Permission of dean.

415. HEALTH DEVIATIONS III (Credit, 5 hours) (Lec., 2 hours; Clinical, 9 hours). Emphasis on development of wholly- compensatory nursing systems to increase coping behaviors for clients with psychosocial health deficits or rehabilitative needs. Prerequisites: NURS 304, 305, 310, 315, and Level 3 status.

417. COMMUNITY AS CLIENT (Credit, 6 hours) (Lec., 3 hours; Clinical, 9 hours). Assist students to design, implement, and evaluate nursing systems to meet the needs of individuals, families, and groups within the community. Community populations at risk, major issues affecting community health, and community health nursing are explored. Prerequisites: NURS 404, 410, 415, and Level 3 status.

418. NURSING LEADERSHIP (Credit, 5 hours) (Lec., 2 hours; Clinical, 9 hours). Principles of motivation and leadership explored along with communication, decision making, change, and group theory. Application of these principles is focus of clinical component. Prerequisites: NURS 404, 410, 415, and Level 3 status.

420. SENIOR SEMINAR (Credit, 2 hours). Focus is on transition into practice. Senior students who are completing their course work for graduation will analyze selected areas of nursing practice. Prerequisite: Level 3 status.

## PHILOSOPHY (PHIL)

200. INTRODUCTION TO PHILOSOPHY (Credit, 3 hours). Introduction to philosophic ideas, problems, and methods through a study of major philosophers and the systems of philosophy.

210. INTRODUCTION TO LOGIC (Credit, 3 hours). Study of traditional logic emphasizing syllogistic theory, validation techniques, and fallacy detection. Includes introduction to elementary symbolic logic, such as truth-tables, sentential calculus, and quantification theory.

220. ETHICS (Credit, 3 hours). Study of ethical principles through focus on moral deliberation, moral criteria, the concept of goodness, and the relation of ethical principles to life situations.

230. PLATO (Credit, 3 hours). Introduction to Plato's theories of ideas, knowledge, palatial thought, virtue, and immortality through selected readings of his major writings.

353. PHILOSOPHY OF RELIGION (Credit, 3 hours). Consideration of basic religious issues such as the concept of God; the problems of sin, evil, and immortality; and the relations between God, man, and the physical world.

415. AMERICAN PHILOSOPHY (Credit, 3 hours). Survey of the development of American philosophy from Jonathan Edwards to John Dewey and his contemporaries.

426. AFRICAN-AMERICAN PHILOSOPHY AND RELIGION (Credit, 3 hours). Study of origins, developments, and current philosophic and religious theories and practices of African Americans.

## PHYSICAL EDUCATION (PHED)

100. PHYSICAL FITNESS ASSESSMENT (Credit, 1 hour) (Contact, 2 hours).

101. MODIFIED PHYSICAL FITNESS (Credit, 1 hour) (Contact, 2 hours) Designed for students with medical conditions which warrant the limitation of physical activity.

110. AEROBIC SWIMMING (Credit, 1 hour) (Contact, 2 hours).

112. WEIGHT TRAINING (Credit, 1 hour) (Contact, 2 hours).

113. AEROBIC DANCE (Credit, 1 hour) (Contact, 2 hours).

114. JOGGING (Credit, 1 hour) (Contact, 2 hours).

122. BEGINNING SWIMMING (Credit, 1 hour) (Contact, 2 hours).

131. TENNIS (Credit, 1 hour) (Contact, 2 hours).

132. GOLF (Credit, 1 hour) (Contact, 2 hours).

133. BADMINTON (Credit, 1 hour) (Contact, 2 hours).

136. BOWLING (Credit, 1 hour) (Contact, 2 hours).

141. VOLLEYBALL (Credit, 1 hour) (Contact, 2 hours).

151. ELEMENTARY MODERN DANCE (Credit, 1 hour) (Contact, 2 hours)

152. BLACK DANCE (primitive) (Credit, 1 hour) (Contact, 2 hours).

153. FOLK, SOCIAL AND SQUARE DANCE (Credit, 1 hour) (Contact, 2 hours).

154. JAZZ DANCE (Credit, 1 hour) (Contact, 2 hours).

### Service Courses

#### (Intermediate and Advanced)

124. INTERMEDIATE SWIMMING (Credit, 1 hour) (Contact, 2 hours).

125. LIFEGUARDING (Credit, 2 hours) (Contact, 3 hours).

126. WATER SAFETY INSTRUCTION (Credit, 2 hours) (Contact, 3 hours), Prerequisite: Red Cross Life Saving Certificate.

156. DANCE PRODUCTION (Credit, 2 hours) (Lab and Contact, 4 hours).

### Professional Courses

202. FOUNDATIONS OF HEALTH AND PHYSICAL EDUCATION (Credit, 3 hours). Provides the basic introductory knowledge of health and physical education; its history, goals, philosophical foundations; and career opportunities.

216. TEAM SPORTS (Credit, 2 hours). Emphasizes the teaching of rules and techniques of officiating skills and strategies for most team sports, including soccer, football (flag), volleyball, softball, and basketball.

250. INDIVIDUAL SPORT (Credit, 2 hours). Emphasizes the teaching of rules, skills, and strategies of most individual sports including badminton, golf, tennis, gymnastics and track and field. Opportunities for observation and experience in educational settings.

322. TEACHING ADAPTED AQUATICS (Credit, 2 hours) (Lec., 1 hour; Lab, 2 hours). Techniques and content necessary for teaching special population to swim. Red Cross Certification included. Prerequisites: PHED 122 and 124.

362. MOTOR LEARNING AND MOTOR DEVELOPMENT (Credit, 3 hours). Study of factors influencing motor skill acquisition and development. Emphasis on practice conditions, reinforcement, motivation, transfer, feedback, timing, perception, and personality factors.

381. KINESIOLOGY (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). A study of the muscular movements and mechanics including the science of biomechanics as related to sport and dance performance, emphasizing the principles of physics influencing movement. Prerequisite: PHED 200.

386. ATHLETIC COACHING AND OFFICIATING (Credit, 2 hours). (Lec., 2 hours; Lab, 2 hours). Focuses on team management, coaching techniques, and team strategies including techniques for coaching the major sports. Emphasizing strategy and psychosocial aspects of elite performance. Prerequisites: PHED 202, 216, and 250.

390. EXERCISE PHYSIOLOGY (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Basic physiological concepts related to exercise, specifically muscular, cardiovascular and circular-respiratory function.

443. METHODS OF ELEMENTARY AND SECONDARY SCHOOL PHYSICAL EDUCATION (Credit, 3 hours). Designed to provide an analysis of various teaching methods and learning activities; adaptation of curriculum to pupil needs and grade levels. Emphasizing the sociological and psychological aspects of physical education.

445. ATHLETIC INJURIES AND FIRST AID (Credit, 3 hours) (Lec., 2 hour; Lab, 2 hours). An introduction to the care and prevention of athletic injuries comprises half of the course. The remainder spent obtaining instructor certification in first aid and CPR with the Red Cross. Prerequisite: PHED 390.

463. ORGANIZATION AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION (Credit, 3 hours). Design a comprehensive health and physical education program. Emphasis on application of curricular models, classroom management, scheduling of activities, uses of facilities and equipment, and faculty development.

470. INTRODUCTION TO ADAPTED PHYSICAL EDUCATION (Credit, 3 hours). Study of physical and mental handicapping conditions and the physical education programs best suited for each condition. Federal and state regulations are briefly discussed with regard to placement, testing, and programs.

471. BEHAVIORAL AND EDUCATIONAL IMPAIRMENTS AND PHYSICAL EDUCATION (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Study of the physically handicapped with emphasis on the development and execution of programs for chronically-disabled individuals. Postural deviations, evaluation techniques, and sensory handicaps are included.

472. PHYSICAL EDUCATION FOR THE ORTHOPEDICALLY AND SENSORY IMPAIRED (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Study of the physically handicapped with emphasis on the development and execution of programs for chronically disabled individuals. Postural deviations, evaluation techniques, and sensory handicaps are included.

473. THE ADAPTED PHYSICAL EDUCATION CURRICULUM FOR CHILDREN (Credit, 3 hours). Program construction in adapted physical education with emphasis on curriculum guidelines, implementation, evaluation, and practical application. Prerequisites: PHED 470, 471, and 472.

## PHYSICS (PHYS)

101/102. PHYSICAL SCIENCE (Credit, 4 hours) (Lec., 3 hours; Lab, 2 hours). A survey course in physical science treating the most basic principles, concepts, and developments in physics, astronomy, chemistry, and geology. Course not intended for students who plan to major in one of the physical sciences and cannot be substituted for the basic course in any of these fields.

141/142. ELEMENTS OF PHYSICS (Credit, 4 hours) (Lec., 2 hours; Lab and Rec., 4 hours). An introduction to the basic concepts, principles, and models in physics. Prerequisite: MATH 130 or equivalent. No previous course in physics is necessary.

145. DISCOVERY IN PHYSICS (Credit, 3 hours) (Lec., 2 hours; Rec., 2 hours). A review and an extension of the fundamentals in algebra, geometry, and trigonometry. These notions applied to study vectors, static equilibrium, kinematics, and the dynamics of a single particle. Co-requisite: MATH 264.

200. APPLIED PROGRAMMING IN PHYSICS (Credit, 3 hours). This course is designed for (a) developing basic proficiency in some problem-solving algorithms and basic numerical methods, (b) developing proficiency in "C" programming and acquaintance with Java Script and (c) applying these tools to practical physics, mathematics, and engineering problem solving. The course includes modeling, simulations, and animation of physics principles. Problems will be solved using arrays, link lists, pointers, etc. Additionally, web-based simulations of physics applications will be developed.

201/202. EARTH SCIENCE I AND II (Credit, 4 hours) (Lec., 3 hours; Lab, 2 hours). Study of earth with emphasis on its internal constitution and the processes that affect it. History of earth including the development of the atmosphere and life. Elementary study of gravitational, magnetic, seismic, electrical, and thermal properties of the earth.

206. INTRODUCTION TO ASTRONOMY (Credit, 4 hours). A descriptive survey course in modern astronomy. Topics include the solar system, the sun, stars and stellar systems, galaxies, life in the universe, relativity, and cosmology. Prerequisites: MATH 140 or equivalent.

221/222. GENERAL PHYSICS (Credit, 5 hours each). (Lec., 3 hours; Lab, 2 hours; Problem-solving session, 2 hours). An introduction to the basic concepts, principles, and models in classical physics intended for science and engineering majors. Skills in the elementary theoretical and experimental methods of physics are developed while studying such topics as mechanics, thermodynamics, electricity and magnetism, waves, and optics. Prerequisite: MATH 264 for PHYS 221, and MATH 265 for PHYS 222.

251/252. INTERMEDIATE PHYSICS I AND II (Credit, 5 hours each) (Lec., 3 hours; Lab, 2 hours; Rec., 2 hours). A systematic presentation of the principles and methods of classical physics intended for physics majors. Theoretical and experimental skills will be developed through the study of classical mechanics (a review), thermodynamics (including elementary statistical physics), electricity, magnetism, electromagnetic phenomena, wave phenomena, optics, special relativity, and through the application of mechanics and electro-dynamics theory. Prerequisite: PHYS 145, or department permission. Co-requisite: MATH 265 for PHYS 251. Prerequisite for PHYS 252 is PHYS 251 or PHYS 221.

271. MODERN PHYSICS (Credit, 3 hours). A study of selected phenomena in solid state, molecular, atomic, and nuclear physics and quantum optics and their explanation on the basis of current physical theory. Designed as a sequel to PHYS 221/222. Prerequisites: PHYS 251/252, 221/222, or 141/142 and department permission. Co-requisite: MATH 265.

281/282. RADIATION PHYSICS I AND II (Credit, 4 hours). Interaction of radiation with matter, nuclear energy, X-radiation, principles of radiation protection and exposure, public health, radiation instrumentation, and measurement. Prerequisites: PHYS 251/252, 221/222, or 141/142.

311. MATHEMATICAL PHYSICS (Credit, 3 hours). Method of formulating and solving physics problems that involve the use of mathematical tools such as coordinate systems and transformation, Fourier series and orthogonal functions, complex variables, ordinary differential equations, matrices, and partial differential equations. Prerequisites: PHYS 222 or 252, MATH 265.

332. THE PHYSICS OF WAVES (Credit, 3 hours). A course of varying content on topics selected from the classical theory of waves and its applications in optics and acoustics. Prerequisites: PHYS 251/252 or 221/222 with department permission.

341/342. EXPERIMENTAL PHYSICS I AND II (Credit, 3 hours each semester) (Lec., 1 hour; Lab, 5 hours). A course in the techniques of physics measurements, including a selection of experiments emphasizing modern physics concepts with quantitative evaluation of physical phenomena. Prerequisite: Ten hours of introductory physics.

345. THERMODYNAMICS AND STATISTICAL MECHANICS (Credit, 3 hours). Macroscopic thermodynamics, kinetic theory, transport phenomena, probability, and classical statistical mechanics with applications to equilibrium phenomena. Prerequisites: PHYS 251/252 and 311 or equivalent.

381/382. BIOPHYSICS I AND II (Credit, 5 hours each). Applications of physical principles and instrumentation in biophysical measurements. Biological hazards associated with ionizing radiation, main features of safety in the field of radiation, and environmental hazards. Prerequisites: PHYS 251/252, PHYS 221/222, or equivalent.

400. COMPUTATIONAL PHYSICS (Credit, 3 hours). This course is geared toward the utilization of the computer to solve physics problems. Intermediate and advanced undergraduate topics in mechanics, electromagnetism, quantum mechanics, statistical mechanics, and mathematical physics are covered in conjunction with simulation and numerical solution methods of key physics equations. Prerequisites: PHYS 311 or equivalent.

405. THE PHYSICS AND TECHNOLOGY OF ENERGY (Credit, 3 hours). A survey course on the essence, production, and utilization of energy and related issues that include environmental ones; fundamental and common forms of energy and related sources (fossil, solar, nuclear, etc.); transformations and utilization of energy and the related environmental issues; working principles of selected energy transformation technologies; and notes on global energy balance and its implications. Prerequisite: Two semester sequence of physics (mechanics and electromagnetism).

