



**SOUTHERN  
UNIVERSITY**

AND AGRICULTURAL & MECHANICAL COLLEGE

BATON ROUGE, LOUISIANA

2017-2020

# CATALOG



**Academic Calendar  
Fall Semester 2017  
(August 21-December 1)**

**July**

Orientation Session 1	July 9 – 11	Sunday – Tuesday
Orientation Session 2	July 16 – 18	Sunday – Tuesday
Orientation Session 3	July 23 – 25	Sunday – Tuesday
Orientation Session 4	July 28	Friday
Transfer and adult students only		

**AUGUST**

First Priority Payment due date	August 4	Friday by 5:00 pm
Book Vouchers	August 9-Sept 1	Wednesday – Friday
Orientation Session 5	August 14 – 16	Monday – Wednesday
Registration Week	August 14-18	Monday – Friday
Faculty Reports	August 14	Monday
Welcome Week for all First Time And Transfer Students	August 16-20	Wednesday - Sunday
First time freshman move-in And New SUSLA-Connect	August 16	Wed (9:00 a.m. – 5:00 p.m.)
Returning students move-In Tuition and fees must be paid in full	August 17	Thurs (9:00 a.m. – 5:00 p.m.)
Second Priority Payment Due Date Non-Payment Purge	August 18	Friday by 5:00 p.m.
Last day to register for fall semester	August 18	Friday
Late fees Begin (\$100)	August 19	Saturday
100% refund for classes dropped for Fall semester	August 20	Sunday by midnight
Add/drop period begins	August 21	Monday
Classes Begin	August 21	Monday
<b>*Attendance Reporting Period (NS/SH)</b> Students who do not report to classes during this period will have their classes removed and financial aid reduced or cancelled.	<b>August 21 – Sept 1</b>	<b>Monday – Friday</b>
75% refund for classes dropped for Fall	August 21- Sept 6	Monday-Wednesday
Final day to add classes	August 25	Friday
Final day to Drop Courses without Receiving a Grade of “W”	August 30	Wednesday
Withdrawal period begins	August 31	Thursday
<b>SEPTEMBER</b>		
Deadline for Receiving Applications for Graduation for Fall 2017	September 1	Friday
College closed for Labor Day	September 4	Monday



Classes Resume	September 5	Tuesday (8:00 a.m.)
50% refund for classes dropped for Fall semester	Sept 7-12	Thursday – Tuesday
Deadline for Paying Tuition and Fees (including late fee)	September 8	Friday
Census Date	September 11	Monday
Student Refunds Begin	September 18	Monday
Career Fair	September 20	Wednesday

### OCTOBER

Last day to apply for Spring Admissions	October 1	Sunday
Fall Holiday	October 12-13	Thursday – Friday
Classes Resume	October 16	Monday
Mid-semester examinations	October 16-20	Monday-Friday
Mid-semester grades due	October 23	Monday
Registration for spring 2018 semester begins	October 30	Monday

### NOVEMBER

Last day to Withdraw from Courses or from the University	November 3	Friday
Thanksgiving Break	November 22-24	Wednesday-Friday
College closed for Thanksgiving	November 23-24	Thursday-Friday
Classes resume	November 27	Monday (8:00 a.m.)
**Concentrated Study Period	November 29 – Dec 1	Wednesday – Friday

No meetings, social activities, athletic events, or other extracurricular activities requiring student participation will be scheduled; no major examinations will be given in academic courses other than labs

### DECEMBER

Last day of classes	December 1	Friday
Final examinations for fall semester	December 4-8	Monday – Friday
Non-graduating students depart housing	December 8	Friday by 5:00 p.m.
Final grades due (degree candidate)	December 12	Tuesday (9:00 a.m. deadline)
Final grades due (non-degree candidate)	December 13	Wednesday (9.00 a.m. deadline)
Graduating students depart housing	December 15	Friday by 5:00 p.m.
Fall 2017 Commencement	December 15	Friday
College closed for winter break	TBD	

### Academic Calendar Spring Semester 2018 (January 10-April 27)

#### December

First Priority Payment due date	December 22	Friday by 5:00 p.m.
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#### JANUARY

Book Vouchers	January 3-24	Wednesday – Wednesday
Student report to housing	January 8	Mon (9:00 a.m. – 5:00 p.m.)

Tuition and fees must be paid in full

Dining Hall Opens	January 8	Monday
Spring Orientation	January 8	Monday
Registration Week	January 4-9	Thursday – Tuesday
Faculty Reports/Convocation	January 8	Monday
Second Priority Payment Due Date	January 9	Tuesday by 5:00 p.m.
Non-Payment Purge		
Last day to register for spring semester	January 9	Tuesday
100% refund for classes dropped for spring semester	January 9	Tuesday by midnight
Classes Begin	January 10	Wednesday
Late fees Begin (\$100)	January 10	Wednesday
Add/drop period begins	January 10	Wednesday
*Attendance Reporting Period (NS/SH)	January 10 – 24	Wednesday - Wednesday
Students who do not report to classes during this period will have their classes removed and financial aid reduced or cancelled.		
75% refund for classes dropped for spring	January 10- 16	Wednesday-Tuesday
Martin Luther King Day holiday	January 15	Monday
Classes resume	January 16	Tuesday
Final day to add classes for Credit	January 19	Friday
50% refund for classes dropped for spring semester	January 17 -21	Wednesday-Sunday
Final day to Drop Course without Receiving a Grade of “W”	January 26	Friday
Withdrawal period begins	January 27	Saturday
Deadline for Paying Tuition and Fees (including late fee)	January 30	Tuesday
Census Date	January 31	Wednesday
Deadline for Receiving Applications for Graduation for Spring 2018	January 31	Wednesday
<b>FEBRUARY</b>		
Student Refunds Begin	February 9	Friday
Mardi Gras holiday	February 12-13	Monday – Tuesday
College closed for Mardi Gras holiday	February 12-13	Monday – Tuesday
Classes resume	March 6	Wednesday
Mid-semester examinations	March 11-15	Monday-Friday
Mid-semester grades due	March 19	Tuesday by 9:00 a.m
<b>APRIL</b>		
Last day to apply for admissions	April 1	Friday
Last day to Withdraw from Courses or from the University	April 5	Friday
Registration for fall and summer 2019 begins	April 8	Monday
Spring Break (no classes)	April 15-19	Monday – Friday

College Closed for Good Friday	April 19	Friday
Classes resume	April 22	Monday
**Concentrated Study Period	April 24 – 26	Wednesday – Friday
No meetings, social activities, athletic events, or other extracurricular activities requiring student participation will be scheduled; no major examinations will be given in academic courses other than labs		
Last day of classes	April 26	Friday
Final examinations for fall semester	April 29- May 1	Monday - Friday

**MAY**

Non-graduating students depart housing	May 3	Friday by 5:00 p.m.
Final grades due (degree candidate)	May 7	Tuesday (9:00 a.m. deadline)
Final grades due (non-degree candidate)	May 8	Wednesday (9.00 a.m. deadline)
Graduating students depart housing	May 10	Friday by 5:00 p.m.
Spring 2019 Commencement	May 10	Friday

**Maymester 2018  
(May 13 – May 24)**

**May**

Classes begin	May 13	Monday
Final day to Drop Courses without Receiving a Grade of “W”	May 13	Monday
Final day to add classes for credit	May 14	Tuesday
Withdrawal period begins	May 14	Tuesday
Last day to Withdraw from Courses or from the University	May 21	Tuesday
Classes end	May 24	Friday
Memorial Day holiday	May 27	Monday
College closed for Memorial Day	May 27	Monday
Final examinations for maymester	May 28	Tuesday
Final grades due	May 29	Wednesday (9:00 a.m.)

*Calendars subject to change\*\**

**Summer 2018  
(June 3 – July 22)**

**May**

Book Vouchers	May 22 – 31	Wednesday – Friday
Registration for all students	May 28-31	Tuesday - Friday
Payment Due Date Non-Payment Purge	May 31	Friday by 5:00 p.m.
<b>June</b>		
Late fee begins (\$100)	June 1	Saturday
Students report to housing	June 2	Sunday (9:00 a.m. – 5:00 p.m.)
Tuition and fees must be paid in full		

Dining hall opens	June 2	Sunday
Summer orientation	June 2	Sunday
Summer semester students only		
Classes begin	June 3	Monday
<b>*Attendance Reporting Period (NS/SH)</b>	<b>June 3-11</b>	<b>Monday - Tuesday</b>
<b>Students who do not report to classes during this period will have their classes removed and financial aid reduced or cancelled.</b>		
Final day to add classes for credit	June 6	Thursday
Final day to Drop Courses without Receiving a Grade of "W"	June 6	Thursday
Withdrawal period begins	June 7	Friday
Deadline for Paying Tuition and Fees (including late fee)	June 11	Tuesday by 5:00 p.m.
Census Date	June 12	Wednesday
Mid-term examination period	June 24-26	Monday – Wednesday

## July

Last day to apply for Fall Admissions	July 1	Monday
Mid-term grade due	July 1	Monday by 9:00 a.m.)
Independence Day Holiday begins College closed for Independence Day Holiday	July 4	Thursday
Classes Resume	July 5	Friday
Last day to Withdraw from Courses or from the University	July 10	Wednesday
Classes end	July 22	Monday
Concentrated Study Day	July 23	Tuesday
Final examinations period	July 24-25	Wednesday – Thursday
Students depart housing	July 25	Thursday by 5:00 p.m.
Final grades due (degree candidate)	July 29	Monday (9:00 a.m.)
Final grades due (non-degree candidate)	July 30	Tuesday (9:00 a.m.)

## August

Official Summer 2019 graduation date	August 2	
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## Fall Semester 2018

### July

Orientation Session 1	July 7 – 9	Sunday - Tuesday
Orientation Session 2	July 14 – 16	Sunday - Tuesday
Orientation Session 3	July 21 – 23	Sunday - Tuesday
Orientation Session 4	August 9	Friday
*Transfer & Nontraditional Students Only		

### AUGUST

First Priority Payment Due Date by 5:00 p.m.	August 2	Friday
Book Vouchers	August 7 – August 30	Wednesday – Friday
First Time Freshmen and Transfer Students Report for Campus Housing	August 11	Sunday (10:00 a.m. – 4:00 p.m.)

Orientation Session 5 *Out-of-State Students Only	August 14 – 16	Wednesday - Friday
Welcome Week for all First Time And Transfer Students	August 12 - 16	Monday - Friday
Registration Week Faculty Reports/Convocation	August 12 - 16 August 12	Monday – Friday Monday
All Students Report to Campus Housing *Tuition and fees must be paid in full	August 15	Thursday
Second Priority Payment Due Date by 5:00 p.m.	August 16	Friday
*Non-Payment Purge Last day to register for fall semester	August 16	Friday
Late fees Begin (\$100)	August 17	Saturday
100% refund for classes dropped for Fall by midnight	August 18	Sunday
Add/drop period begins	August 19	Monday
Classes Begin	August 19	Monday
*Attendance Reporting Period (NS/SH)	August 19 – August 30	Monday – Friday
<b>Students who do not report to classes during this period will have their classes removed and financial aid reduced or cancelled.</b>		
75% refund for classes dropped for Fall	August 19- Sept 4	Monday-Wednesday
Final day to add classes	August 23	Friday
Final day to Drop Courses without Receiving a Grade of “W”	August 28	Wednesday

## SEPTEMBER

Closed for Labor Day	September 2	Monday
Classes Resume	September 3	Tuesday (8:00 a.m.)
Deadline for Paying Tuition and Fees by 5:00 p.m. *(including late fee)	September 6	Friday
Deadline for Receiving Applications for Graduation for Fall 2016	September 6	Friday
50% refund for classes dropped for Fall	Sept 5-Sept 10	Thursday– Tuesday
Student Refunds Begin	September 16	Monday
Constitution Day	September 17	Tuesday
Career Fair	September 18	Wednesday
Last day to apply for Summer Admission	September 30	Monday

## OCTOBER

Fall Holiday	October 3 – 4	Thursday – Friday
Classes Resume	October 7	Monday
Mid-semester examinations	October 7 – 10	Monday-Thursday
Mid-semester grades due	October 15	Tuesday
Registration for Spring 2020 semester begins	October 21	Monday

## NOVEMBER

Last day to Withdraw from Courses or from the University	November 1	Friday
Closed for Thanksgiving Holiday	November 21-22	Thursday-Friday
Classes resume	November 25	Monday (8:00 a.m.)
**Concentrated Study Period	November 27-29	Wednesday – Friday
No meetings, social activities, athletic events, or other extracurricular activities requiring student participation will be scheduled; no major examinations will be given in academic courses other than labs		
Last day of classes	November 29	Friday



**DECEMBER**

Final examinations for fall semester	December 2 – 6	Monday – Friday
Non-graduating students depart housing	December 6	Friday
Final grades due (non-degree candidate)	December 10	Tuesday (9.00 a.m. deadline)
Graduating students depart housing by 5:00 p.m.	December 13	Friday
Fall 2019 Commencement	December 13	Friday
Closed for winter break	TBD	

**Wintersession 2018  
(December 10 – January 2)**

**December**

Classes begin	December 10	Monday
Final day to Drop Courses without Receiving a Grade of “W”	December 10	Monday
Final day to add classes for credit	December 11	Tuesday
Withdrawal period begins	December 11	Tuesday

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Last day to Withdraw from Courses or from the University	December 18	Tuesday
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Winter holiday begins	December 21	Friday
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College closed for winter break	TBD	
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## January

Classes resume	January 2	Wednesday
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Last day of classes	January 2	Wednesday
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Final examinations for wintersession	January 3	Thursday
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Final grades due	January 4	Friday
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## Spring Semester 2019 (January 16-April 26)

### December

First Priority Payment due date by 5:00 p.m.	December 20	Friday
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### JANUARY

Book Vouchers	January 2-22	Thursday- Wednesday
Students Report for Campus Housing 5:00 p.m.)	January 13	Monday (9:00 a.m. –

\*Tuition and fees must be paid in full

Dining Halls Opens	January 13	Monday
Spring Orientation	January 13	Monday
Registration Week	January 9-14	Thursday – Tuesday

Faculty Reports/Convocation	January 13	Monday
Second Priority Payment Due Date by 5:00 p.m.	January 14	Tuesday

#### Non-Payment Purge

Last day to register for spring semester	January 14	Tuesday
100% refund for classes dropped for Spring by midnight	January 14	Tuesday
Classes Begin	January 15	Wednesday
Late fees Begin (\$100)	January 15	Wednesday
Add/drop period begins	January 15	Wednesday

**\*Attendance Reporting Period (NS/SH) January 15 – 29 Wednesday**  
**Students who do not report to classes during this period will have their classes removed and financial aid reduced or cancelled.**

75% refund for classes dropped for Spring	January 15- 21	Wednesday-Tuesday
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Martin Luther King Day holiday	January 20	Monday
Classes resume	January 21	Tuesday
Final day to add classes for Credit	January 24	Friday
50% refund for classes dropped for Spring	January 22 -26	Wednesday-Sunday
Withdrawal period begins	January 28	Tuesday
Final day to Drop Courses without Receiving a Grade of “W”	January 31	Friday

Deadline for Paying Tuition and Fees (including late fee)	January 31	Friday
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**FEBRUARY**

Deadline for Receiving Applications for Graduation for Spring 2019	February 5	Wednesday
Student Refunds Begin	February 14	Friday
Career Fair	February 19	Wednesday
Closed for Mardi Gras Holiday	February 24 – 25	Monday – Tuesday
Classes resume	February 26	Wednesday

**MARCH**

Mid-semester examinations	March 16 - 20	Monday-Friday
Mid-semester grades due by 9:00 a.m.	March 24	Tuesday
Last day to Withdraw from Courses or from the University	March 27	Friday
Registration for Fall 2020 & Summer semester begins	March 30	Monday

**APRIL**

Spring Break (no classes)	April 6 - 10	Monday – Friday
College Closed for Good Friday	April 10	Friday
Classes resume	April 13	Monday
**Concentrated Study Period	April 29 – May 1	Wednesday – Friday

No meetings, social activities, athletic events, or other extracurricular activities requiring student participation will be scheduled; no major examinations will be given in academic courses other than labs

**MAY**

Last day of classes	May 1	Friday
Final examinations for fall semester	May 4 – 8	Monday – Friday
Non-graduating seniors depart housing by 5:00 p.m.	May 8	Friday
Final grades due deadline)	May 12	Tuesday (9:00 a.m.)
Graduating students depart housing by 5:00 p.m.	May 15	Friday
Spring 2019 Commencement	May 15	Friday

**Maymester 2019  
(May 13 – May 24)**

**May**

Classes begin	May 13	Monday
Final day to Drop Courses without Receiving a Grade of “W”	May 13	Monday
Final day to add classes for credit	May 14	Tuesday
Withdrawal period begins	May 14	Tuesday
Last day to Withdraw from Courses or from the University	May 21	Tuesday
Classes end	May 24	Friday
Memorial Day holiday	May 27	Monday
College closed for Memorial Day	May 27	Monday
Final examinations for maymester	May 28	Tuesday
Final grades due	May 29	Wednesday (9:00 a.m.)