411. ADVANCED MATHEMATICAL PHYS-ICS (Credit, 3 hours). Application of probability and statistics, partial differential equations, special functions, and integral equations to selected problems in physics. Prerequisites: PHYS 311 or equivalent.

416/417. ADVANCED MECHANICS I AND II (Credit, 3 hours each). Mechanics of one particle and a system of particles, Lagrange's equation, rigid body motion, relativistic mechanics, mechanics of continuous media, Hamiltonian mechanics, theory of small oscillations, and field theory. Prerequisites: PHYS 251/252, or PHYS 221/222 and department permission. Co-requisite: PHYS 311 for 416. Prerequisite for PHYS 417 is PHYS 416.

425/426. ADVANCED ELECTROMAGNETIC THEORY I AND II (Credit, 3 hours each). Electrostatics, magnetostatics, electric current and circuits, electromagnetic induction, Maxwell's equations, electrical and magnetic properties of matter, electromagnetic waves and their propagation, reflection and diffraction, charged particle dynamics, and relativistic effects. Prerequisite: PHYS 311.

435. QUANTUM PHYSICS I (Credit, 3 hours). Review of the classical foundations of quantum theory, interpretation of some crucial experimental results, and the mathematical formulation of quantum mechanics. Prerequisites: PHYS 271, 311, and 417.

436. QUANTUM PHYSICS II (Credit, 3 hours). Application of elementary quantum mechanics and elementary quantum statistical mechanics to realistic systems in solid state, molecular, atomic, and nuclear physics. Prerequisite: PHYS 435.

462. ASTROPHYSICS (Credit, 3 hours). A quantitative, introductory survey course covering selected topics in modern astrophysics, including the solar system, the sun, stars and stellar systems, galaxies, relativity, and cosmology. Areas of current scientific interest and research are emphasized, along with a review of present-day observational techniques. The course also examines the overlap between astrophysics and other areas of modern physics, such as high-energy physics, particle physics, and space physics. Prerequisites: PHYS 416 and 425.

472. SOLID-STATE PHYSICS (Credit, 3 hours). A study of solid-state phenomena including crystal structure, thermal, electrical, and magnetic proper-

ties of solids, and electron emission from metals and semiconductors using simple theoretical models. Prerequisite: PHYS 345.

491. SPECIAL PROBLEMS IN PHYSICS (Credit, 1 hour). A course for advanced students on selected topics and experimental and theoretical physics. Projects associated with the current departmental research can be undertaken by qualified students. Schedule is arranged according to varying content of the course.

492. SPECIAL PROBLEMS IN PHYSICS (Credit, 2 hours). A course for advanced students on selected topics and experimental and theoretical physics. Projects associated with the current departmental research can be undertaken by qualified students. Schedule is arranged according to varying content of the course.

493. SPECIAL PROBLEMS IN PHYSICS (Credit, 3 hours). A course for advanced students on selected topics and experimental and theoretical physics. Projects associated with the current departmental research can be undertaken by qualified students. Schedule is arranged according to varying content of the course.

494. SPECIAL PROBLEMS IN PHYSICS (Credit, 3 hours). A course for advanced students on selected topics and experimental and theoretical physics. Projects associated with the current departmental research can be undertaken by qualified students. Schedule is arranged according to varying content of the course.

## POLITICAL SCIENCE (POLS)

200. AMERICAN GOVERNMENT (Credit, 3 hours). Emphasis is upon what government is; how it operates with respect to individuals and groups; development of our constitutional system; and the citizen in political relations in the community.

202. INTERNATIONAL RELATIONS (Credit, 3 hours). A survey of the interactions among people, states, and transnational factors on the world scene.

206. WRITING SEMINAR (Credit, 3 hours). Designed to develop writing skills necessary to produce quality research papers in political science. Introduces the student to basic research skills needed to address political issues.

210. STATE AND LOCAL GOVERNMENT AND ADMINISTRATION (Credit, 3 hours). Constitutional and administrative relationships between state and nation and among states; the organization and operations of the executive, legislative, and judicial branches at the state and local levels; political institutions and processes.
- 215/265/315/365. POLITICAL SCIENCE SEMINAR (Credit, 0 hours). To supplement regular classroom activities with special lectures from political practitioners and with other program activities relevant to the study of political science.
220. INTRODUCTION TO POLITICAL SCIENCE (Credit, 3 hours). Introduces parameters, subfields, and substantive and theoretical issues of the discipline.
232. INTRODUCTION TO COMPARATIVE GOVERNMENT (Credit, 3 hours). An introductory course on the governmental systems of leading countries outside the United States.
320. PUBLIC ADMINISTRATION (Credit, 3 hours). Introductory course dealing with the development of public administration in the United States; principles and methods of administrative organization and management; personnel and financial administration; administrative law; and responsibilities.
325. POLITICAL PARTIES (Credit, 3 hours). The development of political parties in the United States; fundamental principles underlying party organization and functions; and the party platform, nominating devices, and campaign methods.
330. THE AMERICAN PRESIDENCY (Credit, 3 hours). Duties and responsibilities of the office of the American Chief Executive; and the several interpretations put upon the office of the presidency.
351. CONSTITUTIONAL LAW (Credit, 3 hours). Selected leading decisions of the Court of the United States and their impact upon the basic principles of our system of government.
399. POLITICAL SCIENCE SEMINAR (Credit, 3 hours). An interdisciplinary approach to the analysis of political behavior in the pursuit of public policy objectives.
401. READINGS IN POLITICAL SCIENCE (Credit, 3 hours). An interdisciplinary approach to the analysis of political behavior in the pursuit of public policy objectives.
402. BLACK POLITICS (Credit, 3 hours). Political efforts of American Blacks and other racial minorities to acquire their constitutional rights. History of race relations in the United States; and emphasis on contemporary efforts and related problems.
403. LOUISIANA GOVERNMENT AND POLITICS (Credit, 3 hours). A survey of Louisiana's political system at both the local and state levels. Major emphasis is placed on the operation of the legislative, judicial, and executive branches at the state level.
404. URBAN POLITICS (Credit, 3 hours). Analysis of politics in urban communities with attention to urban problems, including urban planning, urban renewal, and racial conflict.
410. THE LEGISLATIVE PROCESS (Credit, 3 hours). The theory and practice of legislative organization and procedures, policy determination, and executive legislative relationships.
411. INTRODUCTION TO LAW (Credit, 3 hours). Emphasis on legal history, research, and reasoning techniques through use of case briefs, shepardizing cases, writing legal memoranda, research papers, law school exam, and classroom discussions of hypothetical cases. Some substantive areas of civil and criminal law will be covered through use of the case method and assignments given. Specific attention will be made on preparation for the Law School Admission Test.
412. SEMINAR IN PUBLIC ADMINISTRATION (Credit, 3 hours). An examination of selected major theoretical concerns and leading issues in the study of public administration; administrative behavior; and policy analysis.
414. INTRODUCTION TO PUBLIC POLICY ANALYSIS (Credit, 3 hours). Exploration of the processes involved in the formulation and implementation of authoritative decisions with emphasis on alternative models of policy and analysis and selected subject matter area.

420. **WOMEN IN POLITICS** (Credit, 3 hours). Surveys involvement of women in the American political process with selected subject studies from other political systems.

430. **SEMINAR IN AMERICAN PRESIDENCY** (Credit, 3 hours). A course designed to examine the American presidency with special emphasis on the growth and development of the office in the 20th century.

432. **COMPARATIVE GOVERNMENT** (Credit, 3 hours). A comparative study of the governmental systems of the leading countries of Europe and Asia.

435. **AMERICAN FOREIGN POLICY** (Credit, 3 hours). A critical introduction to the nature, content, motivations, principles, and practices, and institutional framework of American foreign policy.

442. **GOVERNMENT AND POLITICS OF THE MIDDLE EAST** (Credit, 3 hours). An examination of the national, regional, and international politics of the Middle East.

460. **AMERICAN POLITICAL IDEAS** (Credit, 3 hours). A study of political ideas of representative American statesmen and publicists.

470. **CURRENT ISSUES** (Credit, 3 hours). Designed to analyze and interpret major contemporary issues both foreign and domestic.

472. **THE CONSTITUTION AND CIVIL LIBERTIES** (Credit, 3 hours). Study of free speech, loyalty within the democratic state, rights of persons accused of crime, and government's responsibility to protect persons from racial and religious discrimination with attention to the role of law and judges.

480. **POLITICAL THEORY** (Credit, 3 hours). Political thought from the Greeks and Romans to Machiavelli; and leading political theorists from Machiavelli to the present.

482. **BLACK POLITICAL THOUGHT** (Credit, 3 hours). A survey of the political thought of Blacks from ancient times to the present.

483. **ADVANCED SEMINAR IN POLITICAL SCIENCE** (Credit, 3 hours). A capstone course required of all political science majors. A review

of the discipline through readings and classroom discussion. The final examination for the course is the required departmental comprehensive examination.

484. **QUANTITATIVE TECHNIQUES IN POLITICAL SCIENCE** (Credit, 3 hours). An upper level and graduate course focusing on the application of specific quantitative techniques to political and social sciences.

486. **GOVERNMENT AND POLITICS OF AFRICA** (Credit, 3 hours). A survey of the growth, character, and trends of constitutional development of African states.

493. **AFRICA IN WORLD POLITICS** (Credit, 3 hours). An advanced seminar dealing with African international relations, giving special attention to the role of African nations at the United Nations and in their relations with major world powers.

494. **INDEPENDENT RESEARCH IN POLITICAL SCIENCE** (Credit, 3 hours). A senior and graduate research component in which students will explore those areas which are of critical interest or in which there is a need for them to develop greater depth or breadth in political science. Prerequisite: Consent of the instructor.

496. **THE AMERICAN POLITICAL PROCESS** (Credit, 3 hours). A course centered around the major decision-making organs of the American political process and utilizing a variety of approaches to the study of political phenomena.

499. **INTERNSHIP** (Credit, 3 hours). Provides experiences in national and state legislatures, administrative agencies, political parties, and other governmental and private agencies.

## **PSYCHOLOGY (PSYC)**

210. **GENERAL PSYCHOLOGY** (Credit, 3 hours). An introduction to psychology emphasizing various approaches and perspectives to understanding behavior. Topics covered include biological foundations of behavior; learning and memory; psychological tests; motivation; health psychology; psychopathology; social foundations of behavior; and personality.

274. **ELEMENTARY STATISTICS** (Credit, 3 hours). An introduction to basic descriptive statistics, mathematical concepts, and computer applications—Statistical Package for the Social Science (SPSS)—commonly used in statistics. Emphasis is placed on frequency distributions and percentiles, measures of central tendency and dispersion, standard normal distribution, and graphs and tables. Prerequisite: Math 131 or higher.
277. **ADVANCED STATISTICS** (Credit, 3 hours). An introduction to basic inferential statistics, mathematical concepts, and computer applications—Statistical Package for the Social Science (SPSS)—commonly used in statistics. Topics discussed are correlations, regression and prediction, probability, hypothesis testing, and statistical inference. Emphasis is placed on parametric and nonparametric procedures. An introduction to T-test and analysis of variance (ANOVA) techniques are topics that are included. Prerequisite: PSYC 274.
303. **FIELD EXPERIENCE** (Credit, 3 hours). Closely supervised practical experience in a human service-related agency, or specifically a substance abuse clinic, in which students are allowed to actively participate in the delivery of services to various populations served by that agency. Students must complete a minimum of 100 clock hours at an agency to fulfill course requirements.
310. **INTERPERSONAL COMMUNICATION** (Credit, 3 hours). Designed to enhance interpersonal communications as related to career or professional development. Emphasis is placed on effective communication in job seeking activities (interviews, resume writing, writing letters of application) and professional growth/development. Highly recommended for computer science, engineering, and business majors.
312. **PSYCHOLOGICAL RESEARCH** (Credit, 4 hours). Designed as an introduction to the research process and will provide students with experience in developing and implementing psychological research. Emphasis is placed on research designs, methodological procedures, and technical writing. Prerequisite: PSYC 277.
315. **AFRICAN-AMERICAN EXPERIENCE** (Credit, 3 hours). An in depth analysis of theories and research relative to the nature of African-American psychosocial reality in modern society and throughout the diaspora. Emphasize the Afrocentric perspective and focus on such issues as: concepts of black psychology, models of black personality, black mental health, approaches to the treatment and prevention of mental disorders in African-Americans, and models of Western/European racism. Cannot be used by psychology majors to meet the African-American experience requirement.
- 316/318. **SEMINAR IN PSYCHOLOGY** (Credit, 3 hours). An intensive study of one of the various topics in psychology.
323. **PSYCHOLOGY OF THE AFRICAN-AMERICAN CHILD** (Credit, 3 hours). An indebt analysis of theories and research relative to the study of the African-American child. Examines the socioenviromental factors that influence the socialization and development of African-American children in modern American society.
325. **INTRODUCTION TO THE STUDIES OF ALCOHOL, DRUGS, AND OTHER ADDICTIONS** (Credit, 3 hours). Designed to inform students of the causes and consequences of addictions as they relate to the individual, family, and community. Students will acquire knowledge related to the types and processes of treatment planning, case management, client education, referral, and preventions. Competencies for certification in Louisiana are discussed.
330. **SUBSTANCE ABUSE AND HUMAN BEHAVIOR** (Credit, 3 hours). Addresses issues related to repeated pathological use of drugs, including alcohol, which causes physical, psychological, economical, legal, and/or social harm to the users or to others affected by the user's behavior. Students will also become familiar with etiology, the diagnosis, and prognosis of various addictive behaviors. Multiple perspectives will be covered ranging from political and legal to scientific and medical to the addicts themselves.

335. THERAPEUTIC APPROACHES TO SUBSTANCE ABUSE TREATMENT (Credit, 3 hours). Designed to help students develop skills required to render professional guidance to abusers of alcohol, tobacco, and other drugs. Students will be trained to assist clients in gaining insight into their addictive disorders as well as learn to overcome those behaviors in order to maintain a drug-free life style. In addition, students will become familiar with detoxification management programs and relapse prevention.

342. SOCIAL PSYCHOLOGY (Credit, 3 hours). An introduction to the study of how people's thoughts, feelings, and actions are affected by the behavior of others.

350. INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY (Credit, 3 hours). A survey course providing exposure to organizational psychology and human resource management, as well as motivational and environmental factors influencing behavior in the work setting.

360. PSYCHOLOGICAL TESTING (Credit, 3 hours). An introductory survey course emphasizing the principles of psychological testing. A number of psychological tests of various kinds including substance abuse are critically evaluated and the importance of reliability and validity are stressed. Prerequisite: PSYC 274

370. PSYCHOLOGY OF SEXUALITY (Credit, 3 hours). A comprehensive course designed to familiarize students with aspects of sexuality, from biological factors responsible for gender development through human sexual behavior. Such topics as alterations in sexual behavior, sex roles, and contemporary issues will be covered.

377. PHYSIOLOGICAL PSYCHOLOGY (Credit, 3 hours). An introduction to the relationship between the biological and psychological bases of human behavior. Topics include basic biological and neurological processes, assessment of these processes, and in-depth examination of neural and brain functioning, and how these interact with the sensory system to influence behavior. Hands-on experiences required.

381. SENSATION AND PERCEPTION (Credit, 3 hours). An introduction to the relationship between the biological aspects of sensation and how these are integrated by living organisms into meaningful perceptual experimental studies are investigated. Students learn about perceptual organization, perceptual illusions, Gestalt principles, and the neural networks responsible for our perceptual world.

400. PSYCHOLOGY OF EXCEPTIONAL CHILDREN (Credit, 3 hours). Psychological problems in the educational and social adjustment of individuals with various developmental disabilities, physically handicapping conditions, behavioral disorders as well as in individuals who are intellectually gifted.

412. EXPERIMENTAL PSYCHOLOGY (Credit, 4 hours). An introduction to the principles of research in behavioral science. Emphasis is placed on major research strategies and statistical methods. Course focuses on issues common to experimental, correlational, and single case approaches. Prerequisite: PSYC 277 and 312.

420. PREVENTION PROFESSIONAL SEMINAR (Credit, 3 hours). An introduction to the field of prevention with emphasis on substance abuse and preparation for the licensure examination for prevention professionals. A focus on the history of drug use, developmental theories that support prevention, approaches to address the problem, and the effective use of a logic model.

430. TOBACCO SEMINAR (Credit, 3 hours). A review of the role of economics in tobacco's history in the United States as well as in today's economy. The course highlights marketing practices and political roles in tobacco regulation as they pertain to prevention.

431. PSYCHOLOGY OF PERSONALITY (Credit, 3 hours). Consideration of major theoretical approaches to the study of personality, its development, understanding, and investigation.

432. CLINICAL ASPECTS OF ADDICTION (Credit, 3 hours). Designed to address clinical issues related to crisis intervention such as recognizing the elements of the client crisis, implementing an immediate course of action appropriate to the crisis, and enhancing overall treatment by utilizing crisis events.

437. **PSYCHOLOGY OF HUMAN RESOURCES** (Credit, 3 hours). Designed to develop skills in using pre-employment selection devices and to provide information about their validity and reliability. Field work included. Prerequisite: PSYC 350 or permission of instructor.
445. **DEVELOPMENTAL PSYCHOLOGY** (Credit, 3 hours). An overview of the major developmental tasks encountered over the course of the entire life span. Major theoretical perspectives are addressed, including an examination of individual and socioenvironmental factors, which influence various dimensions of human development.
450. **PSYCHOLOGY OF INDIVIDUALS WITH MENTAL RETARDATION** (Credit, 3 hours). Course emphasizes types, causes, treatment, and psychological impact of mental retardation on the individual and family.
463. **PSYCHOLOGICAL TESTING** (Credit, 3 hours). The second half of a two-part sequence focusing upon psychological testing and measurement. The emphasis is on the application of psychometric principles to various psychological constructs and domains (e.g., intelligence, personality, and vocational aptitudes) in clinical counseling, educational, and business settings.
468. **ABNORMAL PSYCHOLOGY** (Credit, 3 hours). Etiology, diagnosis, and prognosis of major forms of mental illness. Course integrates major theoretical perspectives and current research in the field. Designed to familiarize students with populations they may encounter in mental health and substance abuse settings.
476. **ORGANIZATIONAL PSYCHOLOGY** (Credit, 3 hours). Course concerned with the structure and functioning of organizations. Theories and intervention techniques used to modify organizational behavior are discussed.
480. **MENTAL HYGIENE** (Credit, 3 hours). Emphasizing prevention of behavior disorder. Concepts of normality and adjustment are discussed.
482. **PSYCHOLOGY OF LEARNING** (Credit, 3 hours). The nature of the learning process, with special emphasis upon variables affecting learning, and theoretical and systematic implications of recent research.
- 483/484. **FAMILY-TEACHING MODEL** (Credit, 3 hours). Two-course sequence designed as an introduction to the Family-Teaching Model, a home-style approach to the treatment of juvenile delinquents, mentally retarded, and emotionally-disturbed youths. The approach emphasizes the use of applied behavior analysis, principles, and techniques in the treatment of the aforementioned populations.
485. **APPLIED BEHAVIOR ANALYSIS I** (Credit, 3 hours). Course designed as a basic introduction to the principles and techniques of applied behavior analysis. Emphasis placed on the use of these principles to solve socially significant problems.
486. **APPLIED BEHAVIOR ANALYSIS II** (Credit, 3 hours). An advanced course in applied behavior analysis. Emphasis is placed on providing students with experience in the application of techniques and the use of methods to evaluate treatment programs. Also, ethical concerns are considered. Prerequisite: PSYC 485.
488. **HISTORY AND SYSTEMS** (Credit, 3 hours). This course presents a survey of modern psychology as a natural science. Traditional analyses of theoretical frames of reference to psychological phenomena will occur within a larger context of both the major western philosophical precursors of scientific method (i.e., European empiricism) as well as philosophical systems of other cultures. Alternative "psychologies" which could or in fact have arisen from non-Eurocentric points of view will be explored.
- 490/491/492/494. **SPECIAL PROBLEMS IN PSYCHOLOGY** (Credit, 3 hours each). Designed to give undergraduate students the opportunity to work on supervised individually-tailored projects ranging from independent research to experience in professional preparation. Variable credit.
- 495/496/497/498/499. **CURRENT PROBLEMS IN PSYCHOLOGY** (Credit, 3 hours each). Selected theoretical and current methodological problems in psychology. Variable credit.

520. **ADVANCED PROFESSIONAL SEMINAR** (Credit, 3 hours). A mastery level working knowledge of the field of prevention with emphasis on substance abuse and preparation for the licensure examination for prevention professionals. The public health model is used to demonstrate theories of change and the effective use of a logic model.

530. **ADVANCED TOBACCO SEMINAR** (Credit, 3 hours) An advanced review of the role of economics in tobacco's history in the United States as well as in today's economy. The course highlights marketing practices and political roles in tobacco regulation as they pertain to prevention.

### **REHABILITATION SERVICES (REHB)**

300. **PRE-FIELD PLACEMENT** (Credit, 3 hours). Emphasis is placed on integrating, refining, and developing skills that enhance field placement performance in rehabilitation settings. More specifically, interview skills, assertiveness skills, professional conduct, ethical considerations, and confidentiality of the helping relationships are emphasized. Field trips to various agencies serving people with disabilities are made to assist students in selecting placement sites.

301/302. **FIELD EXPERIENCE** (Credit, 3 hours). Closely supervised practical experience in a rehabilitation agency in which students are allowed to actively participate in the delivery of services to various populations served by that agency. Students must complete a minimum of 100 clock hours at an agency to fulfill course requirements. Prerequisite: REHB 300

340. **INTRODUCTION TO REHABILITATION** (Credit, 3 hours). An overview of the field and related laws. It sets current rehabilitation policies, principles and ethics into an historical framework. The process of rehabilitation services from referral and evaluation through job training and placement are covered. Disability awareness and etiquette are practiced in this introductory class.

361. **REHABILITATION EVALUATION** (Credit, 3 hours). Introduction to principles of testing as applied to the evaluation of individuals with various disabilities and the applicability of

these tests to such populations. This course describes the use of assistive technology devices and services in maintaining and increasing the quality of life of individuals with disabilities. Discussions include the use of tests specifically designed for individuals with disabilities, norms, reliability and validity of these tests. Prerequisites: PSYC 274, PSYC 360

372. **OCCUPATIONAL INFORMATION AND JOB PLACEMENT** (Credit, 3 hours). Designed to familiarize students with sources of occupational information for individuals with disabilities. Theories of occupational choice discussed. Topics covered include: Job analysis, Job modification, reasonable accommodation and placement techniques.

390/391. **PHYSICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITY I AND II** (Credit, 6 hours). This is a two-semester sequence designed to provide basic knowledge of medical conditions, symptoms, functional implications, treatments, diagnostic procedures, and medical terminology. The course addresses the impact of disability on activities of daily living, psychosocial adjustment and employment.

410. **COMMUNITY RESOURCES** (Credit, 3 hours). This course is designed to introduce students to the community resources available to aid in the rehabilitation of those seeking and needing such services. This course will also assist students in becoming aware of potential employment sites in rehabilitation settings.

415. **REHABILITATION RESEARCH** (Credit, 4 hours). An introduction to the basic scientific methods used in rehabilitation research. Emphasis is placed on the development of skills in research design with consideration of problems of internal and external validity, ethics in research, and qualitative and quantitative research methodology. Prerequisite: PSYC 274.

470. **SUPPORTED EMPLOYMENT** (Credit, 3 Hours). This course provides students with the fundamental principles of understanding and delivery of supported employment services to

individuals with disabilities. Emphasis will be placed on addressing the supported employment needs of individuals with significant disabilities as defined by federal criteria.

473. INDEPENDENT LIVING (Credit, 3 Hours). This course covers topics relevant to independent living movement from a historical perspective to current practice. Studies will include both a national and international context. Topics included in the course are independent living philosophy, models of independent living, consumer empowerment and self-determination, and pertinent legislation. Other topics covered include the relationship between vocational rehabilitation and independent living.

475. APPLICATIONS OF ASSISTIVE TECHNOLOGY IN VOCATIONAL REHABILITATION (Credit, 3 Hours) This course reviews the applications of assistive technology as applied to the needs of individuals with disabilities. It covers various types of assistive technology (AT) including: computer access, augmentative communication, and electronic devices for activities of daily living, wheelchairs and seating, and vehicle modifications. Additionally, it includes the application of clinically-based strategies for determining an individual's need for and acceptance of assistive technology to improve functional outcomes.

481. PRINCIPLES OF COUNSELING (Credit, 3 hours). This course provides students with a broad survey of the theoretical foundations for counseling people who have disabilities. It introduces them to the fundamentals of the major contemporary theories for understanding behavior. Key concepts under study include: Psychoanalytic Therapy, Adlerian, Existential, Person-Centered, Gestalt, Reality, Cognitive and Behavior Therapies are considered.

493. SPECIAL PROBLEMS – (BEST PRACTICES IN REHABILITATION) (Credit, 3 hours). Covers special topics in the field of rehabilitation such as cognitive behavior therapy, supervision, administration, professional development, aging and disability, and basic research skills for rehabilitation.

## SERVICE LEARNING (SVLR)

### Service Learning

000. SERVICE LEARNING (Non-Credit, 0 hour) (formerly Community Volunteerism). An introduction to the principles of volunteerism. Students will perform a minimum of 60 clock hours of service at an approved service-learning agency during the semester of enrollment. In addition to the service provided, written and oral reports, class assignments, reflections and scheduled student/instructor conferences are part of the course requirements. Service learning advisers assign, monitor, and evaluate all student volunteer work. Upon completion of the clock hours and class assignments, a pass or fail grade will be submitted to the Registrar's office. Students must have full academic semester load excluding Service Learning 000. Approval for course enrollment granted by the Center for Service Learning staff.

100/200/300. SERVICE LEARNING (Credit, 1 hour each) (formerly Community Volunteerism). An introduction to the principles of volunteerism. Students will perform a minimum of 20 clock hours of service at an approved service-learning agency during the semester of enrollment for 100, 200, and 300 level courses. In addition to the service provided, written and oral reports, class assignments, reflections and scheduled student/instructor conferences are part of the course requirements. Service learning advisers assign, monitor, and evaluate all student volunteer work.

400. SERVICE LEARNING (Credit, 3 hours) (formerly Community Volunteerism). An introduction to the principles of volunteerism. Students will perform a minimum of 60 clock hours of service at approved service-learning agency during the semester of enrollment for 400 level courses. In addition to the service provided, written and oral reports, class assignments, reflections and scheduled student/instructor conferences are part of the course requirements. Service learning advisers assign, monitor, and evaluate all student work.

405. INTERNATIONAL SERVICE LEARNING (Credit, 3-6 hours). This course will prepare students to address social and economic problems in foreign countries. Students will be exposed to a different cultural experience that will enable them to promote a better

understanding of the peoples of the world. Each country in the Study Abroad Program will provide unique experiential experiences that are generic to that respective country. The course will include journal writing, research activities, a pre-departure component and a follow-up phase that will allow students to present and exhibit their works in local settings in the United States.

## **SOCIAL WORK (SOCW)**

198. **ORIENTATION TO SOCIAL WORK** (Credit, 3 hours). Designed to enable students to explore their interest in, and potential for, a career in human service professions, especially social work. A frame of reference is provided for social work practice and social work education with special emphasis on under-graduate social work education at Southern University. Active learning experiences will be a part of this course. Intended for prospective social work majors.

200. **SOCIAL WORK AS A PROFESSION** (Credit, 3 hours). This course is an in-depth study of social work as a profession within the field of social welfare. It gives a historical perspective of social welfare and social work. A survey approach is used to examine the present-day structure and functions of the major fields of social work practice, as well as social work knowledge, values, and skills. Prerequisite: SOCW 198 or currently enrolled in SOCW 198.

204. **LOBBYING** (Credit, 1 hour). Designed to provide introductory knowledge and beginning skills in social-political lobbying. This course would be of interest to students who wish to gain better knowledge of how the political process is carried out, and how they might influence this process. Current and popular political issues will be addressed with a focus on local, state, and national legislative lobbying efforts. Students will have an opportunity to observe lobbying in process as well as consult with professional lobbyists.