### Summer 201

#### May

Book Vouchers May 27 – June 5 Wednesday – Friday

#### June

Registration for all students	June 2 - 5	Tuesday - Friday
Payment Due Date Non-Payment Purge by 5:00 p.m.	June 5	Friday
Late fee begins (\$100)	June 6	Saturday
All Students Report to Campus Housing 4:00 p.m.)	June 7	Sunday (9:00 a.m. –
Tuition and fees must be paid in full		
Dining Halls Opens	June 7	Sunday
Summer Orientation	June 7	Sunday
Classes begin	June 8	Monday
<b>*Attendance Reporting Period (NS/SH)</b>	<b>June 8 - 16</b>	<b>Monday - Tuesday</b>
<b>Students who do not report to classes during this period will have their classes removed and financial aid reduced or cancelled.</b>		
Final day to add classes for credit	June 11	Thursday
Final day to Drop Courses without Receiving a Grade of “W”	June 11	Thursday
Withdrawal period begins	June 12	Friday
Deadline for Paying Tuition and Fees (including late fee)	June 16	Tuesday by 5:00 p.m.
Mid-term examination period	June 26-28	Monday -Wednesday
<b>July</b>		
Mid-term grade due by 9:00 a.m.	July 1	Monday

Independence Day (Observed)	July 3	Friday
Classes Resume	July 6	Monday
Last day to Withdraw from Courses or from the University	July 14	Tuesday
Last day of class	July 28	Tuesday
Concentrated Study Day	July 29	Wednesday
Final examinations period	July 30 – 31	Friday
<b>August</b>		
Final grades due	August 4	Tuesday (9:00 a.m.)
Summer 2019 Commencement	August 7	Friday

**2 SOUTHERN UNIVERSITY**

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SOUTHERN UNIVERSITY and A&M COLLEGE



# **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 33 areas as well as 23 masters, five doctoral.

An average of 6,500 students are enrolled each year at the Baton Rouge campus.

## **ORGANIZATION**

The Southern University System, is composed of campuses in Baton Rouge, New Orleans and 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 and A&M College at Baton Rouge is the Chancellor. Reporting directly to the Chancellor are the Executive Vice Chancellor, the Vice Chancellor for Finance and Administration, Vice Chancellor for Student Affairs and Enrollment Management, and the Vice Chancellor for Research and Strategic Initiatives.

The academic organization of the Baton Rouge campus consists of six degree-granting, academic colleges and schools--the College of Agriculture Family and Consumer Sciences, the College of Business, the Nelson Mandela College of Government and Social Sciences, College of Humanities and Interdisciplinary Studies, College of Nursing and Allied Health, and College of Sciences and Engineering. Other components of the academic structure of the Baton Rouge campus include the School of Graduate Studies, the Dolores Margaret Richard (D. M. R.) Spikes Honors College, and International and Continuing Education. Also included in the organization are the divisions of Military Science (Army ROTC) and Naval Science (Naval ROTC), which includes the Marine Corps.

## **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 metropolitan area has a population of more than 800,000 and serves as a cultural, political, educational, and industrial center for South Louisiana. The campus encompasses 512 acres, with approximately 60 acres for agricultural instruction, research and outreach.

## **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 and rural programs and makes available educational, cultural, and developmental resources to enhance the quality of life. Adhering to the spirit and 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 serve the community at large.

The University develops and maintains a safe physical environment that is 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, Baton Rouge, Louisiana, 70813, (225-771-4500) is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools, SACSCOC, (1866 Southern Lane, Decatur, Georgia, 30033-4097; Telephone Number: 404-679-4501 to offer bachelors, masters, doctoral and professional degrees.

The University's civil, electrical, and mechanical engineering programs are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 telephone: (410) 347-7700. The electronics engineering technology program is accredited by the Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 telephone:

(410) 347-7700. 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 the 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 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 the College of Engineering Building, P.B.S. Pinchback.

The Smith-Brown Memorial Union, a 66,200-square foot 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 houses the offices of the Southern University Board of Supervisors, the Southern University System officers, the President - 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 is a progressive, evolving resource and information center with over one million volumes, four floors and a seating capacity of 1,400. The Library subscribes to over 2,380 electronic journals and has an extensive documents and video collection. Special collections include the Camille Shade African American Collection, Archives, and Music Listening. The Library is also a member of LOUIS: The Louisiana Library Network which provides access to numerous research databases. These databases cover a range of academic disciplines and are available from the library’s website. More than 200 computers are available throughout the Library for users. Laptops, Kindles, iPads, and other mobile devices are available for students to checkout. 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 has successfully obtained 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. It 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. Some of the 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, BOOKS, GUIDES

The Library has journals and books online. The journals provide full-text as well as the feature to purchase articles. Online 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 and print copies are in the Library

## INDIVIDUAL/GROUP STUDY ROOMS

**STUDY ROOMS** – The Library offers both individual and group study rooms. Individual study rooms are equipped with a computer, desk and chairs. Group study rooms have large screen displays, computers, conference tables, web conferencing capabilities and white boards.

## 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 can access the system remotely via 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).

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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 served as Chancellor of the Southern University Law Center (2003-2015). John Pierre became Chancellor of the Southern University Law Center in March 2016.

Other System Presidents have been Dr. Joffre T. Whisenton, (1985-1988), Dr. Dolores R. Spikes (1988-1996), Dr. Leon Tarver II (1997-2005), Dr. Ralph Slaughter (2006-2009), Dr. Kassie Freeman (interim 2009). Dr. Ronald Mason Jr. became president July 2010. 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) and Dr. Kofi Lomotey (2009-2011). Dr. James Llorens served as Chancellor of the Baton Rouge campus (2011-2014). Flandus McClinton was named Acting Chancellor of Southern University Baton Rouge (2104-2015). Ray Belton became the new President and Chancellor of Southern University System and Baton Rouge Campus in June of 2015

### 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 Business**

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

#### **College of Agricultural, Family and Science**

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

#### **Nelson Mandela College of Government and Social Science**

Bachelor of Science in Psychology  
Bachelor of Science in Sociology  
Bachelor of Science in Social Work  
Bachelor of Arts in Political Science  
Bachelor of Science in Criminal Justice

## **College of Humanities and Interdisciplinary Studies**

Bachelor of Science in Interdisciplinary Studies  
Bachelor of Arts in Mass  
Communications  
Bachelor of Arts in English  
Bachelor of Arts in History  
Bachelor of Music

### **School of Education**

Bachelor of Science in Elementary  
Education Grades 1-5  
Bachelor of Science in Elementary  
Education and Special Education  
M/MOD, Grades 1-5  
Bachelor of Science in Middle School  
Education and Special Education  
M/MOD, Grades 4-8

## **College of Nursing and Allied Health**

Bachelor of Science in Nursing  
Bachelor of Science in Rehabilitation Services  
Bachelor of Science in Speech Pathology and Audiology  
Bachelor of Science in Therapeutic Recreation and Leisure  
Studies

## **College of Sciences and Engineering**

Bachelor of Science in Biology  
Bachelor of Science in Chemistry  
Bachelor of Science in Mathematics and Physics  
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  
Bachelor of Science in Computer Science—Scientific Option  
Bachelor of Science in Computer Science—Information Systems Option

### **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 these requirements. 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.







## University Admissions

Southern University operates on a semester plan and generally 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 an admissions policy whereby entering freshmen must achieve a composite score of 20 and a subscore of 18 in English or a 19 subscore in Mathematics on the ACT 18 in English or 19 in Math on the ACT (940 1020 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 (ACT Math and English sub-scores can be no lower than 16). Additionally, entering freshmen must have successfully completed four units of English (I, II, III, and IV), four units of mathematics (Algebra I, Algebra II, Geometry, Trigonometry, Calculus, or an approved advanced math substitute), four of social sciences, (American History, World History, Western Civilization, or World Geography), four 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, and one unit of art.

### ADMISSION STANDARDS

#### Freshman Admissions

Students who have earned diplomas from approved high schools in the United States should meet the following requirements for admission:

- High School units of 19 are as follows:

#### Subject:

#### Units:

**English** Required: Four units of English Composition and Literature – English I, II, III, and IV.....4

**Mathematics** Required: Algebra 1A and Algebra 1B, Geometry, Algebra II, Financial Math, Math Essentials, Advanced Pre-Calculus, Advanced Functions & Statistics, Pre-Calculus, Calculus, Probability and Statistics, Discrete Math, Approved Elective (including approved IBC related course)..... 4

**Natural Science** Required: Biology, Chemistry, two (2) units from: Physical Science, integrated Science, Physics I, Physics of Technology I, Aerospace Science, Biology II, Chemistry II, Earth Science, Environmental science, Physics II, Physics of Technology II, Agriscience II, Anatomy and Physiology ..... 4

**Social Sciences** Required: Civics, AP American Government plus Free enterprise (1/2) unit each), World History, world Geography, Western Civilization, AP European History, Law Studies, Psychology, Sociology, Civics (2nd Semester, ½ Unit), African American Studies, ..... 4

**Fine Arts Survey** 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

**Foreign Language/Speech** Required: Two (2) units from single language or 2 units of Speech ... 2

**TOTAL** ..... 19

**And** Minimum Overall High School GPA of 2.0

And Require of only one developmental courses by having a minimum ACT English Score of 18 or Math Score of 19 (SAT Verbal Writing and Language score of 450 25 and SAT Math Section Score of 460 500) (ACT Math and English sub scores can be no lower than 15).

**And** One of the following: core GPA of 2.0 or ACT Composite score of 20 (SAT Composite of 940).

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### 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 Writing and Language score of 25 or Math Section score of 500);
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 1020) AND
2. Minimum ACT English score of 18 or math score of 19 (SAT Writing and Language score of 25 or Math Section score of 500); AND
3. Minimum high school GPA of 2.0 on a 4.0 scale AND

#### Criteria 3:

1. Minimum composite ACT score of 23 (SAT score of 1130) AND
2. Minimum ACT English score of 18 or math score of 19 (SAT Writing and Language score of 25 or Math Section score of 500).

### *Overview of Three-Year Phased Increase in Admission Standards of the Delores Margaret Richard Spikes Honors College*

Students who complete a college preparatory curriculum from an accredited or state-approved high school with a minimum of 16 units, high school GPA 3.30 or better, and ACT score of 23 or above (SAT of 1160 or above) may apply for regular admission into the D. M. R. Spikes 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 (with 2 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.

Academic Term	Regents Core Units	Developmental Courses	Overall High School GPA	ACT	Core High School GPA	Admissions Exceptions
Fall 2010	17.5	0	2.5	20	N/A	10%

Fall 2011	17.5	0	2.5	21	N/A	9%
Fall 2012	19	0	2.5	22	N/A	8%

### **Admissions for Student Athletes**

Admissions requirements for freshmen and transfer student athletes differ from students who are not classified as athletes. Freshmen student athletes having met all other admission requirements must also meet the grade point average (G.P.A.) requirement of 2.3 or higher. Transfer student athletes must have a G.P.A. of 2.6 or higher. They must also meet all other admission requirements. This policy is effective the Fall 2011 semester.

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

Adult Students aged 21-24 are required to meet the minimum freshman admissions criteria.

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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 maybe 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

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### Admissions for First-Time Freshmen

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: March 31 for Fall Semester; November 1 for Spring Semester; and March 31 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 for whom payment is made. The University does not accept personal checks.

### ADMISSIONS FOR INTERNATIONAL STUDENTS

International students for whom English is a second language have two options to satisfy SUBR's English proficiency requirement. They may take the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS). The Southern University Center for International Affairs offers ESL classes on selected time options for persons needing English language assistance.

- A score of 500 on the TOEFL or a score of six on the IELTS
- 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 is 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.

## **SOUTHERN UNIVERSITY17**

### **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 notwithstanding. 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.

### **Louisiana Transfer Degree Guarantee**

Southern University and A&M College participates in the Louisiana Transfer Degree Guarantee (TDG) initiative. Students who transfer with a Louisiana Transfer Associate Degree will have completed all 30 credits of general education requirements as well as 21 credit hours or additional coursework, totaling 60 hours. The TDG promises smooth transfer from for students from any SACS accredited two year community college to a Louisiana four-year public university. Students who meet all admissions criteria including an AA/LT of AS/LT and have satisfactorily completed all course requirements including prerequisites earning a grade of "C" or better and are admitted to Southern University and A&M College will be admitted to the College or School of their major with Junior-level status upon admission to the University.

Every degree program has its own course requirements; therefore, it is imperative that students work with an advisor at their respective two-year schools to ensure that they are following the plan exactly as delineated. The requirements for majors found at SUBR may be found on its website: HYPERLINK "<http://www.subr.edu/>" \h www.subr.edu. Students may also refer to the HYPERLINK "<http://www.latransferdegree.org/>" \h www.latransferdegree.org website for more information.

\*Note: No developmental courses can be counted toward the required 60 hour course requirement. 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.*

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### **Transfer International Students Must Meet Transfer Admission Criteria**

- Official transcripts must be sent directly to the Registrar's Office from all colleges.
- Evidence of completing a recognized secondary program must be submitted
- A current notarized statement of financial support is required
- Language requirements must be met
- 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 minimum TOEFL score of 500 (paper) or 173 (computer) is required; or students may provide other documentation deemed acceptable by the university.

**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 21 and above and over are required to meet the minimum admissions criteria for transfer students.

\*\*Effective fall 2012, students in need of any developmental courses will not be eligible for admission to the university.

### **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 contact the Registrar's Office if you do not have a card)

### **Acceptance of Transfer Credit**

The maximum amount of transfer credit allowed 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.*

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## **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.

## **PROGRAM FOR PERSONS OVER 60**

Any person over the age of 60 years who registers for one or more courses of instruction at Southern University – Baton Rouge and who is a resident of the state shall be exempt from the payment of tuition ONLY for up to three credit hours.

## **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, correspondence courses, and extension

courses).

## **LOUISIANA RESIDENCE STATUS**

For purposes of assigning tuition and 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- 3546

## **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.

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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 person's right to pursue remedies in another forum outside of SUBR.

All ADA discrimination/504 complaints should be addressed to:

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.

Director of Disability Services  
P. O. Box 11298  
246 Augustus C. Blanks Hall  
Southern University - Baton Rouge  
Baton Rouge, Louisiana 70813  
Phone: (225) 771-3546 / Fax: (225) 771-3949

### ***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

### *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.

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### **SOUTHERN UNIVERSITY - BATON ROUGE OFFICE OF ACADEMIC AFFAIRS STUDENT ACADEMIC GRIEVANCE PROCEDURES**

#### **PURPOSE**

To ensure each student at Southern University understand their right to seek redress in academic decisions when they believe the decision is unfair or unfounded and that each student, faculty member and University leader fully understand the grievance procedure and responsibilities to provide prompt and equitable resolution to student academic grievances. Classroom related matters should be subjected to these procedures only when the grievance cannot be settled in the ordinary course of immediate post-class discussion.

#### **GENERAL POLICY**

To provide students with the procedure to seek redress for believed unfair academic decisions as it applies to the individual student in his/her capacity as a student. It is Southern University's basic philosophy that student grievances should be settled at the lowest level possible having the authority to act definitively as quickly as practical. The policy mandates that individuals follow the specific appeals procedures whenever possible.

#### **PROVISIONS OF THE ACADEMIC GRIEVANCE PROCESS**

1. All students have the right to address grievances without fear of coercion, harassment, intimidation or reprisal from the University or its employees; however, it should be understood that capricious charges made by a student against a University employee may make that student liable to charges under the Code of Student Conduct or to action through the courts.