205. **HIV/AIDS SEMINAR** (Credit, 1 hour). An overview of HIV/AIDS. The focus will be upon the medical, epidemiological, psycho-social trends, risk-reduction factors, and resources related to HIV/AIDS.

209. **SOCIAL HEALTH ISSUES** (Credit 1 hour). Course introduces students to some of the major problems and issues involved in addressing health care needs in the United States. Focus will be given to analysis and discussion of the nation's health status and how effectively the health system prevents and addresses emerging health problems. Growing ethical issues and dilemmas affecting medical/health care practice will also be covered.

211. **SERVICE DELIVERY TO DEVELOPMENTALLY CHALLENGED** (Credit, 1 hour). Course designed to instill an interest in developmental disabilities as a field of practice, recognize the rights and needs of the developmentally disabled, and introduce social work services available to developmentally disabled people and their families. The course content will be presented in a seminar format.

212. **RURAL SOCIAL WORK SEMINAR** (Credit, 1 hour). Designed to provide an overview of social, cultural, economic and political aspects of the rural communities. It focuses on the rural community as a unit of social organization and the unique features of service delivery systems in the rural community. Special emphasis is placed on contemporary concerns of rural communities particularly in light of recent socio-economic changes. Students will be exposed through lectures, discussions and guest lectures.

213. **FAMILY CAREGIVING** (Credit 1 hour). An overview of the psychosocial problems associated with family caregiving and possible strategies for assisting caregivers. The course will examine the contemporary social, political, and economic issues related to caregiving.

214. **SOCIAL WORK AND SPIRITUALITY** (Credit, 1 hour). This course provides an overview of the spiritual aspects of social work practice. The primary focus of the course will be to assist students in identifying their own spiritual values and religious beliefs as well as to develop respect and understanding for the various ways spirituality is expressed by clients.

240. SOCIAL WORK AND TECHNOLOGY (Credit, 3 hours). Introduces students to the use of computer technology in social work in preparation for licensure, graduate study, and employment by providing hands-on use of various software and multimedia technologies. Particular emphasis will be placed on students' use of various computer applications and their relevance to the profession.

250. AFRICAN AMERICANS IN U.S. POLICY HISTORY (Credit 3 hours). Designed to describe the role and place of African Americans in the development of social welfare policy in the United States. It fills the gap in traditional social welfare policy history, which has tended to exclude the discussion of African Americans. Fulfills University African American experience requirement for non-social work majors and a social work elective for majors.

260. CASE MANAGEMENT (Credit, 3 hours). Examination of issues related to case management from a historical overview and explicit critical analysis of case management. Different case management models developed by social workers, case management practice in mental health, health care and long-term care, aging, physical or developmental disabilities, and in child welfare research/program evaluation, and an advocacy/empowerment model of case management practice will be the focus.

270. INTRODUCTION TO SOCIAL WELFARE POLICY (Credit, 3 hours). Designed to enable students to understand the historical and philosophical development of social policies. Policy development will be studied within a social systems context. Analysis will be made of various social, political, and economic factors which influence policies; and of policies responsiveness to empowering groups of various racial, ethnic, class, gender, age, and other relevant distinctions. POLS 200 must be completed or taken concurrently with this course. Prerequisites: HIST 224, HIST 225 highly recommended; HIST 104, HIST 105 or HIST 114, HIST 115 also accepted; SOCW 198 and 200. No pre-requisites required for non-majors.

280. MENTAL HEALTH ISSUES (Credit, 3 hours). Examines mental health from historical and theoretical perspectives. It examines contemporary issues affecting mental health, consultation

and education, alternatives to traditional mental health services and the prevention of mental disorders. This course will also examine problems, policy, and the evaluation of services.

298. INTRODUCTION TO SOCIAL WORK PRACTICE (Credit, 3 hours). Introduction to basic knowledge, values, and skills necessary for generalist social workers. Students learn the systems approach and acquire the initial communication skills needed for generalist social work practice. Students gain knowledge of their own values and personal capabilities, to begin developing their own effective helping skills. The course uses a laboratory experiential learning format. Open to social work majors only. Prerequisites: SOCW 198, and SOCW 200, or permission of instructor.

300. ADDICTIVE BEHAVIORS (Credit, 3 hours). Course designed to examine the psychosocial aspects of addictive behaviors with specific emphasis on substance-related disorders, eating disorders, and gambling. The course will explore professional literature and social service resources as well as examine the effects of these problems among diverse groups.

301. LAW AND SOCIAL WORK (Credit, 3 hours). The course provides an overview of the legal system in relation to helping professionals. It introduces selected laws and legal authority related to specific human service delivery systems. Special emphasis will be placed on ethics. Course is offered to social work majors in nursing, psychology, sociology, education, counseling, recreation, rehabilitation counseling and other related disciplines.

310. INTRODUCTION TO RESEARCH (Credit, 3 hours). Introduces the student to the process of scientific inquiry. Particular emphasis will be made on issues regarding systematic methods and procedures in carrying out objective and scientific investigation in the social sciences.

340. VIOLENCE IN FAMILIES (Credit, 3 hours). Course is designed to increase student awareness of family violence. Focus is on the major forms of abuse: child, intimate partner, and elderly abuse. The course will address family violence at individual, family, group, community, and societal levels.

370. SOCIAL WELFARE POLICY ANALYSIS AND FORMULATION (Credit, 3 hours). Designed to enable students to analyze current and proposed social policies and formulate policies within a social systems context. Analysis will be made of various social, political, and economic factors which influence policies; and of the policies' potential for problem prevention and empowering diverse at-risk groups. Focus is given to racial, ethnic, class, gender, age, and other relevant distinctions. Prerequisites: SOCW 270 and its prerequisites. Non-majors with permission of instructor.

375. INTRODUCTION TO GERONTOLOGY (Credit, 3 hours). An overview of the study of aging from an interdisciplinary perspective with emphasis upon understanding various elderly subgroups, i.e., minorities, for more effective social service delivery.

380. HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (Credit, 3 hours). Course uses macro theories to examine theoretical perspectives on social, political, and economic dimensions of American society. Particular emphasis is given to ethnic and cultural diversity and social stratification. Community, organizational, small group and family systems are studied as social contexts of human behavior. Prerequisites: BIOL 104 and BIOL 105, BIOL 106 or BIOL 107, HLTH 110, SOCL 210 and PSYC 210. To be taken prior to or concurrently with SOCW 393.

381. HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II (Credit, 3 hours). Course uses theoretical perspectives and research findings to examine the individual and families in social environmental context. It studies human growth and development across the life cycle. Prerequisites: SOCW 380 and its prerequisites. To be taken prior to or concurrently with SOCW 395.

393. GENERALIST SOCIAL WORK PRACTICE I (Credit, 3 hours). Course based on a generalist problem-centered framework. It covers the engagement, data collection, assessment, and contract negotiation phases of problem solving. The course integrates theory, values, skills, and development of professional practice styles. Prerequisites: SOCW 198, 200, and 298. Open to social work majors only.

394. GENERALIST PRACTICE LAB I (Credit 2 hours). The simulated experiential component of SOCW 393. It provides an experiential setting allowing students to integrate theory through case simulations, role playing, and videotaping as a means of skills development. SOCW 393 must be taken concurrently. Prerequisites: SOCW 198, 200, and 298. Open to social work majors only.

395. GENERALIST SOCIAL WORK PRACTICE II (Credit, 3 hours). Course continues the problem-solving process through integrating intervention methods, termination, and evaluation of practice. Assists students in further developing their professional practice through identifying, selecting, and using various interventions and models directed toward micro, mezzo, and macro levels of social work practice. Provides basic knowledge on evaluating one's own practice. SOCW 396 must be taken concurrently. Prerequisites: SOCW 198, 200, 298, 393, and 394. Open to social work majors only.

396. INTRODUCTION TO FIELD INSTRUCTION (Credit, 2 hour). The course focuses on the students' transition into the role of social worker, their orientation to the agency setting, their perceptions and feelings, and strengthening integration of theory with practice. This agency-focused experiential component prepares students for field instruction. Must be taken concurrently with SOCW 395. Prerequisites: SOCW 198, 200, 298, 393, and 394. Open to social work majors only.

400. HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT SEMINAR (Credit 1 hour). Course uses a laboratory format to engage students in the study of contemporary human behavior topics. Human behavior is examined from health and wellness as well as problems in living perspectives. Prerequisites: SOCW 381 and its prerequisites.

401. DSM SEMINAR (Credit, 3 hours). Seminar offers an intensive study of the organization, content and use of the DSM (Diagnostic and Statistical Manual of Mental Disorders) in diagnosing, assessing, planning, and intervening with specific client systems. The course is open to senior level students and other students with permission of the instructor. It is also open for professional development requirements.

410. SOCIAL WORK RESEARCH (Credit, 3 hours). Designed to prepare students for becoming effective professional practitioners through incorporating a scientific and analytic approach to knowledge building and practice. The course will present basic knowledge and skills for conducting practice research utilizing qualitative and quantitative methodologies. Students will be provided skills in the application of research-based knowledge and practice strategies, evaluating their own practice and reporting their research and evaluating findings. Prerequisites: Completed all required social work courses (198, 200, 270, 298, 310, 380, 381, 393, 394, 395, 396); and CMPS 105 or 290; and PSYC 274, MATH 274 or SOCL 350. Students must be concurrently enrolled in SOCW 490 and 491 or 492 and 493. Open to social work majors only.

450. AFRICAN-AMERICAN PERSPECTIVES OF HUMAN BEHAVIOR (Credit, 3 hours). Course uses the scholarly work of African-American social and behavioral scientists. It describes the richness and diversity of African-American life, examines major contemporary issues and problems confronting African-Americans, and demythologizes stereotypes. African-American theoretical models are used to organize and analyze facts concerning the African-American experience, especially the impact of social inequalities. Fulfills University African-American experience requirement for non-social work majors and a social work elective for majors.

451/452. INDEPENDENT STUDY (Credit, 3 hours each). The course allows students to select a social welfare topic to study on a concentrated, relatively autonomous basis. Students use a combination of several approaches including an internship, professional development, library research, survey research, and the application of presentation of study results. Prerequisite: Advanced junior or senior classification or by permission of the faculty person who has responsibility for directing the course.

453. GROUP DYNAMICS (Credit, 3 hours). Designed to help students learn how to conduct groups. Classroom becomes a laboratory for students to practice and develop group skills, including leadership. Types of groups, leading groups, communication groups, problem-solving and

decision-making groups, self-help, educational, sensitivity, therapeutic groups, termination, and evaluation will be covered.

470. ETHNIC FAMILIES (Credit, 3 hours). Course has both theoretical and applied components. Based upon sociological and historical approaches to understanding ethnic families in America. Various theories and models explaining family life are studied. The applied approach entails human service interventions that are particularly relevant to providing services to ethnic families. Useful to students majoring in several disciplines, other than social work, especially family life, sociology, psychology, education and recreation.

480. SERVICES TO FAMILIES AND CHILDREN (Credit, 3 hours). A study of programs, services, and interdisciplinary intervention strategies pertaining to meeting the needs of families and children. Major emphasis will be on the historical implications, an overview and the scope of child welfare services, contemporary issues and trends, and services in a multicultural society. This course is recommended for students majoring in recreation, child development, education, political science, family life, and psychology.

490. FIELD INSTRUCTION I (Credit, 4 hours). This is the field practicum or internship. It provides first semester senior students with a supervised field placement involving entry-level generalist social practice experience in a social/ human service delivery setting. Prerequisites: Students enrolled in Fall-Spring Field Instruction, must complete: SOCW 198, 200, 270, 298, 310, 380, 381, 393, 394, 395, 396 and 400. Students enrolled in Summer-Fall Field Instruction must complete all general education and social work requirements. Open to social work majors only.

491. FIELD INSTRUCTION SEMINAR I (Credit, 1 hour). The course allows students completing the field practicum to survey, observe, assess and discuss their professional growth and development. It supports the integration of social work knowledge, values and skills in the practicum setting. This course is taken concurrently with SOCW 490. Open to social work majors only.

492. FIELD INSTRUCTION II (Credit, 4 hours). This is the continuation of Field Instruction I. The course is taken concurrently with SOCW 493. Prerequisites SOCW 490, 491, and their prerequisites. Open to social work majors only.

493. FIELD INSTRUCTION SEMINAR II (Credit, 1 hour). This is a continuation of Field Instruction Seminar I. This course is taken concurrently with SOCW 492. Prerequisites: SOCW 490, 491 and the prerequisites. Open to social work majors only.

## **SOCIOLOGY (SOCL)**

210. INTRODUCTION TO SOCIOLOGY (Credit, 3 hours). The scientific study of the origin, evolution, and organization of social life; eminent scholars of sociology; the development and understanding of present day social-cultural life.

220. CONTEMPORARY SOCIAL PROBLEMS (Credit, 3 hours). Major problems resulting from group life in the United States; individual, family, and community disorganization.

314. INTRODUCTION TO ANTHROPOLOGY (Credit, 3 hours). Man's biology, nature, and evolution; physical types; biological basis of cultural change; and the earliest known evidences of human cultural beginnings. Prerequisite: SOCL 210.

320. SOCIAL PSYCHOLOGY: SOCIO-LOGICAL APPROACHES (Credit, 3 hours) A survey of the contributions of sociologists to theory and research in social psychology. Emphasis is placed on individual and group learning, personality development, conformity and deviation, and the general nature of symbolic interaction.

324. INTRODUCTION TO POPULATION AND HUMAN ECOLOGY (Credit, 3 hours). Introduces the student to various theories and concepts of population and human ecology as well as measures used in analyzing population and the spatial distribution of populations.

328. CULTURAL ANTHROPOLOGY (Credit, 3 hours). Special emphasis is placed on acculturation. Descriptive and historical review of concepts of soci-

eties with different cultural traditions; analysis of interaction; and resulting interpretation of cultures.

329. COLLECTIVE BEHAVIOR (Credit, 3 hours). An analysis of the evolution of elementary forms of behavior into stable institutional structures, i.e., characteristics of crowds, mobs, publics, social movements, and revolutions, and their relation to social unrest; includes their role in developing and changing social organizations.

330. SOCIAL INSTITUTIONS (Credit, 3 hours). Analysis of origins and functions of institutional structures and their role in contemporary society, industries, politics, church, educational structures, family, etc.