2. Students will have the right to have an advisor. Advisors will be available through the office of student affairs.
3. Confidentiality shall be maintained, where applicable, in all academic grievance proceedings in accordance with the provisions of the Family Educational Rights and Privacy Act (FERPA).
4. The timeline indicated at each step shall be considered a maximum, and every effort will be made to expedite the process. The time limits specified shall apply to both the person filing the grievance and the faculty/administration but may be extended under certain extenuating circumstances.
5. The university official's subr.edu e-mail address is the only e-mail address that will be used for the grievance process.

#### ACADEMIC GRIEVANCE PROCEDURE

A special conference between the teacher and the student should be arranged under optimum conditions. If conditions don't allow for this to occur or the matter remains unresolved the student can submit a grievance as outlined below:

1. The student shall submit a grievance, in writing, to the teacher's department chair or director where the incident occurred. The completed form, with all supporting documents, shall be submitted within 15 working days subsequent to the occurrence of the incident precipitating the grievance. Grievances must be filed at the departmental and college level within the academic area where the incident occurred.
2. The department chair or director will acknowledge the receipt of the grievance, in writing, within three (3) working days of receiving the grievance. The written acknowledgement will be provided to the student in person, by certified mail, or by University e-mail.
3. The department chair or director will respond expeditiously, in writing, to the grievance submitted, but no later than 15 working days after receipt of the grievance. The department chair or director will appoint a committee to review and submit recommendations regarding the grievance. The department chair or director will review findings and make a ruling on the grievance. The response to the grievance will be provided to the student in person. The student, upon receipt, must state on the grievance form whether he/she is satisfied or unsatisfied with the ruling. If the student is satisfied the matter is closed but if the student is unsatisfied with the ruling the department chair or director will forward findings and recommendations to the Dean of the College.
4. The Dean will respond expeditiously, in writing, to the grievance submitted, but no later than 15 working days following receipt from department chair or director. The Dean may appoint a committee to review the department chair or director's ruling or review the findings independently. The Dean will provide ruling to the student in person, by certified mail, or by University e-mail. If the student is satisfied, the matter is closed, but if the student is unsatisfied with the ruling, the student can file an appeal to the Office of the Vice Chancellor of Academic Affairs.

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4. The student must file the appeal to the Office of the Vice Chancellor of Academic Affairs within three (3) working days of being notified of the Dean's ruling. The Office of the Vice Chancellor of Academic Affairs will acknowledge the receipt of the appeal, in writing, within three (3) working days of receiving the appeal. The written acknowledgement will be provided to the student in person, by certified mail, or by University e-mail.

5. The Office of the Vice Chancellor of academic affairs will respond expeditiously, in writing, to the appeal submitted, but no later than 7 working days after receipt of the appeal. The Vice Chancellor may appoint a committee to review the Dean's ruling. The Vice Chancellor will review the findings and make a ruling on the appeal. The Vice Chancellor of Academic Affairs will provide ruling on the appeal to the student in person, by certified mail, or by University e-mail. If the student is satisfied, the matter is closed, but if the student is unsatisfied with the ruling, the student can file an appeal to the office of the Chancellor.

6. The student must file the appeal to the Office of the Chancellor within three (3) working days of being notified of the ruling from the Vice Chancellor of Academic Affairs. The office of the Chancellor will acknowledge the receipt of the appeal, in writing, within three (3) working days of receiving the appeal. The written acknowledgement will be provided to the student in person, by certified mail, or by University e-mail.

7. The office of the Chancellor will respond expeditiously, in writing, to the appeal submitted, but no later than 7 working days after receipt of the appeal. The Chancellor will review the Vice Chancellor of Academic Affairs' ruling and make a final ruling on the appeal. The Chancellor will provide ruling to the student in person, by certified mail, or by University e-mail. The decision of the Chancellor shall be final.

#### ADDITIONAL INFORMATION

1. Grievance forms are available in each academic department, through a college dean, through the Office of Academic Affairs, or on the SUBR web site ([www.subr.edu](http://www.subr.edu)) under the link for Academic Affairs.

2. At every level of administrative review, a grievance must show date of submission, date received by the reviewing level, date of response by the reviewing level, and the signatures of the person filing the grievance and the responding party.

3. If certified mail is used during any step in the grievance process, the post office receipt must be maintained on file as proof of timeline adherence.

4. It is suggested that these procedures be used sparingly. When it is necessary to file a grievance, all the skills in human relations should be mustered to effect an equitable and lasting solution at a level as close to the originating source as possible.

5. These operational procedures are designed to bring greater order and effectiveness to the teaching/ learning process.

They should be recognized as guides to the enhancement of excellence in the academic program and are expected to be followed whenever a grievance exists.

6. All final rulings, regardless of level of resolution, will be kept on file in the Office of the Vice Chancellor for Academic Affairs.

#### ACADEMIC DISHONESTY

Academic dishonesty is an offense against the University. A student who has committed an act of academic dishonesty has failed to meet a basic requirement of satisfactory academic performance. Thus, academic dishonesty is not only a basis for disciplinary action, but it is also relevant to the evaluation of students' performance levels. This form is NOT to be used for academic dishonesty. Academic dishonesty cases are handled in accordance with the Southern University and A&M College Code of Student Conduct.

#### 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 anyone other than the evaluated employee.

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

#### CREDIT BY EXAMINATION (MAY NEED TO MOVE TO DIFFERENT LOCATION)

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	50
College Algebra	MATH 135	3	50
Computers & Data Processing	COMPS 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	50
Money & Banking	ECON 340	3	50
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 prior approval from the academic dean, the registrar, and the Office of Academic Affairs.

## **PROCESS FOR COMMUNICATING CURRICULUM CHANGES**

The University reserves the right to add or delete 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 exceptions that are identified in the University catalog.

### **Documenting and Recording Changes of Degree**

The dean of the college with the approval of the program chair and faculty is responsible for contacting candidates about changes in the major curriculum.

#### **The athletics department has its own policy for documenting and recording changes of degree:**

If a student-athlete determines that their current major no longer fits their intended career path, they are allowed the option to change their chosen field of study via a change of major form. Once the decision is made but before the formal change has been filed, the student athlete should;

(1) Visit with the Academic Counselor for the student-athletes sport;

(2) Once confirmed, the counselor forwards transcript information along with the current curriculum sheet to the departmental certifying official to ensure the student will be eligible in the new major.

#### ***If the student-athlete is ineligible in the new major:***

(1) The student-athlete's request will be initially denied by academic services and the student-athlete's Head Coach (Position coach if football) will be notified of the request and reason for denial.

#### ***If the student-athlete is eligible in the new major:***

(1) The Academic Counselor reviews the documentation to ensure that the student-athlete remains eligible in the new major;

(2) Once confirmed, the request is then forwarded to the Director for Institutional Compliance for re-review;

(3) If the Director for Institutional Compliance confirms the accuracy of review, approval is granted via signature on the official Southern University change of major document and immediately submitted to the Registrar's Office to record the change;

(4) Once the official change has been recorded, one copy of the signed document is provided to the student-athlete for their records, the other to remain in the student-athletes official athletics file.

## Student Financial Aid

### SATISFACTORY ACADEMIC PROGRESS (EFFECTIVE FALL 2011)

#### 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 both qualitative and quantitative measures. The qualitative measure (Grade Point Average-GPA) is very similar to the Academic Progress standard applied to all SU students. The quantitative measure, referred to as the student's "Pace" (number of credit hours successfully completed and the maximum timeframe) 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. The University has developed this policy to provide a framework for monitoring and determining a student's Satisfactory Academic Progress in accordance with Federal and Institutional requirements. This policy applies to all new, transfer, re-entry, re-admit with transfer work, and continuing students at SUBR.

#### 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 rate "pace" and cumulative GPA annually and notifying individual students when progress is not met and/or when they have met or exceeded the maximum timeframe allowed.

#### Authority

**The policy contained herein is the result of the federal revision of the regulations governing Satisfactory Academic Progress (SAP), October 29, 2010 to be effective July 1, 2011 and beyond or until further amended. The applicable regulations are in 34 CFR 668.16(e), 668.32(f) and 668.34. This policy will replace all previous SAP policies established by the University.**

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

All Federal Title IV programs: Pell Grant, Academic Competitiveness Grant (ACG), National "SMART" Grant, Federal Supplemental Educational Opportunity Grant (SEOG), Federal Teacher Education Assistance for College and Higher Education (TEACH) Grant, William D. Ford Federal Direct Loan programs (Subsidized, Unsubsidized, PLUS, and Graduate PLUS), and Federal College Work Study Program, as well as other State and Institutional Programs for which SAP compliance is required are governed by this policy, as applicable.

#### Satisfactory Academic 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 and A&M College (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. Complete their degree or certificate within the maximum allowable timeframe;
3. Complete and earn credit for a reasonable number of credit hours (at least 67% of cumulative credit hours attempted) towards a degree or certificate, measured incrementally; and complete courses at an overall “pace” which will, once again ensure graduation within the maximum allowable timeframe, measured in total cumulative hours attempted. In determining the 67% earned/pursued ratio, hours will be rounded up to the nearest whole number.

Financial aid recipients who do not meet these standards will lose their financial aid eligibility. Also and unless otherwise stated, a student’s entire 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 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: Associate Degree</b>			
0 - 95 credit hours	67%	2.00 or greater	0.00 - 1.99
96+Ineligible for Financial Aid			
<b>Bachelor’s Degree</b>			
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			
<b>Teacher’s Certification</b>			
0 - 45 credit hours	67%	2.50 or greater	0.00 - 2.49
46+Ineligible for Financial Aid			
<b>Graduates:</b>			
Master’s Degree			
0 - 58 credit hours	67%	3.00 or greater	0.00 - 2.99
59+Ineligible for Financial Aid			



<b>Doctoral Degree</b>			
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.**



## *Factors Impacting Satisfactory Academic Progress*

### **Grades, Earned Hours, and Attempted Hours**

Grades, Earned Hours and Attempted Hours include all grades and hours appearing on the transcript, including those with “W”, “P”, “S”, “U”, “NC”, “FN”, and “I” grades. Remedial, repeated, transfer, suspended, and academic clemency hours are also counted as pursued hours, even for those semesters in which the student did not receive aid. Transfer credits earned at other institutions which are not applicable to an academic program at SUBR, will not be included in the assessment of SAP.

### **Repeated Courses**

In the event that a course is repeated, the grade considered for the credit and GPA calculations will be the higher of the two grades earned. Each attempt will be used in evaluating the course completion ratio and cumulative number of attempted hours.

### **Minimum Requirements per Academic Level**

**Associate Degree Students:** 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.

- **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.
- **Graduate/Doctoral Students:** Students who have been admitted to and are enrolled in an eligible Graduate or Doctoral program 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 58/60 attempted hours, respectively.
- **Additional Degrees:** Students seeking additional degrees beyond the first undergraduate or graduate degree are limited as follows:
  - Bachelors..... 45 credit hours beyond prior degree**
  - Masters..... 58 credit hours beyond prior degree**
  - Teacher Certification ..... 45 credit hours beyond prior degree**

- **Second Baccalaureate Students:** Students seeking a second baccalaureate degree in an eligible curriculum may receive financial aid for an additional 45 attempted hours and must maintain a 2.0 GPA for hours taken toward the second degree. For example, if a student completed the first undergraduate degree with 200 attempted credit hours, then he or she will only be eligible to receive financial aid for an additional 45 credit hours toward the second Baccalaureate degree.
- **Second Master’s Degree Students:** Students seeking a second master’s degree in an eligible curriculum may receive financial aid for an additional 58 attempted hours and must maintain a 3.0 GPA for hours taken toward the second degree. For example, if a student completed the first Master’s degree with 58 attempted credit hours, then he or she will only be eligible to receive financial aid for an additional 58 credit hours toward the second Master’s Degree.
- **Teacher’s Certification Students:** Students seeking Teacher’s Certification may receive financial aid for 45 attempted hours and must maintain a 2.5 GPA for hours taken toward the Certificate program.
- **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.

## **Minimum Cumulative Credit Hour Completion**

Financial aid recipients must satisfactorily complete at least 67% of their 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.

## **Student Eligibility Considerations**

*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 half-time hours 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 4 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 the GPA in order to be admitted, he/she would not qualify for loans under this exception.

Graduate students must be enrolled in graduate level courses that are applicable toward their program. Coursework taken at the undergraduate level will not be courses counted toward the half-time status required for federal Financial Aid eligibility (Student loans, Work-Study, TEACH Grants). In order to receive loans at the Graduate level, students must be enrolled at least half-time (in accordance with Title IV guidelines) in graduate level courses that are applicable toward their degree.

## **Returning and Transfer Students**

Returning and transfer students must be in good academic standing and must have earned 67% of all hours attempted and meet the GPA requirement associated with their grade/career level to be eligible to receive financial aid. Academic progress will be monitored using the **Minimum Cumulative Standards** chart previously outlined in this policy. **Official transcripts for all schools** attended must be received and processed by the Admissions office before a SAP evaluation can be completed on a student who is transferring or returning with additional credit hours. Students who do not meet the requirements upon transferring or returning to SUBR **will not** qualify for Federal Student Aid. Transfer hours applicable towards a program of study at SUBR and in accordance with the university's Transfer Policy will be considered for purposes of this policy regardless of whether the student received financial aid at the time the credit hours were completed.

## **Evaluation Intervals and Notification of Eligibility**

Effective July 1, 2011, Satisfactory Academic Progress (SAP) shall be monitored annually at the conclusion of the Spring term for the following Summer/Fall/Spring terms 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. Students enrolling in the Fall 2011 term will have their SAP status evaluated at the end of the Spring 2012 term (annually) under the New SAP Policy, effective Fall 2011. Students who do not meet one or more of the standards for Satisfactory Academic Progress at the end of the evaluation period will no longer be eligible to receive assistance under the Title IV programs unless the student has appealed, successfully and is placed on financial aid probation. Not attending one or more semesters will not affect or change a student's SAP status.

NOTE: Students enrolled for the Summer 2011 Crossover term will have their SAP evaluated in accordance with the SAP policy used for the 2010-11 Award Year.

### **Financial Aid Probationary Period**

At the end of one payment period on “Probation,” the student must meet the minimum SAP standards on their own in order to continue to receive financial aid or meet the requirements of his/her Academic Plan (if applicable) to qualify for further funds. While a student is on “Probation,” the student may be required to fulfill specific terms and conditions under the “Academic Plan” developed through the Center for Student Success and enforced through the Center for Teaching and Learning (CTLE), such as taking a reduced course load, enrolling in specific courses, or meeting a specified GPA and earned/attempted hour ratio at the end of each term. If a student placed on an Academic Plan fails to meet the plan’s requirements at the end of each term on probation, the student will lose his/her eligibility for financial aid and will be required to submit a Financial Aid Appeal for reinstatement consideration for the next enrolled semester/term.

## **Notification of Financial Aid Termination**

The Office of Student Financial Aid will send a Satisfactory Academic Progress Notification to any student who is no longer eligible for financial aid, due to the student's 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 his/her progress frequently.

## **Appeal Procedures**

Students who have been denied financial aid based upon the provisions outlined in this policy have the right to submit an appeal to explain and document their mitigating circumstances. All appeals must be accompanied by supporting documentation. An appeal will be denied if sufficient documentation is not submitted with the appeal. Appeals must explain why the student failed to make satisfactory progress and what has changed in his/her situation that will allow the student to meet the requirements at the next evaluation. Appeal forms are available online at [www.subr.edu](http://www.subr.edu) or in the Financial Aid Office or the Center for Student Success and Teaching and Learning. Students may not submit an appeal after the published deadline date has passed for the semester. Appeals are approved for current or 5 subsequent semesters only; appeals cannot be submitted for prior semesters. **Students are limited to a maximum of four (4) financial aid appeals per degree attempt.** Appeals Committee members are anonymous. Questions regarding the appeals process should be directed to the Appeal Committee via email at [afappeals@subr.edu](mailto:afappeals@subr.edu).

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.

## **Mitigating Circumstances**

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

All appeals must be in writing and submitted within the timelines established by the University's Appeals Committee. All documents and the appeal application must be mailed together via certified mail with return receipt requested (unless otherwise indicated). Faxes, late, or separated documents may not be accepted. Decisions concerning SAP appeals are voted on by a committee. **The decision of the committee is final and may not be overturned.** Generally, the committee will notify students of their decision by email within 20 business days of the date their 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, by appealing their satisfactory academic progress status and being placed on Financial Aid Probation, or after being placed on Probation, they continue to meet the requirements of their Academic Plan. If the student is required to appeal, reinstatement of Financial Aid will be based on the strength of the appeal statement, documentation received, and the academic record. Filing an appeal **does not** guarantee Financial Aid reinstatement.