335. PROBLEMS OF MARRIAGE AND THE FAMILY (Credit, 3 hours). An overview of pathologies inherent in the modern family, utilizing concepts from current theoretical and research schemes. An intensive study of the origins, functions, structures, and roles of the family as a social institution in various historical and contemporary societies.

340. ENVIRONMENT AND SOCIETY (Credit, 3 hours). A study of the interaction between human society and the physical environment including the social aspects of environment problems.

350. SOCIAL STATISTICS (Credit, 3 hours). An introduction to measures of central tendency, measures of variability, normal probability, correlation reliability, and validity to measurements, with special relevance to application to sociological research.

382. SOCIOLOGY OF DEVIANT BEHAVIOR (Credit, 3 hours). An examination of the leading sociological approaches to the study of deviation and a general survey of the major types of deviation in American society.

386. COMMUNITY ORGANIZATION (Credit, 3 hours). The application of sociology to practical problems of community organization; community organizations as tools for introducing changes; methods of making organizations effective through developing leadership, and analyzing the results of community organizational work.

400. FORENSIC SCIENCE. (Credit, 3 hours) A historical analysis of the application of scientific disciplines to the study of potentially

incriminating physical evidence, its interpretation, and subsequent presentation in a court of law (criminal and appellate courts). Included will be an introduction to contemporary techniques, methods, etc.

424. **CRIMINOLOGY** (Credit, 3 hours). An analysis of the psycho-social background of criminals and delinquents; historical criminal policies; the administration of justice; punitive processes; and crime prevention.

425. **PENOLOGY** (Credit, 3 hours). A focus on the historical origin, development, and aims of the modern American prison system. A systematic approach used to examine the formal social structure and the emerging informal social structure; the defects of power as exemplified by prison strikes and riots; the existing conflict between custody and treatment; the deprivations of imprisonment; the process of "prisonization," disciplinary procedures, prison administration and programs; and the effectiveness of imprisonment as reflected in the rate of recidivism and as a deterrent to potential criminals.

428. **THE URBAN COMMUNITY** (Credit, 3 hours). Nature, structure, and functions of the urban community; its relations to the larger social organization, internal organization of urban areas; controls; specific techniques of urban planning; poverty; and other problems.

431. **POLITICAL SOCIOLOGY** (Credit, 3 hours). The contributions of sociology to the study of politics, including the analysis of the political aspects of social systems, the social context of action, and the social basis of power.

434. **MINORITY GROUP RELATIONS** (Credit, 3 hours). An analysis of the history and development of major minority groups in America. An examination of minority group relations.

435. **THE SOCIOLOGY OF BLACK AMERICANS** (Credit, 3 hours). Social-psychological background of black Americans; the evolution of

social attitudes; interplay of economics and social forces in successive patterns of race relations with special emphasis on issues such as poverty, health, housing, industry, etc.

436. **AFRICAN-AMERICAN SOCIOLOGICAL THOUGHT** (Credit, 3 hours). Course centers around the sociological and related intellectual thoughts of African Americans and other African writers.

442. **THE SOCIOLOGY OF AFRICAN CULTURE** (Credit, 3 hours). Designed to provide the opportunity for students to learn about Africa from a multidisciplinary perspective. The approach to the study of Africa will be beyond the traditional definitional boundaries of sociology to provide students with as much information as possible as well as to accommodate some of their individual concerns and interests in the continent.

443. **SOCIOLOGY OF EDUCATION** (Credit, 3 hours). Primarily concerned with the interrelationships between schools and other social institutions, including the socialization and social selection functions of schools. Particular attention paid to the impact of schooling on racial stratification and to teacher-student interaction as a determinant of student achievement.

444. **SMALL GROUPS** (Credit, 3 hours). The systemic analysis of small groups as functioning social systems.

445. **SOCIOLOGY INTERNSHIP** (Credit, 3 hours). Provides selected majors opportunities to apply relevant theoretical knowledge (principles) of sociology to agency programs. Students are supervised and evaluated by both the agency and department faculty. Regular reports and readings required.

446. **FIELD EXPERIENCE IN THE SOCIOLOGY OF EDUCATION** (Credit, 3 hours). Field experience requires practical, educationally-directed sociological experiences in tutoring the local community under the supervision of the instructor. Actual experiences of tutors compared with the relevant professional literature.

448. **INDUSTRIAL SOCIOLOGY** (Credit, 3 hours) A sociological analysis of industry with attention given to factors in the status group awareness and occupational role learning of workers and managers and their specific techniques of planning for the ghetto, poverty, and other problems.

450. **SOCIAL RESEARCH** (Credit, 3 hours) Research methodology in the social sciences; methods by which valid research is carried on; the survey, interview, use of questionnaires, case studies, and related techniques. An opportunity for students to prepare original research papers. Prerequisites: SOCL 350 or the equivalent.

455. **SOCIOLOGICAL THEORY** (Credit, 3 hours). Critical analysis of major sociology theorists and schools. Junior or Senior standing.

482. **INDEPENDENT STUDY** (Credit, 3 hours). Opportunities for exceptional undergraduate students and graduate students to do independent study in sociology under selective supervision.. Students must receive the approval of the department chair.

485. **JUVENILE DELINQUENCY AND ITS TREATMENT** (Credit, 3 hours). Juvenile delinquency as a social problem. Methods of treatment and prevention, including study of juvenile courts, clinics, correctional institutions, probation, parole, child placement, and recreational programs.

490. **SEMINAR IN THE SOCIOLOGY OF DEATH AND DYING** (Credit, 3 hours). A sociology of knowledge approach on the cultural impact of people's dying in relation to the formation of such attitudes; how such attitudes are sustained by society; and how they are interpreted by social structure as a whole.

491. **SEMINAR IN THE SOCIOLOGY OF RELIGION** (Credit, 3 hours). A comprehensive sociology of knowledge approach to study the nature of religion, with emphasis on societal and cultural factors influencing different religious beliefs, and the role of religion in social change. Primary emphasis placed on independent study and projects related to recent developments and trends in religion in contemporary society.

499. **SENIOR SEMINAR IN GENERAL SOCIOLOGY** (Credit, 3 hours). A comprehensive survey of the field of sociology with emphasis on group discussion, independent study, and projects related to recent developments and trends.

### **SPANISH (SPAN)**

100. **ELEMENTARY SPANISH I** (Credit, 3 hours). Introduction to elementary structures in the Spanish language. Emphasis on listening comprehension, pronunciation, basic vocabulary, and grammar structures necessary for developing oral proficiency skills. Classroom work is extended and enhanced by coordinated student use of laboratory facilities for oral comprehension and pronunciation exercises, vocabulary acquisition, grammar, and spelling exercises. Lab attendance required.

101. **ELEMENTARY SPANISH II** (Credit, 3 hours). Continuation of SPAN 100 with increased emphasis on reading and writing activities. Continued use of computer lab self-tutorials. Lab attendance required. Prerequisite: SPAN 100 or credit exam.

200. **INTERMEDIATE SPANISH I** (Credit, 3 hours). Completion of the introduction of basic grammar and structures. Additional work on speaking and listening comprehension skills through extensive practice with video and audio cassettes. Continued use of computer lab self-tutorials. Lab attendance required. Prerequisite: SPAN 101, or equivalent. College students who complete the 200-201 sequence will receive honors credit.

201. **INTERMEDIATE SPANISH II** (Credit, 3 hours). Course designed to develop reading and writing skills. Students read a variety of cultural texts as models of written expression. Weekly laboratory attendance and written assignments required. Prerequisite: SPAN 200 or equivalent.

202. **SPANISH PHONETICS** (Credit, 3 hours). Analysis of Spanish phonetic principles with extensive practice and corrective drills within the language laboratory. Focus is on the problems of teaching Spanish pronunciation to English-speaking students. Prerequisite: SPAN 200 or equivalent.

214/215. SPANISH FOR PROFESSIONALS  
Two-course sequence that introduces the basics of the Spanish language in the context of the professional emphases of: 1) Business; 2) Health Care; 3) Law Enforcement.

214 (B-Code 1) BUSINESS SPANISH (Credit, 3 hours). First course in a series designed to introduce the Business major/minor and/or Spanish major/minor to use the Spanish language and culture in the context of the world of business, in order to better prepare them for a globalized economy and job market. Prerequisite: None. Enrollment is limited to Business and Spanish majors and minors.

215 (B-Code 1). BUSINESS SPANISH (Credit, 3 hours). Second course in a series designed to introduce the Business major/minor and/or Spanish major/minor to use the Spanish language and culture in the context of the world of business, in order to better prepare them for a globalized economy and job market. Prerequisite: 214 or Equivalent. Enrollment is limited to Business and Spanish majors and minors.

214 (Code 2) SPANISH FOR HEALTH CARE PROFESSIONALS (Credit, 3 hours). First course in a series designed to introduce the Nursing or Healthcare major/minor/practitioner or the Spanish major/minor to the Spanish language and culture in the context of the medical and health care profession, in order to better prepare them for a globalized economy and job market. Prerequisite: None. Enrollment limited to Nursing students and practitioners, Pre-Med students, Spanish majors/minors.

215 (Code 2) SPANISH FOR HEALTH CARE PROFESSIONALS (Credit, 3 hours). Second course in a series designed to introduce the Nursing or Healthcare major/minor/practitioner or the Spanish major/minor to the Spanish language and culture in the context of the medical and health care profession, in order to better prepare them for a globalized economy and job market. Prerequisite: 214 or Equivalent. Enrollment limited to Nursing students and practitioners, Pre-Med students, Spanish majors/minors.

214 (Code 3) SPANISH FOR LAW ENFORCEMENT (Credit, 3 hours). First course in a series designed to introduce the student or practitioner to the Spanish language, vocabulary, and culture in the context of criminal justice and law enforcement, in order to better prepare them for a globalized economy and job market. Prerequisite: None. Enrollment limited to Criminal Justice and Sociology majors and minors, police officers, Spanish majors and minors.

215 (L - Code 3) SPANISH FOR LAW ENFORCEMENT. (Credit, 3 hours). Second course in a series designed to introduce the student or practitioner to the Spanish language, vocabulary, and culture in the context of criminal justice and law enforcement, in order to better prepare them for a globalized economy and job market. Prerequisite: SPAN 214 or Equivalent. Enrollment limited to Criminal Justice and Sociology majors and minors, police officers, Spanish majors and minors.

214 (T - Code 4) SPANISH FOR PROFESSIONALS I: TEACHERS. Prerequisites: None. Enrollment is limited to Education majors and minors, K-12 teachers, and Spanish majors and minors. This course is designed to introduce the student or practitioner to the Spanish language, vocabulary, and culture in the context of specific school situations, in order to better prepare them for a globalized economy and job market.

215 (T - Code 4) SPANISH FOR PROFESSIONALS: SPANISH FOR TEACHERS. Prerequisites: Spanish 214 (T) or equivalent; Permission from Department. Enrollment is limited to Education majors and minors, K-12 teachers, and Spanish majors and minors. This course is designed to introduce the student or practitioner to the Spanish language, vocabulary, and culture in the context of specific school situations, in order to better prepare them for a globalized economy and job market.

219. INTERMEDIATE SPANISH CONVERSATION (Credit, 3 hours). Emphasis on the development of listening and speaking competency. Prerequisites: SPAN 200 or equivalent.

255. ADVANCED SPANISH (Credit 3 hours). Intensive review of Spanish grammar and Syntax. Cultural readings for conversation and discussion

in Spanish compositions, exercises and translations. Prerequisite: SPAN 200-201.

300. INTRODUCTION TO READINGS IN HISPANIC LITERATURE (Credit 3 hours). Course designed to give students the necessary vocabulary for literacy study and analysis. Lectures on the different genres in literature, Readings in Spanish, class discussions and compositions. Prerequisite: SPAN 200-201.

302. SPANISH CIVILIZATION (Credit, 3 hours). A study of the historical and ethnic background of Spain as well as its political institutions and cultural expressions. Readings, discussions, and special projects. Prerequisite: SPAN 201 or equivalent.

303. SPANISH-AMERICAN CIVILIZATION (Credit 3 hours,). A study of the historical and Ethnic background of Spanish America as well as the political institutions and cultural expressions of these countries. Readings, discussions and special projects. Prerequisite: SPAN 201 or equivalent.

304/305. INTRODUCTION TO SPANISH LITERATURE (Credit, 3 hours). From the early chronicles through the present time. Prerequisite: SPAN 300.

306/307. INTRODUCTION TO SPANISH-AMERICAN LITERATURE (credit, 3 hours). From the early chronicles through the present Time. Prerequisite: SPAN 300.

360. AFRO-LATINO HISTORY AND CULTURE. Prerequisite: None. This course will be taught in English, may serve as a Spanish elective for Spanish majors and minors, and may also serve as a Humanities elective for students university-wide. The general aims of the course are to identify and implement instructional strategies and materials that focus on students' understanding and appreciation of the diverse cultural groups in a pluralistic society. The specific aim of the course is to provide an overview of Latin American culture and civilization with particular emphasis on the historical and cultural conditions and contributions of the descendants of Africans in Latin America.

380. ADVANCED SPANISH COMPOSITION AND CONVERSATION (Credit, 3 hours). Course designed to provide additional experience in the use of the written and spoken language.

Classroom sessions and laboratory work. Prerequisite: SPAN 219.

402. SPANISH PROSE (Credit, 3 hours). Study of Spanish and Spanish-American prose, focusing on a period, and area, an author, etc. Prerequisites: SPAN 304-305, OR 306-307.

403. APPLIED SPANISH LINGUISTICS (Credit, 3 hours). Structures of the Spanish Language and their application in the classroom situation. Prerequisite: SPAN 300.

404. SURVEY OF SPANISH DRAMA (Credit, 3 hours). Study of the origins of Spanish drama. Readings from the Golden Age through the 20th century. Prerequisites: SPAN 302 or 303, and 305 and 307.

405. CONTEMPORARY SPANISH-AMERICAN LITERATURE (Credit, 3 hours). From the generation of 1898 to the present time, including Afro-Caribbean authors. Prerequisites: SPAN 302 OR 303.