## **IMPORTANT REMINDERS:**

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 this policy.
- SAP is monitored annually — at the conclusion of the Spring semester for the following Summer/Fall/Spring terms. At that time, a formal review will be made to ensure compliance with the grade point average, maximum time limit, and minimum earned hour requirements of this policy. If placed on an Academic Plan as a result of an appeal approval, a review will also be

performed to determine if the requirements of the plan have been met.

- First-time aid recipients who have previously attended SU must also be in compliance with the policy regardless to whether aid was received during periods of prior attendance.
- Students who fail to meet the Satisfactory Academic Progress standards will be notified by letter or electronic means 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 will be rescinded and the student will be billed for all funds disbursed.

### **Promulgation**

This policy will be included in the 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 periods after July 1, 2011 unless otherwise amended. Initial SAP evaluation under this policy will occur at the end of the Spring 2012 term.

### ***Definitions***

1. **Academic Clemency** – Academic Clemency provides an opportunity for persons to apply for a new undergraduate academic beginning at SUBR by disregarding their prior academic record. For Federal Student Aid purposes, all attempted hours will be included in determining a student's financial aid eligibility, including those disregarded on the basis of Academic Clemency. Coursework included in Academic Clemency DO NOT count toward earned hours. This means that the completion rate of a student granted academic clemency may be adversely affected. Questions regarding Academic Clemency should be addressed to the Registrar's Office at (225) 771-5050.
2. **Academic Suspension** - Students are ineligible for financial aid while suspended. An explanation of cumulative grade point averages and their effect on enrollment is found in the Southern University and A&M College Catalog. Contact the Registrar's Office at (225) 771- 5050 for further information.
3. **Appeal** – A process by which a student who is not meeting SAP standards petitions the school for reconsideration of his eligibility for financial aid.
4. **Attempted Course** - A course which remains on the student's record after the first fourteen days of the term.
5. **Completed Course/Earned Credit** - A course in which a grade of A, B, C, D, or P was received. (Note: Withdrawal (W), blank grades, incomplete grades (I), audits (AU), and failures (F) and (FN) are not considered "earned credit" for meeting progress requirements).
6. **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 the Satisfactory Academic Progress and/ or Academic Plan requirements or in order to continue receiving

financial aid.

7. Financial Aid Termination/Suspension - The point at which a student is no longer eligible to receive financial aid as defined in this policy.
8. Incomplete - A grade of "I" received for an attempted course; no credit will be applied until the course is completed. However, the hours will be counted in determining a student's "Pace" toward degree completion.
9. 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 the normal program's length. This policy sets specific timeframes for both undergraduate and graduate programs of study.
10. Qualitative Measure - 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).
  11. Quantitative Measure – Maximum timeframe the student has to complete their program of study and a minimum number of credits the student must satisfactorily complete at each increment (Pace).
12. Satisfactory Academic Progress (SAP) – Maintaining the required cumulative GPA and completion of courses at a rate that meets the standards defined in this policy.
13. Transfer Credit - Course accepted for credit at SU from another institution. Questions regarding Transfer Credit should be addressed to the Admissions Office at (225) 771-2430.





## **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 \$100. 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**

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.

#### **Inter-institutional 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.

However, students who wish to participate in the inter-institutional 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 maximum for freshmen. 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.

Students are permitted to register for no more than 12 semester hours 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 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



Graduate School, the student may have counted toward a graduate degree a maximum of six semester hours of graduate credits accumulated as an under-graduate. 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.
- Financial Aid is based on student attendance during the first 14 days of class. Students who do not report to class during this attendance period will be marked as a "No Show" and their financial aid may be impacted. Please note that students who do not complete full semester or summer term attendance may be required to repay financial aid funds received.

### **Attendance Management Policy**

All faculty members are required to verify student attendance using codes designated for this purpose. The attendance codes are posted electronically during the first 14 class days of each semester for all students in all courses taught. Two codes are used: An "SH" indicates that the student has attended class ("SHow"). An "NS" is administered for the students who did not attend a class during the same 14-day period ("No Show"). Each faculty member reports student attendance on the University's grade reporting system.

Student attendance continues to be monitored after the census date (14th class day). Students who fail to complete 60% of the required attendance time for any course receive an "FN" code. This equates to a failing grade for students who do not meet the federal student aid attendance requirement. In order to ensure that faculty members are administering the "FN" code, as prescribed, the University's internal auditor reviews a sampling of faculty roll books annually. The review of student attendance establishes whether the failing grade has been appropriately administered.

### **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 and if the student earns a 2.0 grade point average for each semester, or summer term during the period of probation. Failure to earn a cumulative grade point average of 1.51 a semester, 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 summer term without appeal. If the student raises his or her cumulative grade point average to 1.51 or above by 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 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 from the University, permanently.

##### ***Appeal Suspension***

- Students with three or fewer suspensions may appeal to the University Appeals Committee. Documentation must be provided for extenuating circumstances. Extenuating circumstances are primarily serious illness/injury, death in the immediate family, natural disaster or

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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 attention of Academic Appeals, Stewart Hall, postmarked by the date indicated. All appeals must be mailed by certified mail with a receipt.
- 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. Approvals may include stipulations that students must follow. Approvals may include stipulations which students must follow.

## **WITHDRAWAL POLICY**

Southern University and A&M College permits students to withdraw from a maximum of seven courses during the completion of a bachelor's degree. However, a college or school may specify a number less than seven. Please note the following stipulations.

If the number of credit hours completed is between:

- 0-45, a student may accumulate three withdrawals
- 46-90, a student may accumulate two withdrawals
- 91 and above, a student may withdraw from two courses.

In order to withdraw from a course/s, a student who is classified as a freshman must meet with the instructor of record as well as his or her faculty advisor who will withdraw a student from a course or courses. An upperclassman must meet with his/her instructor of record and advisor in order to secure signatures from both, before submitting the withdrawal form to the Office of the Registrar.

If there is a catastrophic occurrence, which results in a student having to withdraw from a course after the maximum allowed number of withdrawals is reached, an appeal may be presented in writing to the dean of the college or school of the student's major or intended major. The dean will approve or disapprove the appeal. There is no appeal process above the level of the dean.

Withdrawals accumulated at other institutions, prior to enrollment at Southern University will not be considered as part of the seven allowed withdrawals under this policy. Further, withdrawals generated due to the withdrawal from the university do not count against the maximum allowed withdrawals from courses.

## **ADMINISTRATIVE WITHDRAWAL**

In the event that a student must 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 Office of Academic Affairs will make the decision regarding academic clemency.
- 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 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 University regulations. All full- or part-time students who have earned less than 36 credit hours are assigned academic advisors through the Center for Undergraduate Student Achievement or by the chair of their department when they are transferred to a senior college once they have earned 37 credit hours or more. 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. Students who have earned less than 36 credit hours are not allowed to register themselves for courses.

### **CENTER FOR UNDERGRADUATE STUDENT ACHIEVEMENT (CUSA)**

Undergraduate Advising Center (for Students who have earned less than 36 Hours) Location: 1075 and 1080 Harris Harris Hall, Suite C in Harris Annex and 155 Stewart Hall

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Office Hours: 8 a.m. to 5 p.m., Monday through Friday  
Telephone: (225) 771-4040  
Email: [ctle@subr.edu](mailto:ctle@subr.edu)

### **Executive Directive Director:**

Dr. Sharae Celestine

### **Advising Services Director:**

Crystal D. Taylor

### **Support Services Director:**

**Latrina Collins**

First Year Experience Coordinator:

Dr. Sharae Celestine

## **Academic Advisors by College**

Agriculture and Family & Consumer Sciences: Gloria Pendergrass

Humanities and Interdisciplinary Studies: Crystal Taylor

Business: Machelles Goree

College of Sciences and Engineering: Veronica Richardson (Civil and Environmental Engineering and Mechanical Engineering) and

Viola Cyriaque (Electrical Engineering and Computer Sciences) and

Gloria Pendergrass (Biology, Chemistry, Math and Physics)

Nursing and Allied Health: Marvel Hughes, Nursing A-K and Speech

Zackeus Johnson Nursing L-Z, Therapeutic Recreation and Leisure Studies and Rehabilitation Counseling

Government and Social Sciences: Jovan Thomas (Political

Science, History and Criminal Justice) and

Jasmine Banks (Psychology, Social Work, & Sociology)

The purpose of the Center for Undergraduate Student Achievement is to create and operate a more centralized and comprehensive community of student support programs. CUSA utilizes theoretical, practical and data driven approaches to aide in the campus wide initiative of increasing retention and degree completion rates of students. The programs, working in tandem, are designed to collectively advise, support and engage students who have earned less than 36 credit hours, have petitioned for and been granted academic and/or financial appeals, and/or want to develop or enhance leadership and mentorship skills through carefully designed, reflective programming. Academic and social excellence is supported through advising, first year experience support programs, and support services.

## **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.
- 

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- 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, preregistration 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.

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## **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 five days after requests are received. At the end of the semester, however, approximately 10 days are 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.

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### **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, unless a college or school has a lower maximum, 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,” “F,” 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 GPA’s 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 averages. 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.

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## **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 weeks 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.

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### **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 120 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; passage of the Departmental Comprehensive Examination;
8. passage of the Writing Proficiency Test;
9. meet the University’s residence requirement; and
10. 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 participate in the University’s commencement exercises are only those students who have successfully completed all degree requirements. Students must have satisfied all course credit requirements including those awarded by other institutions. Students who cross-register must have completed the course(s) and have the earned credit(s) officially verified by the other college/ university prior to the date of Southern University’s commencement exercises. Further, students must have successfully completed all comprehensive department examinations, capstone projects/ examinations and any other required examinations by their respective department(s) in order to participate in University commencement exercises. Students who fail to meet all degree requirements will not be allowed to participate in the commencement exercises.

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 the summer term 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 or 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 satisfactorily completed as part of the English 111 course.

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.

## **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 reentry 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.

Students who have not yet passed English 111 and have not passed the Writing Proficiency Examination must take them together (Approved by the Academic Council, Spring 2010). The

Writing Proficiency Examination is given as a part of the English 111 course.

### ***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.
- An official letter of certification and explanation from the Registrar, Chief Academic Officer or other appropriate administrator will be required 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.

### **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 at Southern University. The effective date of this policy is Spring 2006.





## Southern University General Education Program of Excellence (GEPE)

At the heart of the General Education Program of Excellence (GEPE) at Southern University and A & M College 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 are 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 the enhancement of students’ intellectual growth to develop strong, competent graduates. 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 60 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 standards with associated learning outcomes 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
<b>English Composition</b>	<b>6</b>
<b>Mathematics</b>	<b>6</b>
<b>Natural Sciences</b>	<b>9</b>
<i>(Two courses in a biological or physical science sequence with a lab +1 course in the other area) [Six hours shall be earned in a single life or physical science; the remaining three hours must be earned in a natural science area other than that previously selected (both life and physical sciences must be taken to fulfill this requirement).]</i>	
<b>Humanities</b>	<b>9</b>
<i>(Three courses, including one in Literature, Beginning or Intermediate Courses in any Language)</i>	
<i>Subjects include:</i>	
Argumentation and Debate	Old Testament
Cultural History (any survey)	Performing Literature
Fundamentals of Speech	Philosophy (any survey)
History (any survey)	Public Speaking
Interpersonal Communication	Religious Studies (any survey)
Language	Literature (any survey)
Rome	Mass Media
Shakespeare	New Testament
Women’s and Gender Studies	

## Hours

### Social Sciences

6

(Two courses, including one at sophomore level)

*Subjects include:*

American Government  
 Archeology  
 Comparative Politics  
 Contemporary Global Issues  
 Cultural and Social Anthropology  
 Economic Principles  
 Entertainment and Media  
 Fundamental Issues of Politics  
 Gender, Race, and Nation  
 Geography  
 Human Societies

International Politics  
 Macroeconomics  
 Microeconomics  
 Physical Anthropology  
 Political Theory  
 Psychology  
 Sociology  
 State and Local Government  
 World Archeology  
 World Ethnography

### Fine Arts

3

*Subjects include:*

Architecture  
 Cinema and Film  
 Dance Appreciation  
 Fine Arts  
 History of Art (any survey)  
 History of Interior Design  
 History of Musical Forms  
 folk)

Landscape Architecture  
 Music Appreciation  
 Music Fundamentals and Theory  
 Music History Survey (any survey)  
 Philosophy of Art  
 Structure of Art  
 Theater and Dramatic Arts (e.g., jazz, classical,

<b>Total</b>	<b>39 hours</b>
Foundation	21 hours
(Determined by intended discipline of study)	
<b>TOTAL</b>	<b>60 hours</b>

**The GEPE learning outcomes shown in Table 1 are based on the knowledge base that each Southern University-educated student will develop prior to graduation**

**Table 1. General Education Program of Excellence (GEPE) Learning Outcomes (ILOs)**

<b>LO 1:</b>	<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.
<b>LO 2:</b>	<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.
<b>LO 3:</b>	<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.
<b>LO 4:</b>	<b>Mathematical and Science Reasoning</b>	Graduates will apply quantitative and qualitative approaches to mathematical and/or scientific concepts.
<b>LO 5:</b>	<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: Ethical Behavior and Values**

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: Information Technology** Graduates will demonstrate information technology skills

**Literacy**

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 and sophomore years. The core courses represent 39 credits. Students can complete the foundation courses, shown in table 3, during their freshman, sophomore, or junior years. The foundation courses represent 21 credits. Students must complete 60 credits of general education requirements contained within the core and foundation courses prior to graduation from Southern University and A & M College. The capstone, which requires 3-12 credits to complete, is a course where general education and the major field of study converge.

**Table 2. Freshman Year First Semester**

	<b>Credit</b>
Freshman Seminar	0
Freshman Composition	3
Mathematics - College Math (MATH 130) OR Pre-Calculus I (MATH 135) OR Calculus 1 (MATH 264)	3
Humanities	3
Natural Science Students must choose a six hour sequence in either the biological or physical sciences and a three hour course in an area other than that selected for the sequence. One course must be taken with a lab.	3
Fine Art	3
<b>TOTALS</b>	<b>15</b>

**Second Semester**

	<b>Credit</b>
Freshman Seminar (FRMN 111)	0
Freshman Composition (ENGL 111)	3
Mathematics - College Math (MATH 131) OR Pre-Calculus I (MATH 140) OR Calculus 1 (MATH 265)	3
Humanities	3
Natural Science Students must choose a six hour sequence in either the biological or physical sciences and a three hour course in an area other than that selected for the sequence. One course must be taken with a lab.	3
Social Science	3
<b>TOTALS</b>	<b>15</b>

**Table 3. Sophomore Year First Semester**

	<b>Credit</b>
Literature	3
Natural Science	3

Students must choose a six hour sequence in either the biological or physical sciences and a three hour course in an area other than that selected for the sequence. One course must be taken with a lab.

Social Science	3
Foundation Courses (Based on academic track)	6
<b>TOTALS</b>	<b>15</b>
<b>First Semester</b>	<b>Credit</b>
Foundation Courses	15
<b>TOTALS</b>	<b>15</b>

### **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, social sciences 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 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; SOCL 434, Minority Group Relations; SOCL 435, Sociology of Black Americans; SOCL 436, African American Sociological Thought; SOCL 442, Sociology of African Thought; SOCW 250, African-Americans in U.S. Policy History; and SPTH 399, African-American Arts Seminar POLS 402, Black Politics and POLS 482 Black Political Thought.

### **SERVICE LEARNING**

Students who were first-time freshmen at any post-secondary institution on or after August 1, 1993, are required to complete the Service Learning course including a minimum of 60 clock hours of service 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. 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: SVLR100, 200 and 300, Service Learning (credit, 1 hour which equals 20 hours); SVLR400, Service Learning (credit, 3 hours which equals 60 hours), SVLR000, Service Learning (non-credit, 0 hours); and International Service Learning 405 (credit, 3-6 hours). SVLR courses 100, 200 and 300 may not be taken in the same semester. They must be taken one course at a time per semester.

## **Student Fees and Expenses**

### **REGULAR SESSION**

Tuition and fees are approved by the Southern University Board of Supervisors each semester. Please check the website for the most current tuition and fees ([www.subr.edu](http://www.subr.edu)).