410. SPECIAL TOPICS IN SPANISH (Credit, 3 hours). Before the course can be offered, a topic must be agreed upon by students and instructor. May be taken for maximum of six hours credit when topics vary. Permission from the department Chair required.

460. SECOND LANGUAGE METHODOLOGY (Credit, 3 hours). Course introduces students to the field of applied linguistics and second Language research. Students develop skills in analyzing second language data produced by learners of English, Spanish French, German, Chinese and other foreign languages. Taught in English. Prerequisite: SPAN 201 or Permission from the Department.

482. MEXICAN AND MEXICAN-AMERICAN LITERATURE AND FOLKLORE (Credit, 3 hours). A study of Mexican and Mexican-American Literature and folklore in an historical and cultural context. Lectures and readings in English. Prerequisites: SPAN 303 and 304, or 305.

499. READINGS IN SPANISH (No Credit). Designed for persons who expect to take a graduate reading examination.

## **SPECIAL EDUCATION (SPED)**

### **Hearing Impairments**

410. NORMAL SPEECH AND LANGUAGE DEVELOPMENT (Credit, 3 hours). Concepts, methods, and research in the nature of the acquisition of speech and language.

427. METHODS OF TEACHING BASIC ELEMENTARY SUBJECTS TO STUDENTS WHO ARE DEAF OR HARD OF HEARING (Credit, 3 hours). Introduction to unit planning, lesson planning, and development and adaptation of materials and instructional media, technology and procedures to fit the special educational needs of hearing impaired children who are deaf or hard of hearing on pre-school, elementary, intermediate, and advanced levels.

434. FOUNDATIONS OF EDUCATION OF CHILDREN WHO ARE DEAF OR HARD OF HEARING (Credit, 3 hours). History of deaf education; methods, procedures, and techniques used in the education of children who are deaf or hard of hearing; and the effects of children.

435. SPEECH FOR CHILDREN WHO ARE DEAF OR HARD OF HEARING (Credit, 3 hours). Development of speech in children who are deaf or hard of hearing; phonetic aspects of speech; methods of teaching speech to children who are deaf.

436. LANGUAGE FOR CHILDREN WHO ARE DEAF OR HARD OF HEARING (Credit, 3 hours). Development of language of children who are deaf and methods of teaching language to children who are deaf. Preschool - 12.

461. MANUAL COMMUNICATION I (Credit, 3 hours). An introduction to American sign language. Emphasis will be placed on the development of receptive sign language skills and orientation to American deaf culture.

465. CLINICAL PRACTICE WITH INDIVIDUALS WHO ARE DEAF OR HARD OF HEARING (Credit, 3 hours). Observation participation, and directed pre-teaching experiences with individuals who are deaf or hard of hearing in educational, social, religious, and political settings.

489. MANUAL COMMUNICATION II (Credit, 3 hours). Continuation of instruction in American sign language. Emphasis on receptive comprehension, semantics, and development of the expressive components of American Sign Language at the survival level, and development of understanding of the culture of the Louisiana deaf community.

### **Mild/Moderate Disabilities (1-12)**

299. SURVEY OF STUDENTS WITH DISABILITIES (Credit, 3 hours). This course is an introduction to the special populations of exceptional students. It focuses on litigation resulting in the mandated provision of services for children with special needs; definitions, etiologies, prevalence, characteristics, learning environments, and general assessment of exceptional students; and the special education technology appropriate for students with special needs. Preprofessional teachers will identify, define, discuss, as well as compare and contrast issues in special education that focus on 1) exceptionality, 2) legal aspects, 3) general assessment and evaluation concepts in special education, 4) general service delivery and instruction concepts, 5) learning environments and technology, and 6) be involved in field expediences in special education settings and with special education technology.

301. CHARACTERISTICS OF CHILDREN WITH MILD/MODERATE LEARNING PROBLEMS (Credit, 3 hours). A study of the literature regarding etiology, behavioral aspects, treatment, and education of the mildly to moderately mentally retarded, the emotionally disturbed or socially maladjusted, and the learning disabled.

306. MEASURE AND EVALUATION OF ATYPICAL CHILDREN (Credit, 3 hours). Definition and terminology in tests and measurements for the exceptional child. Description, analysis, and interpretation of various formal and informal evaluation instruments.

307. PRACTICUM: MEASUREMENT AND EVALUATION OF ATYPICAL CHILDREN (Credit, 3 hours)(Lec., 3 hours; Field Experiences, 40 hours). Field work emphasizing the practical

application of informal and formal testing procedures. Prerequisite: SPED 306. Spring.

403. BEHAVIOR DISORDERS OF CHILDREN (Credit, 3 hours). An introduction to descriptive behavior programs in the classroom, and personality disorders in children, their diagnosis, assessment, and remediation.

405. METHODS OF TEACHING ACADEMIC SUBJECTS TO CHILDREN WITH MILD/MODERATE LEARNING PROBLEMS (Credit, 3 hours). The development of teaching units in academic subject areas, development and adaptation of materials, media, and procedures to accommodate children with mild to moderate learning problems. Field experience required.

406. DIAGNOSTIC AND PRESCRIPTIVE READING FOR MILD/MODERATE LEARNERS (Credit, 3 hours). Diagnostic procedures and prescriptive methods and materials for teaching children with deficient reading skills. Prerequisites: SPED 300 and 301.

408. BEHAVIORAL APPROACHES TO MANAGING CHILDREN WITH LEARNING PROBLEMS (Credit, 3 hours). A study of behavioral management problems applicable for use with children with mild to moderate learning problems.

409. CLASSROOM ORGANIZATION AND MANAGEMENT FOR CHILDREN WITH LEARNING PROBLEMS (Credit, 3 hours). The organization and classroom management of classes for children with mild to moderate learning problems with emphasis of curriculum and educational techniques.

410. METHODS OF TEACHING STUDENTS WITH LEARNING AND BEHAVIOR PROBLEMS (Credit, 3 hours). The organization and classroom management for children with learning and behavioral problems with special emphasis on application of current classroom strategies. Field experience required. Prerequisite: SPED 403.

411. NON-BEHAVORIAL APPROACHES TO MANAGING CHILDREN WITH LEARNING PROBLEMS (Credit, 3 hours). A study of classroom ecology in the management of children with learning problems.

417. MAINSTREAMING PRACTICUM (Credit, 3 hours). Student teaching in regular education 60 clock hours.

418. TEACHING PRE-VOCATIONAL SKILLS TO MILD/MODERATE LEARNERS (Credit, 3 hours). Methods of assessing pre-vocational programs for mild to moderate learners. Prerequisites: SPED 300 and 301. Fall.

419. TEACHING VOCATIONAL SKILLS TO MILD/MODERATE LEARNERS (Credit, 3 hours). Methods of assessing pre-vocational progress for mild to moderate learners. Emphasis also on job tryouts and managing appropriate behaviors.

478. STUDENT TEACHING WITH MILD/MODERATE LEARNERS (Credit, 9 hours). Students will complete a minimum of 200 hours of supervised student teaching with students who have mild to moderate learning problems. Spring.

480. MENTAL HYGIENE (Credit, 3 hours). Emphasizing preventions of behavior disorders; concepts of normality and adjustment.

### **SPEECH-LANGUAGE PATHOLOGY (SPAU)**

210. GENERAL SPEECH (Credit, 3 hours). An orientation into the functions, principles, and types of effective speech arts in business, social, and professional situations.

230. INTRODUCTION TO PHONETICS (Credit, 3 hours). A study of the physics and physiology of speaking. An introduction to the principles of phonetics transcriptions with laboratory practice sessions.

250. NORMAL SPEECH AND LANGUAGE DEVELOPMENT (Credit, 3 hours). Concepts, theories, methods, and research on the nature of the acquisition of speech and language.

260. INTRODUCTION TO COMMUNICATIVE DISORDERS (Credit, 3 hours). A study of the nature, etiology, and remediation of speech, language, and hearing disorders.

270. ANATOMY AND PHYSIOLOGY OF EAR AND VOCAL MECHANISM (Credit, 3 hours). Anatomy of the speech and hearing mechanism; and physiology of speech production with some emphasis on the neurological bases of speech.

280. INTRODUCTION TO AUDIOLOGY (Credit, 3 hours). Theory and practice of audiometric testing, theories of hearing, interpretation of audiograms, causes and types of hearing loss, and relationship of audiology to speech therapy. Prerequisites: SPAU 260 and 270.

310. VOICE SCIENCE (Credit, 3 hours). Vocal anatomy, physical characteristics of speech sounds, and laboratory instrumentation. Prerequisites: SPAU 230.

320. ARTICULATION DISORDERS (Credit, 3 hours). Etiology, diagnosis, and therapy of articulatory defects. Observational experience provided in the Speech and Hearing Clinic. Prerequisites: SPAU 230 and 260. Must earn a "B" or better to enroll in clinical practicum.

340. HEARING TESTING (Credit, 3 hours). A course providing experience in clinical hearing testing. Includes the various techniques used in screening, diagnosis, prognosis, and evaluation. Prerequisite: SPAU 280.

345. AURAL REHABILITATION (Credit, 3 hours). A consideration of theoretical and methodological approaches to auditory training, amplification, and speech reading in the rehabilitation process of the hearing impaired. Prerequisite: SPAU 280.

355. VOICE DISORDERS (Credit, 3 hours). Etiology, diagnosis, and clinical management of voice disorders. Observational experiences provided in the Speech Pathology and Audiology Clinic. Prerequisites: SPAU 260, 270, and 310.

365. LANGUAGE DISORDERS (Credit, 3 hours). Types, degrees of severity, etiology, and assessment of language disorders. Emphasizes the linguistic, neurological, biological, psychological, and other aspects of

behavior relative to childhood language disorders. Prerequisites: SPAU 230, 250, and 260. Must earn a "B" or better to enroll in clinical practicum.

460. DISORDERS OF RHYTHM (Credit, 3 hours). A systematic survey of the literature dealing with the causes, symptomatology, and therapies related to the problems of dysfluencies. Observational experiences are provided in the Speech and Hearing Clinic. Prerequisite: SPAU 260.

466. DIAGNOSTIC METHODS IN SPEECH PATHOLOGY LECTURE (Credit, 3 hours). Instruction and practical experiences in the appraisal and diagnosis of speech, language, and hearing problems. Students are required to complete 25 clinical clock hours of observation of speech, language, and/or hearing problems. Prerequisites: SPAU 230, 250, 260, 280, and 320. Must earn a "B" or better to enroll in clinical practicum.

467. CLINICAL LABORATORY IN SPEECH-LANGUAGE PATHOLOGY (Credit, 1 hour). An introduction to assessment, diagnostic, and treatment techniques for speech, language, and learning impairments. Students receive training in the administration and interpretation of assessment results, as well as in designing treatment strategies. Various assignments designed to provide students with hands-on experience are given in these areas. Emphasis is placed on writing required reports including diagnostic reports, case summaries, treatment plans, and lesson plans. Co-requisite: SPAU 466.

468. INTRODUCTION TO CLINICAL PRACTICUM (Credit, 2 hours). Intensive supervised clinical practice in management, examination, diagnosis, and therapy of speech language and hearing disorders in children and adults. Helps to qualify the students to meet professional standards and clinical requirements, particularly those of the State of Louisiana and the American Speech and Hearing Association. Prerequisites: SPAU 250, 320, 365, and 466.

469. ADVANCED CLINICAL PRACTICUM (Credit, 3 hours). Continuation of SPAU 468. Prerequisite: SPAU 468.

470. LANGUAGE AND CULTURE (Credit, 3 hours). The study of the psychosociological implications of differences in the phonological, syntactic and semantic aspects of language. Emphasis is placed on the impact of cultural variables on language. Prerequisite: SPAU 230 and 250 or consent of the instructor.

472. OROFACIAL DISORDERS (Credit, 3 hours) Emphasizes the effects of orofacial anomalies on the communication process. Also concerned with the articulatory, phonatory, and resonance aspects as well as rehabilitation principles. Prerequisites: SPAU 260, 270, and 310.

474. NEUROLOGICAL DISORDERS (Credit, 3 hours). Places emphasis upon the etiologies of speech and language disorders from a neurophysiological perspective which includes diagnostic and remediation procedures. Prerequisites: SPAU 260 and 270.

## **SPEECH AND THEATRE (SPTH)**

100/101. DEPARTMENTAL LABORATORY (Credit, 1 hour). Designed to provide practical experiences through involvement in co-curricular activities.

120. FUNDAMENTALS OF SPEECH (Credit, 3 hours). An introduction to the field of speech communication including the basic functions, codes, and processes.

130. FUNDAMENTALS OF COMMUNICATION THEORY (Credit, 3 hours). An introduction to the field of speech communication including a theoretical understanding of the disciplines of intrapersonal, interpersonal, small group, organizational, rhetorical, political, and mass communication.

150. FUNDAMENTALS OF THEATRE (Credit, 3 hours). An introduction to the literature and history of the theatre. A survey and analysis of the crafts of live theatre as an art form. May be taken as a humanities elective.

200/201. DEPARTMENTAL LABORATORY (Credit, 1 hour each). Designed to provide practical experiences through involvement in co-curricular activities.

210. TECHNIQUES OF SPEECH (Credit, 3 hours). Practice in the preparation and presentation of original speeches. Development of oral communication skills useful in business, teaching, professional, and informal speaking situations where effective oral communication skills are essential.

270. STAGECRAFT (Credit, 3 hours). An introduction to theatre technology and the crafts of physical theatre production. Included are scenic construction, painting, and theatre rigging. Introduction of practical application of computer programs to theatre technology included where feasible. SPTH 271 must be taken concurrently with SPTH 270.

271. STAGECRAFT LABORATORY (Credit, 1 hour). A practicum employing the principles of stagecraft in backstage work and crew assignments. Required in conjunction with SPTH 270.

275. ADVANCED STAGECRAFT (Credit, 3 hours). The study of stagecraft which emphasizes state-of-the-art materials and techniques. Introduction to techniques which are necessary for the more advanced design course. Introduction of practical application of computer programs to theatre technology included where feasible. SPTH 276 must be taken concurrently with SPTH 275. Prerequisites: SPTH 270 or consent of instructor.

276. ADVANCED STAGECRAFT LABORATORY (Credit, 1 hour). An advanced practicum employing the principles of stagecraft in backstage work and crew assignments. Required in conjunction with SPTH 275.

300/301. DEPARTMENTAL LABORATORY (Credit, 1 hour each). Designed to provide practical experiences through involvement in co-curricular activities.

310. BUSINESS AND PROFESSIONAL COMMUNICATION (Credit, 3 hours). The development and practice of those oral communication skills necessary in business and professional situations. Course emphasizes those skills requisite to securing advancement within the corporate and professional worlds. Includes experiences in interviewing, individual presentations, and group problem solving.

330. VOICE AND PHONETICS (Credit, 3 hours). The study of articulatory phonetics and the physical, physiological, and psychological bases of speech and voice production. Emphasis on personal speech improvement.
340. ORAL INTERPRETATION OF LITERATURE (Credit, 3 hours). Basic principles for the oral presentation of literature, including practice in the selection, analysis, and reading for audiences from drama, poetry, and prose. Offered in alternate years.
345. ARGUMENTATION AND DEBATE (Credit, 3 hours). Principles and techniques of argumentation and debate, including analysis, briefing, evidence, reasoning, and refutation. Debating on vital questions. Prerequisites: SPTH 210 or 220.
360. THEATRE HISTORY (Credit, 3 hours). A comprehensive study of the history and literature of the theatre from the Greeks to the modern era. Representative plays are studied in the context of social setting and staging practices.
375. STAGE MAKEUP (Credit, 3 hours). Principles and techniques for the design and application of makeup, including street, straight, and character makeup applications. (Offered in alternate years.)
380. ACTING (Credit, 3 hours). The fundamental theories and techniques of the acting craft as they apply to the individual and the ensemble. Exercises in movement, voice, and interpretation as they relate to character-ization and character development.
399. AFRICAN-AMERICAN ARTS SEMINAR (Credit, 3 hours). A study of the contributions of African-Americans in the theatre, music, and visual arts of the 20th century. Fulfills humanities and African-American experience requirements.
- 400/401. DEPARTMENTAL LABORATORY (Credit, 1 hour each). Designed to provide practical experiences through involvement in co-curricular activities.
420. HISTORY OF PUBLIC ADDRESS (Credit, 3 hours). A survey of the development of oral communication with emphasis on innovations and innovators from the fifth Century B.C. to the present time.
430. PUBLIC SPEAKING (Credit, 3 hours). The study and practice of formal platform oratory. Emphasis is placed on forms of oral discourse, particularly theories of persuasion and argumentation, and ceremonial and occasional speaking. Prerequisites: SPTH 210 or consent of instructor.
440. DISCUSSION AND INTERPERSONAL COMMUNICATION IN ORGANIZATIONS (Credit, 3 hours). The study of interpersonal communication, the nature of groups, both formal and informal, and speech communication theory and practice in organizations.
443. WOMEN IN THEATRE (Credit, 3 hours). Course designed to increase the student's knowledge of the history of women in theatre from their absence from the stage and their appearance as constructions of male authors to their presence as playwrights, directors, actresses, producers, and other practitioners often omitted from history texts. In addition, students will study 5 to 10 women playwrights and selected principles of feminist theory, which they will practice applying to plays and performances by women and men.
445. ADVANCED ARGUMENTATION AND DEBATE (Credit, 3 hours). The study of argumentative discourse and its application to satory and formal debate situations. Prerequisites: SPTH 345 or consent of instructor.
450. DESIGN FOR THE STAGE (Credit, 3 hours). The study of design elements, principles, and techniques as they may apply to the creation of scenery, costumes, and lighting for the stage. Prerequisites: SPTH 275 or consent of instructor.
480. CHILDREN'S THEATRE (Credit, 3 hours). An introduction to the theory and philosophy of play production for youth, including the study of representative dramatic literature for children. Course may involve performance as a part of course requirements. Recommended for teachers.
490. PLAY PRODUCTION AND DIRECTION (Credit, 3 hours). The techniques of play direction with emphasis on the director as the interpretative artist and administrator of the production company.
495. SPECIAL PROBLEMS (Credit, 1-3 hours). This course may be elected by students of advanced standing, who will submit a proposed special project to the faculty for approval during the semester prior to enrollment. Projects may be

of a research or creative nature and may be selected from, but are not necessarily limited to, the following areas: acting, directing, forensics, oral interpretation, dramatic literature and/or criticism, theatre management, play-writing, theatre history, or an area of design or technical production.

### **SWAHILI (SWAH)**

214. **ELEMENTARY SWAHILI I** (Credit, 3 hours). Introduction to elementary structures in the Swahili language. Emphasis on the fundamental skills required to read, write, speak and understand Swahili, while simultaneously providing basic insight into Eastern African societies and cultures through a Swahili perspective. Prerequisite: none.

215. **ELEMENTARY SWAHILI II** (Credit, 3 hours). Continuation of 214 with increased emphasis on speaking, reading, and writing activities combined with deepening students' appreciation of the role of Swahili in Eastern African socio-cultural development. Prerequisite: SWAH 214.

### **THERAPEUTIC RECREATION AND LEISURE STUDIES (TRLS)**

200. **INTRODUCTION TO LEISURE AND RECREATIONAL SERVICES** (Credit, 3 hours). Provides an introduction to the field of leisure and recreation services from the viewpoint of consumers, of societal agencies providing services, and of professional practitioners. Includes history, theory, orientation to public and private providers of leisure services, and to professional organizations.

202. **INTRODUCTION TO THERAPEUTIC RECREATION SERVICES** (Credit, 3 hours). Provides an orientation to the current practices within the therapeutic recreation profession. Includes terminology, history orientation to various disability groups, and the role of therapeutic recreation in the provision of recreation services for the disabled in community and institutional settings.

245. **LEGAL FOUNDATION OF LEISURE** (Credit, 3 hours). Emphasis on legal concepts, risk management, legal foundation and responsibilities, the legislative process, policy

formation on leisure behavior, and service in all levels of government.

293. **THERAPEUTIC RECREATION INTERVENTION STRATEGIES** (Credit, 3 hours). Provides an introduction to the primary modalities used in therapeutic recreation for a client's functional improvement. Emphasis on learning how to choose and justify an intervention used with a client.

300. **PRINCIPLES OF LEADERSHIP FOR LEISURE SERVICES** (Credit, 3 hours). The student is provided with a basic understanding of how to work effectively with groups of people. Specific techniques and problems are discussed as they relate to different types of recreation activities. Prerequisites: TRLS 200 and 245.

301. **GENERAL PRINCIPLES OF RECREATION PROGRAMMING**. (Credit, 3 hours). An analysis of various methods of approaching recreation program planning for communities and individuals. Emphasis is on practical application through classroom discussions and stimulations and through community-based activities. Prerequisites: TRLS 200 and 245.

304. **THERAPEUTIC RECREATION PROGRAM PLANNING** (Credit, 3 hours). Designed to enable the student to apply knowledge of recreational philosophy, disabling conditions, and recreational activities into plans which will enable individual clients to function within society. Practical experience within a clinical site is an integral part of the course. Prerequisites: TRLS 200, 245, 293, 300, 301, 356, BIOL 223.

310. **FIELDWORK SEMINAR** (Credit, 3 hours). Emphasizes human relationships in the work place, how to apply for professional placement, and networking with other professionals. Also discusses the purpose of internship and the requirements for junior and senior level internship. Prerequisites: TRLS 200, 202, 245, 293, and 300.

311. **FIELDWORK** (Credit, 3 hours) (180 hours over a six-week period). Laboratory experience requires the student to work within an approved agency providing recreational programming. Prerequisite: TRLS 310.

340. RECREATION SKILLS (Credit, 3 hours). Provides students with skills within each modality of leisure service. Activities to be included will be sports, crafts, music, dramatics and other types of recreational activities to span the entire scope of leisure services.

356. THERAPEUTIC RECREATION ASSESSMENT AND EVALUATION TECHNIQUES (Credit, 3 hours). Theory and skill development of assessment techniques used in therapeutic recreation settings. Determination of appropriate techniques to be used in relationship to the functional needs and abilities of the clientele. History and skill development of documentation procedures. History and skill development and quality assurance plan creation, evaluation, and implementation. Prerequisites: TRLS 202 and 293.

401. CAMP COUNSELING AND MANAGEMENT (Credit, 3 hours) (Lec., 3 hours; Lab, 1 hour). Emphasizes the organization and administration of camps, includes program planning, counseling, selection and training of staff, camp site selection and development, and the use of local, state, and national parks. Includes direct involvement in a camping experience at a local site. Prerequisites: TRLS 200, 202, 241, 293, 300, 301, and 403.

402. MANAGEMENT OF RECREATION (Credit, 3 hours). Emphasis on the organization and administration for all types of public and commercial recreational agencies. Included are discussions concerning staff supervision, financing programming, and facility construction and maintenance. Prerequisites: TRLS 200, 202, and all 300-level TRLS courses.

403. FUNDAMENTALS OF OUTDOOR RECREATION (Credit, 3 hours). Focuses on health and safety techniques, survival techniques, and conservation practices. Emphasis on outdoor recreation skills. Prerequisites: TRLS 200.

409. MANAGEMENT OF AQUATICS (Credit, 3 hours). Designed to acquaint students with aquatic materials, equipment, and structures. Emphasis will be placed on extensive community use, with special emphasis on water shows and aquatic schools. Prerequisites: Swimming skills, TRLS 200, 241, and 300.

411. INTERNSHIP (Credit, 3 hours) (Lab, 350 hours). Full-time placement at a professional site within the United States for a minimum of 15 weeks. Instructor's permission required. Prerequisites: Maximum of nine hours of social science and/or recreational skill courses remaining at time of placements. Instructor's permission required.

465. SOCIAL RECREATION (Credit, 3 hours). Designed to teach skills and techniques for conducting formal and informal, planned, and spontaneous social programs for people of all ages.

## UNIVERSITY COLLEGE STUDIES (UCOL)

205. CRITICAL THINKING AND ANALYTICAL REASONING (Credit, 3 hours). This course is a formal approach to developing thinking skills (cognitive, evaluative, analysis, synthesis, etc.) that are key components of learning, especially learning from written material. This course is designed to satisfy a humanities elective requirement for second semester University College Academy students, students being readmitted after suspension, and any other student seeking to satisfy one of the humanities elective requirements.

## URBAN FORESTRY (UFOR)

151. URBAN FORESTRY (Credit, 2 hours). A basic course that covers the history of urban forestry, benefits of the urban forest and urban forestry relationship to other discipline.

251. URBAN FOREST SOIL AND ENVIRONMENT (Credit, 3 hours) ( Lec., 2 hours; Lab, 2 hours ). Emphasis on soil physical and chemical properties and their relations to the growth and development of urban forest communities.

271. ENVIRONMENTAL SCIENCE (Credit, 3 hours) ( Lec., 2 hours; Lab, 2 hours). Course focuses on the principles of science and ecology, population, resources, pollution, environment, and society.

278. URBAN DENDROLOGY (Credit, 3 hours) ( Lec., 1 hour; Lab/Field, 4 hours). Taxonomy and identification of important forest trees in the

United States and Canada with special emphasis on trees suitable for the urban environment.

288. URBAN WILDLIFE MANAGEMENT (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Principles and techniques of urban wildlife management. Required field trips.

299. URBAN FORESTRY SUMMER INTERNSHIPS (Credit, 3 hours). Individual experience in approved institutional or industrial position related to urban forestry. 8 to 10 weeks during the summer.

333. FOREST SCIENCE (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Basic principles and practices of traditional forestry including forestry biology, programs, management, products, and policies.

371. PLANT HEALTH CARE (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Consolidation of all plant protection disciplines into an ecologically based multidisciplinary approach to the protection of plants, especially woody plants. Contributions from the fields of plant pathology, entomology, and weed science will be explored. Economic planning and current IPM models related to urban forestry will be studied.

375. INTRODUCTION TO GIS (Credit, 3 hours). A study of Geography Information Systems (GIS). Global Positioning System (GPS), an overview of the functions and capabilities of ARC-VIEW GIS.

364. ARBORICULTURE I (Credits, 3 hours). (Lec., 2 hours; Lab, 2 hours). Basic principles of tree care and management.

391. URBAN FOREST ECOLOGY (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Ecological energetics, evolution, biogeochemistry, physical and biotic environments, temporal and spatial changes in ecosystems, and application of ecological information in the management of urban forest ecosystems. Prerequisite: UFOR 271.

399. URBAN FORESTRY SUMMER INTERNSHIPS (Credit, 3-6 hours). Individual experience in approved institutional or industrial position related to urban forestry (8-10 weeks during the summer).

400. URBAN FOREST RESOURCE EVALUATION AND TREE INVENTORY (Credit, 3 hours) (Lec., 2 hour; Lab, 2 hours). Use of statistics, remote sensing, integrated geographic information systems (GIS) and global positioning systems (GPS) to evaluate urban forest resources such as urban trees, soils, water and wildlife. Prerequisite: UFOR 278.

410. TREE GENETICS AND IMPROVEMENT (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Deals with genetic relationships among tree species including seed orchard management, provenance testing, exotic species introduction, hybridization, selective breeding, vegetative propagation, controlled pollination, progeny testing, and genetic gain.

415. URBAN FOREST PATHOLOGY (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Diseases of forest and shade trees and their effects on management and utilization of urban forests.

417. URBAN FOREST ENTOMOLOGY (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Study of insects that attack forest trees. Special emphasis on insects that attack tree species in urban areas.

438. URBAN TREE PHYSIOLOGY (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). The fundamental principles of plant physiology with particular reference to the growth and development of woody plants. Consideration of the influence of genetic and environmental factors, especially urban environment, on physiological processes in trees. Major emphasis focuses on tree structure and wood formation, vegetative and reproductive growth, gas exchange, primary and secondary products, tree nutrition, water relations, and seed physiology.

455. URBAN FOREST MANAGEMENT (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Principles and modern methods of urban forest planning and management: organizational, legal, economic, cultural, and environmental relations. Major emphasis on urban forestry concepts and issues, tree and landscape ordinances, tree appraisal, planning and tree master plans, urban forestry program management and funding, tree boards and community volunteerism, and special topics.