### **OUT-OF-STATE FEE WAIVER POLICY**

SUBR endeavors to increase its national and international footprint. As the flagship campus of the Southern University system, SUBR intends to position itself as a global university. To that end, SUBR's student population must reflect the global diversity of our international community. The University's mission strongly supports its continuing efforts of providing a high quality global educational experience to its students and graduating competent, informed and productive citizens. Accordingly, every appropriate strategy must be implemented to assist in achieving this mission. In an effort to positively impact SUBR's recruitment, retention and graduation rates and to significantly enhance and expand its student diversity, the University offers the following comprehensive out-of-state fee waiver policy.

A full out-of-state fee waiver will be granted to any qualified incoming freshman who graduated from a high school from any state in the USA and who meets the following criteria:

1. Minimum composite ACT score of 20 (SAT two-part composite score of 940); AND
2. Minimum ACT English score of 18 and math score of 19 (SAT verbal score of 450 AND SAT math score of 460); AND
3. Minimum high school GPA of 2.7 on a scale 4.0 scale.

Any student who wishes to continue receiving the out-of-state waiver beyond the initial academic year in which the waiver is awarded must remain a full-time student with a minimum of 12 hours (non-developmental) course load per semester and maintain a cumulative minimum 2.5 GPA.

Continuing out-of-state students who have already been granted a waiver (prior to Fall 2015) will be governed by the criteria/requirements that were in effect at the time that the waiver was initially granted.

This SUBR Out-of-State Fee Waiver Policy is a comprehensive policy that covers all qualified first-time freshmen, effective Fall 2015.

### **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.

### **REGISTRATION REFUND POLICY**

#### **REFUNDS TO STUDENTS RESIGNING FROM THE UNIVERSITY**

The General Fee, which includes student-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
- 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

### 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.

## 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)

Animal Science/Pre-Veterinary  
Medicine Club

Association for Budgeting &  
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

International Student Association

Minorities in Agriculture Natural

Resources and Related Sciences

National Organization of Black

Chemists

Kappa Delta Kappa (Education)

Kappa Kappa Psi (Band) Kappa

Phi Kappa (Education) Lambda

Iota Tau (Literature) Mu Phi

Epsilon (Music)

Phi Alpha (Social Work)

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

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

Lambda Players

Models United Nations

MWEWE Eusi

Philosophical Society

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.

SU 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 Fideli







**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*****STUDENT***

Withdraws from the University by going to the Registrar’s Office and completing required forms.

***RESIDENTIAL HOUSING***

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.

***REGISTRAR’S OFFICE***

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.

***RESIDENTIAL HOUSING***

Computes refund due to student for room and board after verification of documents. Transmits all documents to the Comptroller’s Office.

***BURSAR’S OFFICE***

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.

***FINANCIAL AID OFFICE***

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.

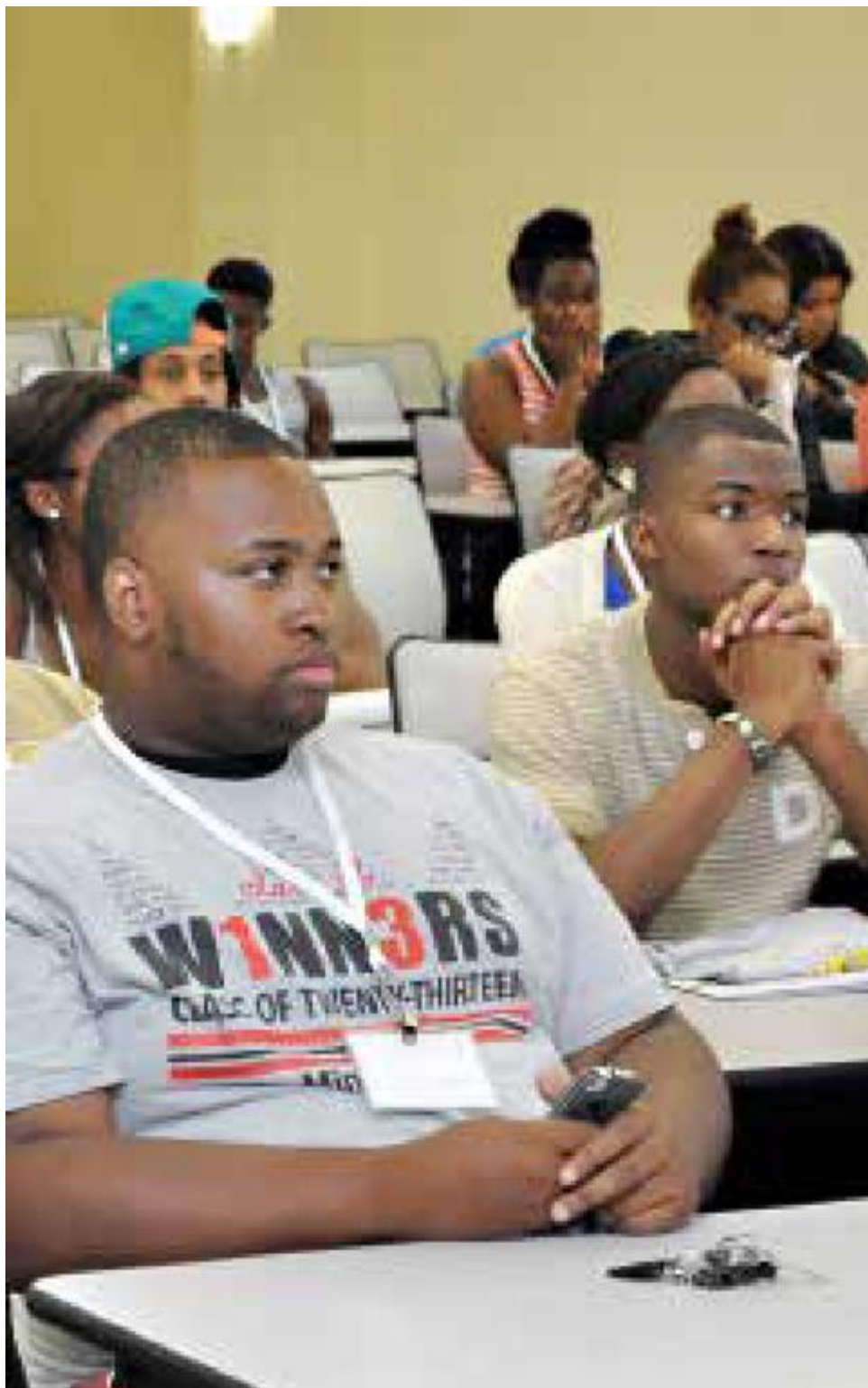
***BURSAR'S OFFICE***

Receives documents from the Financial Aid Office and proceeds to execute the documents for refund through the Comptroller's Office.

***COMPTROLLER'S OFFICE***

Processes vouchers and releases check.







## **Student Affairs and Enrollment Management**

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

The major areas that provide student services in a number of student-related fields, include Career Services, University Counseling Center which includes Disabled Student Services, Center for Student Success, Center for Teaching and Learning (CTLE), Band, Financial Aid, Admission and Recruitment, 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 and Enrollment Management.

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 illnesses (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

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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 upper class 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, ballroom, 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.

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### **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.

## 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 – Suites 1062 & 1064

**Office Hours:** 8 a.m. to 5 p.m., Monday through Friday  
**Telephone:** (225) 771-2231 or 771-5833

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)), a student magazine (EGO), and a yearbook (The Jaguar).

The DIGEST, a student newspaper published weekly with an interactive on-line version at <http://www.southerndigest.com>, EGO magazine published several times per year, and The Jaguar, a student yearbook published annually are all 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 or views. The student publications shall serve both as forums for students' expressions and as laboratories for training in journalism, online 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, <http://www.southerndigest.com>, EGO magazine, 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, 1987, 1996, and 2014. The advisers of these publications subscribe to the College Media Association's Code of Ethical Behavior.

## **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

## **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 on the Baton Rouge Campus. 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 who report to the Executive Vice Chancellor.

In the existing academic structure, Southern University and A&M College serves students through 6 colleges and schools and 19 departments. The University offers 33 bachelor's degrees and 23 graduate programs. Students may also pursue the doctor of philosophy degree in public policy, 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.

Distance education. Distance education is a formal educational process in which the majority of the instruction (interaction between students and instructors and among students) in a course occurs when students and instructors are not in the same place. Instruction may be synchronous or asynchronous. A distance education course may use the internet; one-way and two-way transmissions through open broadcast, closed circuit, cable, microwave, broadband lines, fiber optics, satellite, or wireless communications devices; audio conferencing; or video cassettes, DVD's, and CD-ROMs if used as part of the distance learning course or program. The distance education degree programs are Criminal Justice, Computer Science, Interdisciplinary Studies and Psychology.

## **The Center for International Affairs, Continuing Education, and Service Learning**

**Dean:** Barbara W. Carpenter, PhD

**Assistant Dean:** Nadia Gasdson Moses, PhD

**SEVIS Officers (J-1 and F-1):** Christal Carroll, Nadia Gadson-Moses, Barbara W. Carpenter

**Service Learning Instructor/Coordinator:** Lori Hitchens

**Continuing Education Coordinator:** Nadia Gadson-Moses

**Administrative Assistant:** Rosa Robins

### **LOCATION:**

JS Clark Administration Bldg. 2<sup>nd</sup> Floor

Baton Rouge, LA 70813

Tel; 225 771-2613

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

### **Center for International Affairs**

The Center for International Affairs and Continuing Education includes vital units of the University. The Center for International Affairs and Continuing Education is the official unit that is responsible for infusing an international perspective throughout the undergraduate and graduate curricula on the campus. All international education and development programs are coordinated through the Center. 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 Affairs and Continuing Education. A majority of the study abroad opportunities are conducted through the establishment of Memoranda of Understanding (MOU) with selected universities throughout the world. A unique facet of the study abroad program is the combination of international service learning with language acquisition. Students participate in service learning programs in various countries where they teach English, work with community projects and participate in health initiatives while enrolling in language classes during their stay in the selected country.

The study abroad program is normally 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 Affairs and Continuing Education.

### **The Division of 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 colleges 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 or organizations 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**

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 Hour)

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

## **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 how- ever, 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.

**Institutional Research and Assessment (IRA)**

The mission of the Office Institutional Research and Assessment (IRA) is to facilitate the continuous quality improvement of the University through the process of institutional effectiveness. Institutional effectiveness entails the gathering and analysis of data to enhance overall quality in the areas of planning, assessment, measurement of student learning outcomes, operations management, policy formation, evaluation for improvement and informed decision making. All activities of the office function in support of the University's mission.

**Academic Outreach Programs**

**Unit Head:** Dana Carpenter, PhD  
Executive Director of Dual Enrollment,  
Accuplacer Testing and TRIO Programs

**Administrative Assistant:** Tracey Barton

**Educational Talent Search Director:** Patricia Doucet

**Upward Bound/Math and Science Executive Director:** Kenneth Mackie

**Upward Bound Classic Executive Director:** Rhonda L. Robinson

The Academic Outreach Programs provide pre-college and college level courses for Academic Affairs to use to enhance the educational experiences for students who are advanced in their secondary educational programs; provide enrichment for students who need a more rigorous program; and students who need to meet the criteria in English and Mathematics to be admitted to the university. The Unit coordinates academic programs for students before they enroll in college and provides special services for college students who participate in its Trio Programs. The Unit is organized into components that offer collegiate experience.

**Dual Enrollment**

Dual Enrollment is a program designed to allow high school students to enroll in college courses for credit prior to high school graduation. College credits earned through Dual Enrollment can be simultaneously applied toward high school and college graduation and can be transferred to other colleges and universities. The classes offer an opportunity for students to demonstrate a more rigorous



course load on their transcripts. The greatest benefit of Dual Enrollment is that it allows students to accumulate credits prior to entering college and complete all or most of their General Education Requirements.

### **TRIO Programs**

The TRIO Programs, Educational Talent Search, Upward Bound Math and Science programs and the Upward Bound Classic program are fundamental to participants in their pre-preparation for college entrance. The programs provide opportunities to succeed in their performance and ultimately in their higher education pursuits. The programs provide academic instruction in mathematics, sciences, composition, literature, and foreign languages. They also offer courses in engineering, reading, and study skills, criminal justice, personal finance and ACT Prep.

### **Accuplacer Testing**

The Accuplacer Testing is a computer-adaptive diagnostic, online intervention and placement testing system that assesses student academic skills in reading, writing, and mathematics, in an immediate and accurate way. The Unit offers the College Board Test to Southern University as an admission tool for English and Mathematics placement.

## **Dolores Margaret Richard Spikes Honors College**

**Dean:** Diola Bagayoko

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

**Administrative Assistant IV:** Valery Jones

**Program Associate/Recruiter:** 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 and through which they may become knowledgeable and effective leaders.

### **ADMISSION REQUIREMENTS**

Students seeking membership in the D. M. R. Spikes Honors College must fall under one of six tiers. Tier I is for Valedictorians and Salutatorians with an ACT composite score of 20-22.9 or an equivalent SAT score (without writing); Tier II requires a minimum ACT composite score of 23-23.9 or the equivalent SAT score (without writing), with a minimum high school GPA of 3.30; Tier III requires a minimum ACT composite of 24 and above or an equivalent SAT score (without writing) and a minimum GPA of 3.30; Tier IV is for a minimum ACT composite score of 25 and above or an equivalent SAT score (without writing), with a high school GPA of 3.00-3.29; and Tier V requires a minimum ACT composite score of 27 and above or equivalent SAT score, with a high school GPA of 3.50 or above. Further up to date information is available at the Web site of the College (<http://www.subr.edu/honorscollege>). Other factors affecting admission into the College, for non-freshmen applicants and transfer students, include writing skills, high school or college honors credits,

oral communication skills, creative work experiences, leadership qualities, community service, and scholarly achievements in co- and extra- curricular activities, graduation rank and strong letters of recommendation.

## **MEMBERSHIP CLASSIFICATION**

All students must meet the minimum entrance requirements and maintain a minimum, cumulative grade point average of 3.0/4.0, hold a full-time status, and take on average 4 or more honors credit hours each semester (Spring and Fall) to remain in the College.

## **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 (at least 6 hours), h-option or honors contracted courses, independent study, and designated honors courses in the general curriculum and in student's major area of study. Freshmen entering the Honors College will take selected honors-designated courses from the general curriculum, in addition to freshman colloquia.

Honors colloquia serve as the orientation courses in the College; they utilize innovative pedagogy and interdisciplinary approaches to current issues.

### **Selected Honors-Designated Course Areas**

Colloquia	English
Chemistry	Humanities
Biology	Engineering
History	Independent Study

## **HONORS CREDIT-BY-CONTRACT (H-Option or H-Opt.)**

Honors Credit-by-Contract (H-Option) courses are intended to enable students in every major to pursue honors work. H-Option allows students some freedom in building their own honors curriculum, a flexibility that often results in experiences not characteristic of traditional programs.

## **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 3.00 GPA ~~in~~ for all course work completed.
- A 3.30 GPA ~~in~~ for all honors courses.
- A minimum of 32 honors hours (Prorated for transfer students) to include:
  - 4 hours of Regular Honors Colloquia.
  - 2 hours of Senior 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. A student must write and defend successfully a thesis in her/his respective discipline, in addition to the requirements spelled out above. Respective Latin honors will be indicated for students who graduate with a cumulative grade point average of 3.4 or above.

### **HONORS CORE CURRICULUM**

**HONC 112.** Freshman Honors Colloquium (Credit, 1 hour). This course focuses on the mastery of English grammar and usage and 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, writing and intellectual engagement are integral parts of all class activities. Vocabulary, the GRE High-Frequency Word List, is a strong focus. Pre- and post-test or academic proficiency exams and LiveText assignments are essential in the course. Guest lecturers and other human resources are also utilized to enhance course content.\

**HONC 113.** Freshman Honors Colloquium (Credit, 1 hour). The mastery of English grammar and usage, Critical thinking, writing, logic reasoning, intellectual engagement, 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. Guest lecturers and other human resources are also utilized to enhance course content. Pre- and post-tests or academic proficiency exams are essential in the course.

**HONC 212-213.** Sophomore Honors Colloquia (Credit, 1 hour). These courses continue to focus on critical thinking, vocabulary building and self-expression. The mastery of English grammar and usage is understood. 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. LiveText assignments are integral parts of HONC 212.

**HONC 312-313.** Junior Honors Colloquia (Credit, 1 hour). These courses prepare students for ~~the~~ research thesis work. Research techniques and methodology are examined through supplemental readings and project assignments. LiveText assignments are integral parts of HONC 312.

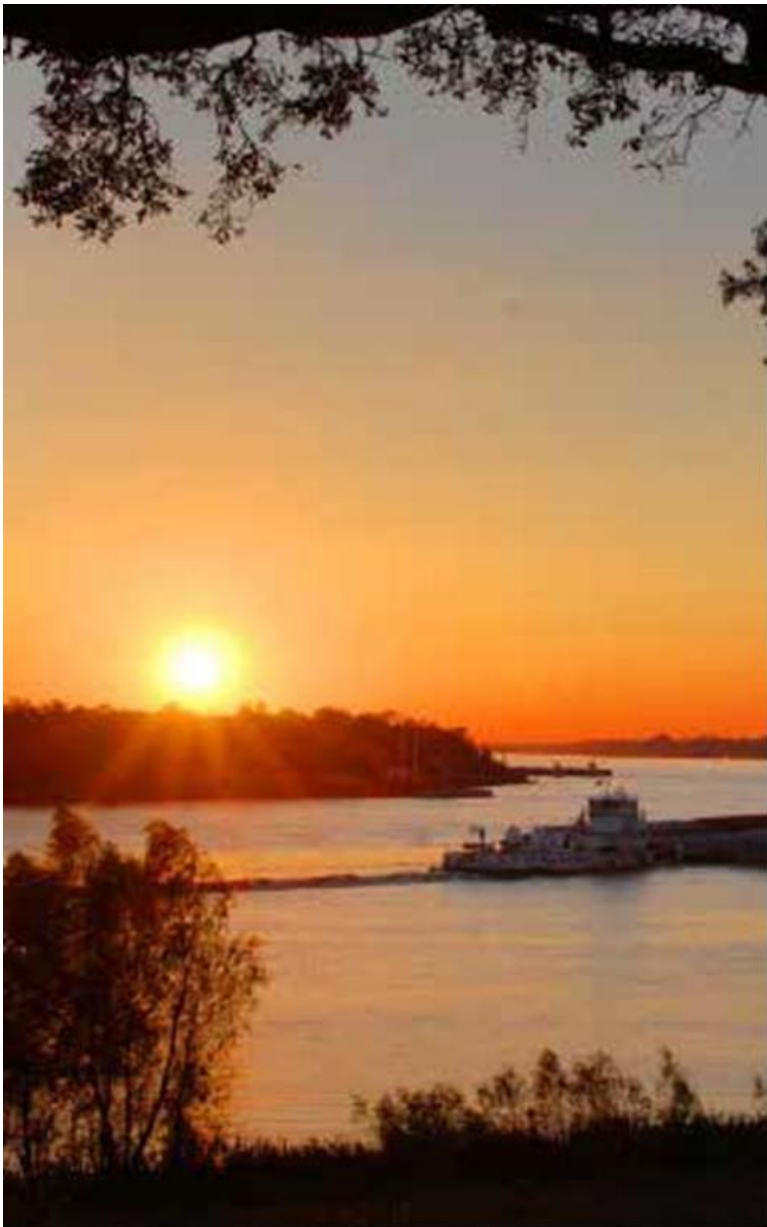
**HONC 314.** Independent Study (Credit, 1 hour). Independent Study provides the student with an opportunity to work closely with a faculty member on a scholarly project. It is a supplementary learning experience that encourages intellectual independence. While this course

is designed to allow students to conduct research or make preparations that lead to the writing of an Honors thesis, students may also use this course to pursue other areas of interest.

**HONC 350. Comprehensive Legal Reasoning and Writing (Credit, 2 hours).** This course is for acquiring competitive abilities in logical reasoning, critical thinking, and related analysis (distinguishing between argument and fact). The course entails exposure to logic problems and to the Issue-Rule-Analysis-Conclusion (IRAC) method or style used by lawyers and in law school. Extensive reading and writing that demonstrate these abilities pervade this course, which provides competitive preparation for the Law School Admission Test (LSAT) and corporate, managerial writing. It also prepares students for the verbal and writing components of the graduate record examination (GRE) and the graduate management admission test (GMAT), among others. HONR 350 requires English 110 and 111, or equivalent, as prerequisites.

**HONC 412 – 413. Senior Honors Colloquia (Credit, 1 hour).** These courses require the completion and defense of a formal thesis and/or research project that must be carefully planned in advance by both the honors students and their respective advisors. The purpose of the thesis or research project is for students to develop or to hone their research, scholarly writing, and professional presentation skills that are germane to successful careers in their chosen fields. The level of work expected is the same as in graduate study with respect to technique, accuracy, and logical presentation. Students must write, defend successfully a thesis in their respective discipline, have a minimum of 32 (or prorated number) honors credit hours, and a cumulative grade point average (GPA) of 3.0 or above.





# College of Agricultural, Family and Consumer Sciences

**Dean:** Bobby R. Phills

**Associate Dean:** Retia S. Walker

**Administrative Secretary:** Kim Butler

## College Overview

The College of Agricultural, Family and Consumer Sciences (CAFCS) embraces a mission that is consistent with the University's tripartite mission of teaching, research and public service. The CAFCS prepares students for professional careers in food, fiber, urban forestry and 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 programs in agricultural sciences, urban forestry and natural resources address 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, families and consumers. The results from this research contribute to improving the quality of life and well-being of 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; local, state and federal agencies; and businesses and organizations to maximize opportunities for its graduates.

The College of Agricultural, Family and Consumer Sciences has three departments – the Department of Agricultural Sciences, the Department of Family and Consumer Sciences, and the Department of Urban Forestry and Natural Resources. The Department of Agricultural Sciences offers a Bachelor of Science degrees in Agricultural Sciences with concentrations in Agricultural Business and Agricultural Economics, Animal Science, Pre-veterinary Medicine, and Plant and Soil Sciences. The Department 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. The Department of Urban Forestry and Natural Resources offers degrees in Urban Forestry at the Bachelors, Master's and Ph.D. levels.

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

## ADMISSION REQUIREMENTS

For regular admission to the College of Agricultural, Family and Consumer Sciences, the student must complete the requirements (or equivalent) of the Center for Undergraduate Student Achievement with no less than a 2.0 grade point average.

## TRANSFER OF CREDITS

A student transferring to the College of Agricultural, Family and Consumer Sciences (CAFCS) 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 CAFCS for its applicability to the specific general education and major requirements for a degree.

## DEGREE REQUIREMENTS

To be awarded a degree in the CAFCS, 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.

The Bachelor of Science degree is awarded to students who complete the requirements of the CAFCS as stated below:

- The completion of an approved program of study of ~~course work~~ with a minimum overall 2.0 GPA and with no grade of less than “C” in all CAFCS courses and ENGL 110 and ENGL 111. See the section on Baccalaureate Degree Requirements for details.
- The completion of the required minimum number of ~~hours of~~ credit hours in a major field. The specific semester-hour requirements for the curriculum or curricula in each program is outlined in the description of the program.
- The completion of the following general education requirements:

English.....	9 credits
Mathematics .....	6 Hours
History .....	0-3 credits
Arts.....	3 Hours
Science.....	Minimum of 9 Hours
Humanities.....	3 Hours
Social Science .....	6 Hours
Foreign Language .....	0-3 Hours

Computer Literacy.....0-3 Hours (See University General Education requirement for specific information)

In addition to the college requirements, students must complete Freshman Seminar (FRMN 110 and 111), a community service requirement, an African-American experience, a writing proficiency examination, and a comprehensive examination in the chosen program area.

For additional details, consult the section on *University General Education Requirements*.

### Freshman Seminar

To meet graduation requirements, students must take freshman seminar or its equivalent during the first year of matriculation at Southern University. 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 Agricultural Sciences Core Courses

	No.	Cr.
Orientation to Agricultural Sciences	AGSC 110	1
Plant Science	AGSC 210	3
Applied Economic Principles	AGSC 212	3

### Department of Family and Consumer Sciences Core Courses

Orientation to Family and Consumer Sciences	FCSC 140	1
Family and Consumer Sciences Perspectives	FCSC 481	2

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



## Department of Agricultural Sciences

**Chair:** Calvin R. Walker

**Professors:** Yemane T. Ghebreyessus, Patricia E. Mclean-Meynsse,  
Gary Simon, and Calvin R. Walker

**Associate Professor:**

**Administrative Assistant:** Angela Phelps

**Research Farm Specialist:** Felton DeRouen

The Department of Agricultural Sciences offers the Bachelor of Science degrees in Agricultural Sciences with concentrations in Agribusiness and Economics, Animal Science, Pre-Veterinary Medicine, and Plant and Soil Sciences.

Flexibility in the curricula of the degree programs permits students to complete an individually tailored program worked out in consultation with their advisors. The department 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 department are required to complete a minimum of 120 credit hours for the degree. These credits include a general education core, a departmental core and courses in the respective 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 concentration area comprehensive examination to graduate.

The Department's programs provide students with quality educational experiences in the basic and applied aspects of Agribusiness and Economics, Animal Science, Pre-veterinary medicine and Plant and Soil Sciences. 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.

### BACHELOR OF SCIENCE DEGREE IN AGRICULTURAL SCIENCES

**Program Leader:** Renita Marshall

#### AGRICULTURAL SCIENCE CONCENTRATIONS

Four concentrations in agricultural science are offered. The three concentrations are (1) agricultural economics, (2) animal science, (3) plant science and (4) pre-veterinary medicine. A student can choose concentration courses from any of the four areas. The concentrations provide students with a well-rounded background in areas so they can be competitive in the professional agricultural workforce. Additionally, the concentrations create an excellent foundation for graduate studies and veterinary medicine. The suggested agricultural science concentration courses are shown below.

##### **Agribusiness Concentration**

MGMT 300 --- Principles of Management

ACCT 201 --- Elem. Accounting II

AGEC 312 --- Agribusiness Management

MRKT 300 --- Principles of Marketing

##### **Agricultural Economics Concentration**

AGEC 412 --- Public Policy

AGEC 442 --- Marketing of Ag.

Products

AGEC 461 --- Price Analysis

AGEC 462 --- Resource

Economics

AGEC 470 --- Applied

Statistics

### **Animal Science Concentration**

AGSC 312 --- Meats

AGSC 321 --- Diseases of Farm  
Animals

AGSC 421 --- Animal Breeding

AGSC 430 --- Physiology of

Reproduction

AGSC 440 --- Animal Nutrition

### **Plant & Soil Sciences Concentration**

AGSC 305 --- Soil Fertility and Plant Nutrition

AGSC 311 --- Ornamental Horticulture

AGSC 342 --- Soil and Water Management

AGSC 404 --- Weeds & Weed

Control

AGSC 428--- Commercial

Vegetable Production

### **Pre-Veterinary Medicine Option**

Students that are interested in Veterinary Medicine as a career choice are required to consult with the program's veterinarian or Program Leader of Agricultural Sciences.

## **BACHELOR OF SCIENCE DEGREE IN AGRICULTURAL**

### **SCIENCES**

#### **Agribusiness Concentration**

##### **FRESHMAN YEAR**

###### **FIRST SEMESTER**

###### **SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course No.</b>	<b>Cr.</b>	
Orientation to Ag Sci	AGSC 110	1	Animal Science	AGSC 121	3
Freshman Composition	ENGL 110	3	Freshman Seminar	ENGL 111	3
History Elective	HIST	3	Pre-Calculus II	MATH 140	3
Pre-Calculus I	MATH 135	3	Biological Sciences	BIOL 105	3
Biological Sciences	BIOL 104	3	Biological Sciences	BIOL 107	1
Biological Sciences	BIOL 106	1	Freshman Seminar	FRMN 111	1
Freshmen Seminar	FRMN 110	1			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>14</b>

##### **SOPHOMORE YEAR**

###### **FIRST SEMESTER**

###### **SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr</b>
Literature Elective		3			.
Natural Sci. Elective		4	Farm Management	AGSC 214	3
Social Science Elective		3	Art Elective		3
Applied Econ Prin	AGEC 212	3	Principles of Econ I	ECON 200	3
Techniques of Speech	SPTH 210	3	Finite Math or	MATH 200	3
			Linear Algebra	MATH 233	3
			Plant Science	AGSC 210	3

<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>
<b>JUNIOR YEAR</b>			<b>SECOND SEMESTER</b>		
<b>FIRST SEMESTER</b>					
<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Financial Management	AGSC 333	3	Business Elective		3
Financial ACCT. Prin	ACCT 200	3	Managerial Accounting	ACCT 201	3
Calculus for Social Sci. or	MATH 203	3	Micro Computer Appl.	CMPS 290	3
Calculus I	MATH 264	3	Elementary Statistics	MATH 274	3
Free Elective		3	Agribusiness Management	AGEC 312	3
Free Elective		3			
<b>TOTAL</b>		<b>15 or 18</b>	<b>TOTAL</b>		<b>15</b>

<b>SENIOR YEAR</b>			<b>SECOND SEMESTER</b>		
<b>FIRST SEMESTER</b>					
<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Applied Statistics	AGSC 470	3	Price Analysis	AGSC 461	3
Marketing Ag. Products	AGSC 422	3	Special Problems	AGSC 499	3
Service Learning	SVLR 400	3	Agribusiness Mktg Mgmt	AGSC 452	3
Principles of Marketing	MKTG 300	3	Principles of Mgmt	MGMT 300	3
Mgmt or Mktg Elective		3	Public Policy	AGSC 412	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

### **AGRI-ECONOMICS/AGRI-BUSINESS CONCENTRATION**

#### **FRESHMAN YEAR**

<b>FIRST SEMESTER</b>			<b>SECOND SEMESTER</b>		
<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Orient to Agriculture	AGSC 110	1	Animal Science	AGSC 121	3
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Biology	BIOL 104/106	3/1	Biology	BIOL105 /107	3/1
Pre-Calculus I	MATH 135	3	Pre-Calculus II	MATH 140	3
History Elective	HIST	3	Freshman Seminar	FRMN 111	1
Freshman Seminar	FRMN 110	1			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>14</b>

#### **SOPHOMORE YEAR**

<b>FIRST SEMESTER</b>			<b>SECOND SEMESTER</b>		
<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Literature Elective	ENGL	3	Farm Management	AGSC 214	3

Natural Science Elective		4	Arts Elective		3
Applied Econ Principles	AGSC 212	3	Principles of Econ I	ECON 200	3
Social Science Elective		3	Plant Science	AGSC 210	3
Techniques of Speech	SPTH 210	3	Finite Math	MATH 200	
			or Linear Algebra**	MATH 233	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.
Financial Management	AGSC 333	3	Free Elective	3	3
Financial ACCT. Prin	ACCT 200	3	Elementary Statistics I	MATH 274	3
Micro Computer Appl.	CMPS 290	3	Inter. Micro Theory	ECON 310	3
Inter. Macro Theory	ECON 300	3	Intro to Sociology	SOCL 210	3
Calculus for Business or	MATH 203	3	Business Elective		3
Calculus I	MATH 264	4			
<b>TOTAL</b>		<b>15 or 16</b>	<b>TOTAL</b>		<b>15</b>

### SENIOR YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Global Eco/ECON Elective		3	Price Analysis	AGSC 461	3
Marketing Ag. Products	AGSC 422	3	Special Problems	AGSC 499	3
Service Learning	SVLR 400	3	Agribusiness Mktg/Mgmt	AGSC 452	3
<b>Applied Statistics</b>	<b>AGSC 470</b>	3	Resource Econ	AGSC 462	3
<b>Free Elective</b>		3	Public Policy	AGSC 412	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 264.