457. URBAN HYDROLOGY (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Water and its interrelationships with man, introduction to city physiology and anatomy, analyses of stream flow, stream water quality, hydrologic change due to urbanization, modeling of water quantity and quality of urban watershed, and structure and non-structure control measures in urban water resources planning.

464. ARBORICULTURE (Credit, 4 hours) (Lec., 2 hours; Lab, 2 hours). Advanced techniques of species selection, establishment, and cultural practices used in the care and maintenance of shade and ornamental trees. Physiological relationships involved in plant propagation with emphasis on environmental factors as they relate to plant growth, structure, and nursery conditions. Required field trips.

466. URBAN RECREATION AND PARK MANAGEMENT (Credit, 3 hours)(Lec., 2 hours; Lab, 2 hours ). Management of urban outdoor recreation areas. Planning, development, and maintenance of parks and city forest recreation areas. Required field trips.

### **VISUAL ARTS (ARTS)**

110/111. DESIGN (Credit, 3 hours each; Contact, 6 hours). A study of the principles of design, computer application, and the plastic elements. Emphasis is on two-dimensional and three-dimensional design problems. ARTS 110 is prerequisite for ARTS 111. Course fulfills University requirement for computer literacy. Fall and spring, respectively.

130/131. DRAWING (Credit, 3 hours each; Contact, 6 hours). A basic approach to linear representation with attention to space, gesture, value, texture, and shape. ARTS 130 is prerequisite for 131. Fall, Spring.

200. UNDERSTANDING THE ARTS (Credit, 3 hours; Contact, 3 hours). Lecture and discussion of the visual arts with emphasis on how and why works have been created in our own and earlier times. Satisfies the arts requirement for non-majors.

201. INTRO. TO ART THERAPY. (Credit, 3 hours; Contact, 6 Hours) This course is designed to provide an introduction and basic understanding of the relatively new and rapidly developing field of Art Therapy. The material presented will be useful and appropriate for students preparing for a variety of human service professions.

210/211. SURVEY OF WORLD ART (Credit, 3 hours each; Contact, 3 hours). Study of the artistic contributions of Africa, Europe, Asia, and the Americas from pre-history to modern times. ARTS 210 is a prerequisite for ARTS 211. ARTS 210 offered fall semester. ARTS 211 offered spring semester.

221. COMPUTER GRAPHICS (Credit, 3 hours; Contact, 6 hours). Introduction to the computer and it's applications: Adobe PageMaker, Adobe Illustrator, and Adobe Photoshop.

222. PRINTMAKING (Credit, 3 hours; Contact, 6 hours). An introduction to various printmaking processes. Etching, intaglio, woodcut, linoleum, collograph, and silkscreen. Work in black and white. Prerequisites: ARTS 110 and ARTS 130. Fall.

250/251. DRAWING (Credit, 3 hours; Contact, 6 hours). Figure drawing with the use of various media and techniques. ARTS 250 is prerequisite for ARTS 251. Prerequisite: ARTS 131. Fall and spring, respectively.

310/311. SCULPTURE (Credit, 3 hours; Contact, 6 hours). The exploration of materials and basic ideas common to sculpture. Prerequisites: ARTS 110, 111, and 130. ARTS 310 is prerequisite for ARTS 311. Fall, spring respectively.

322. PRINTMAKING (Credit, 3 hours; Contact, 6 hours). Advanced techniques in the various printmaking processes. Prerequisite: ARTS 222. Spring.

330. CERAMICS (Credit, 3 hours; Contact, 6 hours). Basic methods in the production of pottery, decoration, mold making, and kiln firing. Fall.

331. CERAMICS (Credit, 3 hours; Contact, 6 hours). A continuation of ARTS 330, with emphasis placed upon throwing, mold making, and glaze experimentation. Prerequisite: ARTS 330. Spring.

332. COMPUTER GRAPHICS (Credit, 3 hours; Contact, 6 hours). The exploration into Adobe Illustrator using rendering effects with type and color blends and postscript drawing. Using Adobe Photoshop students will examine the tools and commands available to paint, draw, adjust, and merge photos, enhance color, scan, and manipulate images. Permission of instructor.

350. THEORY AND FUNDAMENTALS OF WATER COLORING (Credit, 3 hours; Contact, 6 hours). Permission of instructor.

370/371. OIL PAINTING (Credit, 3 hours each; Contact, 6 hours). An emphasis on materials and technique of painting on canvas to develop a personal style.s. Prerequisites: ARTS 110 and 130. ARTS 370 is prerequisite for 371.

390. INDEPENDENT STUDY (Credit, 3 hours; Contact, 6 Hours). Advanced studies in mixed-media studio/art history (printmaking, painting, sculpture, design, or ceramics). Art majors only; permission of instructor.

433. COMPUTER GRAPHICS (Credit, 3 hours; Contact, 6 hours). This course will give students hands-on experience in an internship with the guidance in the design of a portfolio for today's computer graphic industry. Students must have a working knowledge of Adobe Illustrator, PageMaker, and Photoshop. Permission of instructor.

440. AFRICAN-AMERICAN ART (Credit, 3 hours; Contact, 3 hours). An examination of the earliest known African-American artists through the 1960's and their individual contributions to the visual language. Course fulfills University requirement for African-American experience. Prerequisites: None. Offered fall only.

441. TWENTIETH CENTURY ART (Credit, 3 hours; Contact, 3 hours). A study of the movements and styles of modern art and an exposure to contemporary artists. Prerequisite: None. Offered

spring semester only.

494. SENIOR PROJECT (Credit, 3 hours each; Contact, 6 Hours). Art majors ONLY: By faculty recommendation. Independent work in preparation for senior exhibit in the final semester. May be repeated for a maximum of six credits. Art majors may opt to select a 300 or 400 level arts/humanities course as a substitute for senior project.

## WOLOF (WOLO)

100. ELEMENTARY WOLOF I. (Credit, 3 hours) Prerequisites: None. This course is an introduction to the Wolof language, an African language spoken by inhabitants of Senegal, Mauritania, the Gambia, and Mali. Its aim is to provide students with knowledge of the basic structures of the language to enable them to greet people in different settings, ask for directions and basic information, shop, and carry on a simple conversation. Students will develop communicative skills in listening, speaking, reading, and writing in cultural context. Grades are based on class participation, oral performance, and written examinations.

101. ELEMENTARY WOLOF II. (Credit, 3 hours). This course is the second in a two-course sequence that offers an introduction to the Wolof language. Its aim is to provide students with knowledge of the basic structures of the language to enable them to greet people in different settings, ask for directions and basic information, shop, and carry on a simple conversation. Students will develop communicative skills in listening, speaking, reading, and writing in cultural context. Grades are based on class participation, oral performance, and written examinations. Prerequisite: WOLO 100.

## WOMEN'S STUDIES

WMST 209. INTRODUCTION TO WOMEN'S STUDIES (Credit, 3 hours). Introduction to major theoretical approaches in the field of Women's Studies. Utilizing a multicultural and interdisciplinary lens, students will examine women's lives and explore basic concepts regarding the study of gender. This is a required course for the minor in Women's Studies. Prerequisites: ENGL 110, 111. For minors and non-minors.



# Faculty of Instruction and Allied Staff

**Abadie, Mary** (1993), Assistant Professor, Nursing; B.S.N., William Carey College; M.N., Louisiana State University Medical Center.

**Abegboye, David S.** (2006), Adjunct Professor, Biological Sciences; D.V.M., Ahmadu Bello University, Nigeria; Ph.D., University of Cambridge.

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**Alshibli, Khalid A.** (2001), Associate Professor, Civil & Environmental Engineering; B.S., M.S., Jordan University of Science and Technology, Jordan; Ph.D., University of Colorado.

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**Amini, Abolfazl M.** (1994), Professor, Electronic Engineering Technology; B.S.E.E., Southern University; M.S., University of New Orleans; Ph.D., Tulane University.

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- Anadi, Allison** (2004), Associate Professor and Director, Criminal Justice; Ph.D. Eastern Michigan University.
- Anderson, Donald** (1997), Associate Professor, Behavioral Studies; B.S., M.Ed., Southern University; Ed.D., Texas A&M University.
- Anderson, Harry** (2003), Assistant Professor, Music; B.S., M.Ed., Southern University.
- Anderson, Jasmond N.** (2003), Assistant Professor, Architecture; B.S., Prairie View A&M University; M.Arch., University of Illinois at Chicago.
- Anderson, Kissie** (2004), Instructor, Mathematics; B.S., M.S., Southern University.
- Anderson, Morris J.** (1978), Assistant Director, Residential Housing; A.A., B.A., Southern University.
- Anderson, Sheri** (2007), Program Director, Special Education, B.S., Southern University; M.A., The Ohio State University; Ph.D., Purdue University.
- Anderson, Warner J.** (1976), Assistant Professor, Foreign Languages and Assistant to the Dean, International Education; B.A., Southern University; M.A., University of Wisconsin-Milwaukee.
- Andrews, Donald R.** (1974, 1994), Professor, Economics and Dean, College of Business; B.S., Southern University; M.S., University of Florida; Ph.D., Texas A&M University.
- Arasteh, Davoud** (1999), Associate Professor, Electronics Engineering Technology; B.S., Shahid Beheshti University, Iran; M.S., Amir Kabir University, Iran; M.S.E.E., University of Louisiana at Lafayette.
- Arceneaux, Clayton** (2002), Adjunct Professor, Behavioral Studies and Educational Leadership; B.S., Grambling State University; M.Ed., Southern University; Ed.D., University of Missouri.
- Armstrong, Beatrice** (1994), Administrative Assistant, Academic Affairs; B.S., Southern University.
- Arp, William** (1991), Professor, Political Science; B.A., M.A., Southern University; Ph.D., Arizona State University.
- Atkins-Ball, Deidra S.** (2004), Assistant Professor, Biological Sciences; B.S., M.S., Louisiana State University; Ph.D., McHarry Medical College.
- Atkinson, Cheryl** (1993), Associate Professor, Family and Consumer Sciences; B.S., Pratt Institute; M.P.H., Tulane University; Ph.D., Cornell University; Registered Dietitian.
- Augustus, Theda** (1980), Assistant Professor, Computer Science; B.S., M.S., Southern University.
- Azene, Muluneh** (1979), Professor, Civil and Environmental Engineering; B.S., Haile Selassie I University, Ethiopia; M.S., Northwestern University; Ph.D., Texas Tech University; Registered Professional Engineer.
- Bachireddy, Veeraraghava R.** (1978), Professor, Agricultural Sciences; B.S., M.S., Andhra Pradesh Agricultural University, India; Ph.D., University of Arkansas.
- Bagayoko, Diola** (1984), SU System Distinguished Professor and Chancellor's Fellow, Physics; B.S., Ecole Normale Superieure de Bamako, Mali; M.S., Lehigh University; Ph.D., Louisiana State University.
- Baham, Eva S.** (1991), Associate Professor, History; B.A., Southern University; M.A., Ph.D., Purdue University.
- Bai, Shuja** (2001), Assistant Professor, Computer Science; B.S., Beijing Forestry University; M.S., Southern University; M.S., Chinese Academy of Sciences; Ph.D., Purdue University.
- Bambury, Jill E.** (1998), Assistant Professor, Architecture; B.A., Dalhousie; B.E.D.S., B.Arch., Technical University of Nova Scotia; M.Phil., University of Cambridge; Registered Architect.
- Banks, Maya Riley** (1995), Reference Librarian, John B. Cade Library; B.A., Southern University; M.L.I.S., Louisiana State University.
- Banks, Patricia L.** (1997), LPN II, Student Health Services; L.P.N.
- Banks, Victoria J.** (1996), Instructor, Behavioral Studies; B.S., M. Ed., Southern University.
- Baptiste, Paulette B.** (1994), Communications Specialist, Laboratory School; B.S., University of Southwestern Louisiana; M.Ed., Southern University.
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- Batiste, Marlena Dixon** (1995), Instructor, Mathematics; B.S., M.S., Southern University.
- Batiste, Theresa M.** (1997), Counselor, Student Financial Aid; B.S., M.S., Southern University.
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- Bennett, Robert J.** (1978), Director of Student Life, Student Affairs; B.S., M.Ed., Southern University.
- Bethly-Betz, Jessie M.** (1978), Assistant Professor, Computer Science; B.S., M.S., Southern University; M.A.H., Louisiana State University.
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- Bobba, Rambabu** (1986), Professor, Physics; B.S., Andhra University; M.S., School of Studies in Physics, Vu Ujjain; Ph.D., Indian Institute of Technology.
- Bonham, Avé** (1991), Program Advisor, Student Programs Office; B.S., M.S., Southern University; M.A., Northwestern State University.
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- Brown, Ann** (2000), Instructor, Laboratory School; M.Ed., Louisiana State University.
- Brown, Brenda W.** (1970), Instructor, Curriculum and Instruction; B.S., M.Ed., Southern University; Water Safety Instructor Certificate.
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- Carpenter, Dana** (1971), Professor and Associate Vice Chancellor for Academic Affairs/Dean, University College; B.S., Grambling State University; M.A., Northwestern State University; Ph.D., Kansas State University.
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- Charles, Roosevelt** (2002), Outreach Recruiter, Talent Search, University College; B.A., University of Louisiana at Lafayette.
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- Chemay, Frank** (1974), Associate Professor, Visual and Performing Arts; B.M., M.M., Southeastern University.
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- Chriss, Derald** (1981), Assistant Professor, Chemistry; B.S., Southern University, New Orleans; M.S., Southern University.
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- Clark, Deborah** (1997), Associate Professor, Mathematics; B.A., Grambling State University; M.S., Oklahoma State University; Ph.D., Southern University.
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- Coleman, Carolyn** (1979), Instructor, Reading, University College; B.A., M.Ed., Southern University.
- Coleman, Cheryl D.** (1981), Help Desk Specialist, Technology and Network Services; B.S., Southern University.
- Coleman, Derek** (2002), Associate Professor, Biological Sciences; B.S., M.S., Southern University, Ph.D., Louisiana State University.
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- Cook, Robert L.** (2002), Assistant Professor, Chemistry; B.Sc., Concordia University; Ph.D., University of Calgary.
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- Crosby, Karen E.** (2000), Associate Professor, Mechanical Engineering; B.S., Southern University; Ph.D., Louisiana State University.
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