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

### AGRIBUSINESS CONCENTRATION

The following courses must be completed to satisfy the agribusiness concentration:

#### JUNIOR YEAR

Course	No.	Cr.
Principals of Management	MGMT 300	3
Managerial Accounting Principles	ACCT 201	3
Principles of Marketing	MKTG 300	3
Agribusiness Management	AGSC 310	3

### SENIOR YEAR

Course	No.	Cr.
Management or Marketing Elective		3
Business Elective		3

### Animal Science Concentration

#### SCIENCES FRESHMAN YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course No.		Cr.
Orientation to Ag Sci	AGSC 110	1	Animal Science	AGSC 121	3
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History Elective	HIST 114	3	Pre-Calculus II	MATH 140	3
Pre-Calculus I	MATH 135	3	Biological Sciences	BIOL 105	3
Biological Sciences	BIOL 104	1	Biological Sciences	BIOL 107	1
Biological Sciences	BIOL 106	1	Freshman Seminar	FRMN 111	1
Freshmen Seminar	FRMN 110	1	Social Science Elective		3
<b>TOTAL</b>		<b>13</b>	<b>TOTAL</b>		<b>17</b>

#### SOPHOMORE YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
English Lit. Elective		3	Chemistry Lec. II	CHEM 133	3
General Chemistry Lec	CHEM 132	3	Chemistry Lab II	CHEM 113	1
General Chemistry Lab	CHEM 112	1	Humanities Elective		3
Computer Sci. Elective		3	Biometrics	AGSC 203	3
Applied Econ Prin	AGEC 212	3	Plant Science	AGSC 210	3
Soil & Environment	AGSC 203	3	Health/PE Activity		2
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>

#### JUNIOR YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Meats	AGSC 312	3	Social Science Elective		3
Art Elective		3	AGSC or Free Elective		3
Forage Crops	AGSC 304	3	History Elective		3
Techniques of Speech	SPTH 210	3	AGSC Elective	AGSC	3
AGSC Elective	AGSC	3	Veterinary Science	AGSC	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.
AGSC Elective	AGSC	3	AGSC or Free Elective		3

Physiology of Reproduction	AGSC 430	3	Animal Breeding	AGSC 421	3
AGSC or Free Elective		3	Intro to GIS	UFOR 375	3
Agricultural Genetics	AGSC 410	4	Social Science Elective		3
Animal Nutrition	AGSC 440	3	Free Elective		3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>

## Plant & Soil Sciences Concentration

### SCIENCES FRESHMAN YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course No.		Cr.
Orientation to Ag Sci	AGSC 110	1	Animal Science	AGSC 121	3
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History Elective	HIST 114	3	Pre-Calculus II	MATH 140	3
Pre-Calculus I	MATH 135	3	Biological Sciences	BIOL 105	3
Biological Sciences	BIOL 104	1	Biological Sciences	BIOL 107	1
Biological Sciences	BIOL 106	1	Freshman Seminar	FRMN 111	1
Freshmen Seminar	FRMN 110	1			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>14</b>

### SOPHOMORE YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
English Lit. Elective		3	Chemistry Lec. II	CHEM 133	3
General Chemistry Lec	CHEM 132	3	Chemistry Lab II	CHEM 113	1
General Chemistry Lab	CHEM 112	1	Humanities Elective		3
Computer Sci. Elective		3	Biometrics	AGSC 203	3
Applied Econ Prin	AGEC 212	3	Plant Science	AGSC 210	3
Soil & Environment	AGSC 203	3	Health/PE Activity		2
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>

### JUNIOR YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
AGSC or Free Elective		3	Social Science Elective		3
Art Elective		3	Soil & Water Mgmt	AGSC 342	3
Forage Crops	AGSC 304	3	History Elective		3
Techniques of Speech	SPTH 210	3	AGSC Elective	AGSC	3
Weeds and Weed Control	AGSC 404	3	Ornamental Horticulture	AGSC 311	3
Soil Fertility & Plant Nutr.	AGSC 305	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.
AGSC Elective	AGSC	3	AGSC or Free Elective		3
Commercial Vegetable Prod.	AGSC 428	3	AGSC Elective	AGSC	3
AGSC or Free Elective		3	Intro to GIS	UFOR 375	3

Agricultural Genetics	AGSC 410	4	Social Science Elective	3
Free Elective		3		
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>	<b>12</b>

### Pre-Veterinary Medicine Concentration

#### SCIENCES FRESHMAN YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course No.		Cr.
Orientation to Ag Sci	AGSC 110	1	Animal Science	AGSC 121	3
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History Elective	HIST 114	3	Pre-Calculus II	MATH 140	3
Pre-Calculus I	MATH 135	3	Biological Sciences	BIOL 105	3
Biological Sciences	BIOL 104	3	Biological Sciences	BIOL 107	1
Biological Sciences	BIOL 106	1	Freshman Seminar	FRMN 111	1
Freshmen Seminar	FRMN 110	1	Social Science Elective		3
Health/PE Activity		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.
English Lit. Elective		3	Chemistry Lec. II	CHEM 133	3
General Chemistry Lec	CHEM 132	3	Chemistry Lab II	CHEM 113	1
General Chemistry Lab	CHEM 112	1	Humanities Elective		3
Computer Sci. Elective		3	Biometrics	AGSC 203	3
Applied Econ Prin	AGEC 212	3	Plant Science	AGSC 210	3
Soil & Environment	AGSC 203	3	AGSC or Free 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.
Meats	AGSC 312	3	Social Science Elective		3
Art Elective		3	AGSC Elective		3
Forage Crops	AGSC 304	3	History Elective		3
Techniques of Speech	SPTH 210	3	Elementary Physics	PHYS 142	4
Elementary Physics	PHYS 141	4	Veterinary Science	AGSC 321	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.
Microbiology	BIOL 230	3	Organic Chemistry	CHEM 250	3
Physiology of Reproduction	AGSC 430	3	Animal Breeding	AGSC 421	3
Microbiology Lab	BIOL 231	1	Intro to GIS	UFOR 375	3
Agricultural Genetics	AGSC 410	4	Organic Chemistry Lab	CHEM 210	1
Animal Nutrition	AGSC 440	3	Biochemistry Lecture	CHEM 234	3
			Biochemistry Lab	CHEM 212	1
<b>TOTAL</b>		<b>14</b>	<b>TOTAL</b>		<b>14</b>

## **DEPARTMENT OF URBAN FORESTRY AND NATURAL RESOURCES**

**Chair:** Yadong Qi

**Professors:** Kamran K. Abdollahi, Yemane T. Ghebreyessus, Zhu Hua Ning, Yadong Qi

**Associate Professor:** Yaw Twumasi

**Assistant Professors:** Christopher Chappell, Veronica Manrique

**Administrative Assistant:** Joyce Peralta

The Department 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 forest ecosystem and contribute to the environmental well-being of urban societies. The mission of the Department is the education of undergraduate and graduate students, professional urban foresters, arborists, the general public and the generation and application of new knowledge concerning the management of urban forest natural resources and ecosystems. The central theme of our instruction is that urban forests are essential to society, and their scientific management is necessary to ensure a sustainable flow of commodity and non-commodity benefits from urban forest ecosystems.

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. The program provides a solid background for pursuing M.S. and Ph.D. in Urban Forestry and other Natural Resources (refer to the SU Graduate Catalog). The Bachelor of Science degree in Urban Forestry provides a solid background for pursuing M.S. and Ph.D. in Urban Forestry and other Natural Resources. The Department of Urban Forestry and Natural Resources is the most comprehensive urban forestry higher education program in the nation and a leader in building the diverse, talented next generation of urban forestry and natural resources professionals in the country.

The Department offers strong integrated education, research and outreach components by providing services to the state, region and the nation. The Department was awarded as Department of Excellence through Faculty Excellence (DEFE) by the Louisiana Board of Regents in 1997. The faculty members have strong academic profile with expertise in many critical areas of urban forestry and natural resources. Many assistantships and scholarship opportunities exist for the students.

The Department has strong partnerships with the local, state and national entities. It is a member of the National Association of University Forest Resource Programs (NAUFRP). The Department is in partnership with the federal agencies, including the USDA. A special mutual partnership exists with the USDA-NIFA and the US Forest Service. The Department is also in partnership and collaboration with many scientific and professional societies, including the Society of American Foresters (SAF), International Society of Arboriculture (ISA). In addition, the program offers strong international and global competency initiative in partnership with the federal agencies and international universities.

The graduates are contributing to the workforce by being employed as Urban Foresters (City, State, Federal, and Arboricultural Industries), Natural Resources Managers, Expert Consultants, Municipal Arborists, GIS and Mapping Specialists, National Park System (NPS) and US Forest Service Employees, Extension Agents, Natural Resource Conservation Agents, Foresters, Industrial Arboriculture Managers, Landscape and Ground Managers, Conservation and Environmental Managers, Green Building and Urban Greening specialists, Graduate Assistants, USDA Employees, Scientists, Environmental Experts, and Higher Education Faculty & Staff.

### **Requirements for a Minor in Department of Urban Forestry and Natural Resources**

A minor in Urban Forestry and Natural Resources requires a minimum of 18 credit hours and may be selected from the following courses: UFOR 151, 251, 271, 278, 333, 371, 364, 391, 399, 400, 415, 417, 438, 455, 462, 466. A grade of C or better is required in all courses toward the minor.

## **BACHELOR OF SCIENCE DEGREE IN URBAN FORESTRY**

### **FRESHMAN YEAR**



## FIRST SEMESTER

## SECOND SEMESTER

Course	No.	Cr.	Course	No.	Cr.
Orient to Agriculture	AGSC 110	1	Freshman Seminar	FRMN 111	1
Freshmen Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Freshman Seminar	FRMN 110	1	Pre-Calculus II	MATH 140	3
Urban Forestry	UFOR 151	3	Gen. Chemistry Lecture	CHEM 132	3
Pre-Calculus I	MATH 135	3	Gen. Chemistry Lab	CHEM 112	1
Life Science	Biol 104/106	4	Life Science BIOL 105/107		4
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**SOPHOMORE YEAR**

## FIRST SEMESTER

## SECOND SEMESTER

Course	No.	Cr.	Course	No.	Cr.
Art Elective		3	Literature Elective	ENGL	3
Humanities Elective		3	Gen. Chemistry Lecture	CHEM 133	3
Soc. Science Elective		3	Gen. Chemistry Lab	CHEM 113	1
Urban Dendrology	UFOR 278	3	Applied Econ. Prin	AGEC 212	3
Biometrics	AGSC 230	3	Urb. For. Soil&Environ	UFOR 251	3
			Environmental Science	UFOR 271	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.
Forest Science	UFOR 333	3	Urban Forestry Ecol	UFOR 391	3
Arboriculture I	UFOR 364	3	UF Mensuration	UFOR 392	3
Intro to GIS	UFOR 375	3	Humanities Elective		3
Social Science Elective		3	Urban for Health ( PHC)		3
Urb. For Tech Elective		3	Urban For Internship	UFOR 399	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.
Service Learning	SVLR	0	Arboriculture II	UFOR 464	3
UF Eval/Inven/Mensur	UFOR 400	3	Urban Rec & Park	UFOR 466	3
Urban Forest Restoration	UFOR 415	3	Urban Forestry Mgmt	UFOR 455	3
Urban For Hydrology	UFOR 457	3	Urban Tree Physiology	UFOR 438	3
Sustainable UFor.	UFOR 410	3	Seminar in Urban For	UFOR 473	2
UFor Silviculture	UFOR 462	3			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>14</b>

**Department of Family and Consumer Sciences****Program Leader: Doze Y. Butler****Professors:** Cheryl Atkinson, Doze Y. Butler, Edith J. Harris, Bernestine B. McGee,**Associate Professors:** Cheria Lane-Mackey**Assistant Professor:** Jung-Im Seo**Adjunct Instructors:** Bernice Colbert, Kasundra Cyrus, Janet Gager, Charlene Jenkins, Glenda Johnson, Gwendolyn Marks, Monica McDaniels, Vadel Shivers, Gillian D. Sims**Administrative Assistant:** Deirdra B. Ricard

Family and Consumer Sciences has areas of concentration in Apparel Merchandising and Textiles, Child Development, Dietetics, Food Science and Food Management- The mission of the Department 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 Department 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 119 hours of course work.

The undergraduate program is accredited by the Council for Accreditation of the American Association of Family and Consumer Sciences. The Dietetic Internship is accredited by the Accreditation Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics. 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 Department 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~~ Department of Family and Consumer Sciences requires all majors to complete an internship, a practicum or field experience. The Department 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 for Internship Programs in Nutrition and Dietetics of the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics. 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.

### **Requirements for Minors in the Department of Family and Consumer Sciences**

A minor in Apparel Merchandising and Textiles requires a minimum of 18 credit hours and may be selected from the following courses: FCSC 250, 304, 307, 309, 340, 351, 354, 405, 442, 444, 464 and 497. A grade of C or better is required in all courses toward the minor.

A minor in Child Development can be selected from the following courses: FCSC 315, 375, 433, 470, 479, 490, and 492. The minor requires a minimum of 21 credit hours and a grade of C or better in all courses attempted.

A minor in Nutrition, Wellness and Health requires a minimum of 18 credit hours of subject matter courses with a grade of C or better in all required courses. The required 18 hours in human nutrition and food include FCSC 220, 332 or 230, 336,338, 439, and 495.

A minor in Food Management requires a minimum of 19 credit hours of subject matter courses with a grade of C or better in all required courses. The required 19 hours in food management include FCSC 220, 322, 346, 425, 450, and 480.

### **ADMISSION REQUIREMENTS**

Admission is open to students who have successfully completed the required credit hours and

courses to transfer to a senior college with a minimum grade point average of 2.00.

## DEGREE REQUIREMENTS

Requirements and procedures for admission, retention, and graduation are the same in the Department 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 119 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
Foreign Language Elective		3	Humanities Elective		3
Natural Science Lec.		3	Natural Science Lec.		3
Natural Science Lab		0-1	Natural Science Lab		0-1
College Math I (AMTX & CHDV)	MATH 130	3	College Math II (AMTX & CHDV)	MATH 131	3
or			or		
Pre-Calculus I (HNFD)	MATH 135	3	Pre-Calculus II (HNFD)	MATH 140	3
Orientation to Family and Consumer Sciences	FCSC 140	1	Art Elective		3
<b>TOTAL</b>		<b>14-15</b>	<b>TOTAL</b>		<b>16-17</b>

#### SOPHOMORE YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Literature Elective		3	Elementary Statistics	MATH 274	3
General Psychology		3	Concentration Requirement		3
FCSC Electives		3	Intro to Sociology	SOCL 210	3
Natural Sciences		3-4	Life Science Electives (HNFD) or Business Electives (AMTX & HNFD-FSM)		6
Concentration Requirement or Education Electives (CHDV)		3			6
<b>TOTAL</b>		<b>15-16</b>	<b>TOTAL</b>		<b>15</b>

#### JUNIOR YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Concentration Requirements		3	Concentration Requirement		3
FCSC Electives (AMTX, CHDV & HNFD)		3	FCSC Electives		9
Concentration Electives		9	Concentration Electives		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.
Service Learning	SVLR	0-3	FCSC Perspectives	FCSC 481	2
FCSC Electives (AMTX & HNFD)		12	FCSC Electives		9

\*AMTX—Apparel Merchandising and Textiles

\*CHDV—Child Development

\*HNFD—Human Nutrition and Food \*FSM—Food Science & Management

## **College of Business**

**Dean:** Donald R. Andrews

**Associate Dean and MBA Director:** Ashagre Yigletu

**Development/Placement Coordinator:** Toni Jackson

**Administrative Assistant IV:** Marilyn Doherty

The mission of the College of Business is to provide a quality business program that prepares students with diverse backgrounds for global career challenges and makes a positive contribution to the public and private sectors. 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 programs.

The College is organized into three undergraduate academic units and one graduate unit. The undergraduate academic units include the School of Accountancy, the Department of Economics and Finance, and the Department of Management and Marketing. The graduate unit includes the Master of Business Administration program. Through the Louisiana Small Business Development Center, the College offers professional assistance to small business enterprises in East Baton Rouge and surrounding parishes. In addition, the College has two endowed chairs, including the James A. Joseph Endowed Chair in Minority and Small Business Enterprise, the Jack Binion Chair in Business Administration (Supply Chain Management) and nine endowed professorships.

Undergraduate degree programs are offered in accounting, finance, management, and marketing. The College offers the Master of Business Administration degree program at the graduate level. All programs in the College of Business 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 major. The business curricula have been continuously revised and updated to reflect recent trends in higher education and business 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 knowledge in accounting, economics, finance, management, and marketing. A wide range of electives are also available in each of the business disciplines. Our educational programs emphasize quality instruction and considers the national and international dimensions of business and the development of students' communication skills.

The baccalaureate degree programs facilitate lifelong learning opportunities to prepare students to compete favorably for global careers, 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 following requirements:

- Attained at least a 2.0 grade point average on a minimum of 30 semester hours of college credit courses which must include
- Freshman Composition, ENGL 110 – 111, 6 hours (a grade of “C” or better);
- College Algebra and Calculus for Business and Social Sciences, MATH 135 and 203, 6 hours (a grade of “C” or better);
- Computer Science, 3 hours; and

- Natural Sciences, 6 hours

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Students transferring should pursue the program for one of the following curricula: Accounting, Economics, Finance, Management or Marketing.

\*\*The Economics degree program is no longer available to students as of May 2011.\*\* No new students will be admitted to the Department of Economics, as majors, effective the Fall 2011 semester

### **Transfer from Other Areas at the University**

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 and the requirements of students transferring from other areas of the 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 an in-state institution based on state transfer and articulation criteria. Transfers from all other institutions will be reviewed on a case by case basis for academic equivalency and will be approved for credit toward the degree program when they are deemed comparable to existing courses offered by the College of Business and when students have earned a grade of “C” or better in the courses.

### **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 121 semester hours with a minimum overall 2.00 GPA and 39 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 University and A & M College. All 300-400 level business courses are restricted to students who have completed 56 semester credit hours of college-level course work.

Business students must meet the writing proficiency requirements of the university and pass the departmental comprehensive exam in their respective major.

### **GENERAL EDUCATION REQUIREMENTS**

Students in the College of Business are required to complete the following general education requirements:

#### **English Composition and Literature**

Nine credit hours as follows:

- Freshman Composition, ENGL 110 (a grade of “C” or better)
- Freshman Composition, ENGL 111 (a grade of “C” or better)
- Literature Elective at the 200 level or above. Students are encouraged to complete Introduction to African-American Literature (ENGL 203), which will also satisfy the African-American Experience

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Requirement. However, students may take other approved English Literature Elective courses if they have satisfied the African-American Experience requirement with another course.

### **Natural Sciences**

Ten hours of course work in the biological and physical sciences, with a laboratory experience. At least six hours must be in a two-semester sequence. The College of Business recommends that students take the following courses to fulfill the Natural Science requirement:

- General Biology, BIOL 104 (3 credit hours)
- General Biology, BIOL 105 (3 credit hours)
- Physical Science (Lecture), PHYS 101 (3 credit hours)
- Physical Science (Laboratory Experience), PHYS 102 (1 credit hour)

### **Arts**

Three credit hours at the 200 level or above, which may be selected from the following:

- Fine Arts
- Music
- Dance
- Theatre

### **Humanities**

Three credit hours of History at the 200 level or above. Students are encouraged to complete African-American History (HIST 311), which will also satisfy the African-American Experience Requirement. However, students may take other approved History courses if they have satisfied the African-American Experience Requirement with another course.

### **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 the several courses offered in literature or history. See the University General Education Requirements section of this catalog for more detailed information.

### **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 community service as of the requirements for graduation. See the University General Education Requirements section of this catalog for more detailed information.

### **Mathematics**

Six credit hours as follows:

- Pre-Cal. I: College Algebra, MATH 135 (a grade of “C” or better)
- Calculus for Business and Social Sciences, MATH 203 (a grade of “C” or better)

Other higher-level calculus courses (where the student has earned a grade of “C” or better) may be substituted for MATH 203. Enrollment in advanced mathematics courses is encouraged.

### **Computer Science**

Three credit hours as follows:

- Advanced Techniques Using Spreadsheets, CMPS 291 with a grade of “C” or better.
- Students that have taken CMPS 290, Micro Computer Applications in Business prior to the

Fall 2010 semester, will be given credit for meeting the Computer Science requirement.

- Enrollment in additional advanced computer science courses is encouraged.

## Social Sciences

Six credit hours in the social sciences at the 200 level or above from the disciplines of:

- Economics
- Geography
- Political Science
- Psychology
- Sociology

Students in the School of Accountancy must satisfy the Social Sciences requirement by completing Principles of Economics I, ECON 200. Business students are also required to complete General Psychology, PSYC210.

## Communications (Written and Oral)

Six credit hours in communications as follows:

To satisfy the written communications requirement, students must complete:

- Technical Writing, ENGL 362 or Advanced Writing, ENGL 401

To satisfy the oral communications requirement, students must complete:

- Techniques of Speech, SPTH210

## COLLEGE COURSE REQUIREMENTS

General Business Education Courses (18 Credit Hours)	Course Number	Credit Hours
Financial Accounting Principles	ACCT 200	3
Managerial Accounting Principles	ACCT 201	3
Principles of Economics I (Macro)	ECON 200	3
Principles of Economics II (Micro)	ECON 210	3
Business and Economics Statistics I	ECON 275	3
Advanced Techniques Using Spreadsheets	CMPS 291	3

A Grade of "C" or better is required in all General Business courses.

Core Business Education Courses (30 Credit Hours)	Course Number	Credit Hours
Economics / Finance Elective	ECON / FINC 3XX	3
Business and Economics Statistics II	ECON 375	3
Managerial Finance I	FINC 330	3
Principles of Marketing	MKTG 300	3
Principles of Management	MGMT 300	3
Management Information Systems	MGMT 305	3
Quantitative Analysis in Business	MGMT 306	3
Production Management	MGMT 310	3
Legal Environment in Business	MGMT 360	3
Strategic Management	MGMT 490	3

A Grade of "C" or better is required in all General Business Education courses and all Core Business Education courses.

Note: Students in Accounting take Principles of Economics I (Macro), ECON 200 as a Social Science Elective and the Economics/Finance elective in the core.

Courses in the Major Field vary according to major as follows:

Accounting (27 credit hours): 300, 301, 310, 320, 340, 400, 430, 461, and two ACCT electives

Economics: 300, 310, 340, 415, 480, two ECON electives, and one ECON or FINC elective

Finance: ACCT 300, FINC 430, 436, 451, 481, two FINC electives, and one ECON or FINC

elective Management: 320, 420, 470, 480, and four MGMT electives

Marketing: 320, 335, 360, 475, 480, 491, and two MKTG

electives A Grade of "C" or better is required in all Major

Field courses.

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### MINORS IN THE COLLEGE OF BUSINESS

Non-Business majors may receive a minor in Accounting, Finance, Management, or Marketing by completing 18 hours. A minor in General Business requires 21 hours. Check with the Office of the Dean in the College of Business or online via the SUBR website for the curriculum for minors.

It is important to note that students majoring in Accounting, Finance, Management, or Marketing are already required to take 18 hours of general business education courses, therefore they cannot receive a minor in business management, since by definition they already have completed a minor by majoring in Business.

### CORRESPONDENCE AND ONLINE COURSES

If correspondence or online courses are taken, the plan of study must be submitted in writing to the appropriate department chairperson for approval prior to enrolling in the class. A maximum of six hours can be approved without special permission from the dean.

#### Department of Accounting Finance & Economics

**Chair:** Ghirmay S. Ghebreyesus

**Professors Emeriti:** Jaswant R. Jindia

**Professors:** Donald R. Andrews, Ghirmay S. Ghebreyesus, Vineeta Lokhande-Hingorani, Ashagre Yigletu, Melissa Waters, Sung C. No, and Aloyce Kaliba

**Associate Professors:** Michael Smyser, Joseph B. Omonuk

**Assistant Professor:** Mary A. Gray Darby, Koffi J. Dodor, Vasantha Chigurupati, Melanie Powell Rey

**Instructor:** Thelma Jones, Lauri R. Patterson

**Adjunct Professor:** Adell Brown, Bhaskar Toodi, Onyumba Lukongo, and Sherman Pittman

The Department of Accounting, Finance and Economics provide students with broad education in Accounting, Finance and Economics and advance the necessary skills and techniques in these fields to meet the rapidly changing demands of the global market place.

As part of the College of Business, the Department of Accounting, Finance and Economics emphasizes innovative teaching, research and professional service activities. It offers a four-year curriculum leading to a Bachelor of Science degrees in Accounting and Finance.

### BACHELOR OF SCIENCE IN ACCOUNTING

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 (CPA firms), 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 124 semester hours of which 30 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 Accountant (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 additional 26 hours beyond the hours required for the baccalaureate degree. We recommend that students consider the Master of Business Administration (MBA) Program in the College of Business to satisfy this requirement.

### Bachelor of Science in Accounting

#### Curriculum

#### FRESHMAN YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Pre-Cal. I: College Algebra	MATH 135	3	Calculus Bus./Soc. Sci.	MATH203	3
Humanities Elective	HIST (200 or above)	3	Advanced Techniques		
*Biological Science Elective		3	Using Spreadsheets	CMPS 291	3
Arts Elective	(200 or above)	3	** Biological Science Elective		4
Int. to Business & Entrep	BUSP 100	3			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>

\*Recommended Course: BIOL 104

\*\*Recommended Course: BIOL 105

#### SOPHOMORE YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Literature Elective	ENGL (200 or above)	3	Technical Writing	ENGL 362	3
Bus. & Econ. Stat.	ECON 275	3	Business Statistics II	ECON 375	3
*** Physical Science Elective		4	Techniques of Speech	SPTH 210	3
Prin. Of Econ	ECON 200	3	Managerial Acct. Prin.	ACCT 201	3
Financial Acct. Principles	ACCT 200	3	Prin. of Econ. II	ECON 210	3
General Psychology	PSYC 210	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.
Principles of Management	MGMT 300	3	Econ.or Finc. Elective (30 or above)		
Quant Analysis in Bus.	MGMT 306	3	Prod. Management	MGMT 310	3
Legal Environt of Business	MGMT 360	3	Managerial Finance I	FINC 330	3
Prin. of Marketing	MKTG 300	3	Intermediate Acct. II	ACCT 301	3
Intermediate Accounting I	ACCT 300	3	Managerial Cost. Acct.	ACCT 320	3
Tax Accounting	ACCT 310	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.
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
Service Learning		3	Accounting Elective	ACCT	3
AAE Elective/Free Elective		3			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>12</b>

\*\*\*PHYS 101/102

\*\*\*ECON 200 is the Social Science Elective for Accounting Majors.

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**BACHELOR OF SCIENCE IN FINANCE**

The Finance program provides students with a comprehensive knowledge of financial theories and the ability to apply analysis of financial markets and operation of financial institutions. Additionally, students are provided with experience designed to equip them with the theoretical tools of investigation and promote critical thinking and analytical skills in business and finance.

Such knowledge will enable students to obtain the necessary skills for career opportunities into one of the following areas:

- Financial Institutions including banks, insurance companies, real estate firms and financial regulatory agencies. To work for financial institutions requires knowledge of money and capital markets, factors affecting interest rates and applicable regulations.
- Corporate Finance and the work ranges from making decisions regarding plant expansions to choosing what types of securities to issue when financing those expansions.
- Careers in Investments includes working for brokerage houses such as Merrill Lynch, as sales person or security analyst; banks, mutual funds, or insurance companies as portfolio analyst; financial consulting firms advising individual investors or pension funds; or financial planner helping individuals develop long-term financial goals.

Finance majors are required to complete 120 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 presented to fulfill the credit hour requirement in the major. Finance electives in specialized areas are available to advanced students.

The Finance program has concentrations in Risk Management and Insurance and Business Economics. The Risk Management and Insurance concentration consists of four Risk/Insurance courses (12 credit hours) that can be used to satisfy the four elective courses required in the Finance degree curriculum. The Business Economics concentration also consists of four economics courses (12 credit hours) that can be used to substitute the four-elective course required in the Finance degree program.

**Bachelor of Science in Finance Curriculum**

**FRESHMAN YEAR**

FIRST SEMESTER

SECOND SEMESTER

Course	No.	Cr.	Course	No.	Cr.
English Composition	ENGL 110	3	English Composition	ENGL 111	3
Pre-Cal. I: College Algebra	MATH 135	3	Physical Science Elective		
Humanities Elective	HIST (200 or above)	3	(PHYS 101/102)		4
Intro to Business & E-ship	BUSP100	3	Calculus for Bus. and Soc.	MATH 203	3

Biological Science Elective (BIOL 104)	4	Arts Elective (200 or above)	3
		Advanced Techniques	
		Using Spreadsheets	CMPS 291
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>16</b>

### SOPHOMORE YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Prin. Of Macro Econ. I	ECON 200	3	Technical Writing	ENGL 362	3
<b>Literature Elective</b>	<b>ENGL (200 or above)</b>	<b>3</b>			
Business & Econ. Stat. I	ECON 275	3	Bus. Comm. & Prof. Dev.	BUSP210	3
Biological Science Sequence (BIOL 105)		3	Managerial Acct. Principle	ACCT 201	3
Financial Acct. Principle	ACCT 200	3	Gen. Psychology	PSYC 210	3
Prin. of Micro. Econ. II	ECON 210	3	Business and Economics Statistics II	ECON 375	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.
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
Managerial Finance I	FINC 330	3	Legal Environment of Business	MGMT 360	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.
Social Science Elective	(200 or above)	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
Finance/Economics Elective		3	Service Learning		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

•Finance electives are 300 and above

Students concentrating in Business Economics are permitted to substitute economics courses for finance elective courses. They should complete the following courses:

- ECON 300 Intermediate Macro Theory for Econ/Finance
- ECON 310 Intermediate Micro Theory for Finance Elective
- ECON 480 International Economics for Finance Elective

Choose one of the following for Econ/Finance Electives:

- ECON 320 Labor Economics
- ECON 340 Money and Banking
- ECON 415 Managerial Economic Analysis
- ECON 460 Economics of Growth and Development

**Students concentrating in Risk Management and Insurance should complete the following courses:**

- FINC 335 Fundamentals of Risk and Insurance for Econ/Finance Elective
- FINC 421 Principles of Property and Liability Insurance for Finance Elective
- FINC 425 Life Insurance and Professional Financial Planning for Finance
- FINC 325 Employee Benefits for Econ/Finance Elective

### Department of Management & Marketing

Chair: Jose Noguera

Endowed Chair for Small & Minority Business Enterprise: Vacant

**Jack Binion Chair in Business Administration (Supply Chain Management):** Vacant

**Professor Emeritus:** Harold A. Brown

**Professors:** Stephen Jaros, Saviour Nwachukwu, Mysore Ramaswamy, and Victor Mbarika

**Associate Professors:** Albert D. Clark Jr., George Kirk, Jose H. Noguera, and Carlos Thomas

**Assistant Professor:** Kimberly K. Powell

**Instructor:** Gregory Spann

**Adjunct Professor:** Lauri R. Patterson

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 124 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 124 credit hours of which 24 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. Management and 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 Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Pre-Cal. I: College Algebra	MATH 135	3	Physical Science Elective (PHYS 101/102)		4
Humanities Elective	HIST (200 or above)	3	Calculus for Bus. and Soc.	MATH 203	3
Biological Science Elective (BIOL 104)		3	Principles of Economics I	ECON 200	3
Arts Elective	(200 or above)	3	Advanced Techniques in Spreadsheets	CMPS 291	3
Intro to Business & Entrepreneurship (BUSP 100)		3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>16</b>

**SOPHOMORE YEAR**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr	Course	No.	Cr.
Literature Elective	ENGL (200 or above)	3	Technical Writing	ENGL 362	3
Bus. & Econ. Statistics	ECON 275	3	Business Communication and Professional Development	BUSP210	3
Natural Science Sequence (BIOL 105)		3	Intro to Managerial Acct.	ACCT 201	3
Intro to Financial Acct.	ACCT 200	3	Gen. Psychology	PSYC 210	3
Prin. of Econ. II	ECON 210	3	Business Economics		
			Statistics II	ECON 375	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/Finance Elective (300 Level)		3	Management Elective	MGMT*	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

### FRESHMAN 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 Elective	MGMT*	3
Social Science Elective	(200 or above)	3	Free Elective		3
Service Learning		3	Management Elective	MGMT*	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:

MGMT 400	Management Seminar
MGMT 465	Business and Professional Ethics
MGMT 401	Employment Law

#### Students concentrating in SCM should complete the following four courses:

MGMT 312	Purchasing and Materials Management
MGMT 410	Supply Chain Management
MGMT 445	Logistics and Transportation Systems
MGMT 446	Enterprise Resource Planning

#### Students concentrating in MIS should complete any four of the following six courses:

MGMT 340	Management and Business Databases
MGMT 341	Development of Business Information Systems
MGMT 440	Decision Support for Management
MGMT 441	Electronic Commerce
MGMT 443	Business Data Communications and Society
MGMT 446	Enterprise Resource Planning

## BACHELOR OF SCIENCE IN MARKETING

### FRESHMAN YEAR

## FIRST SEMESTER

Course	No.	Cr.
Freshman Composition	ENGL 110	3
Pre-Cal. I: College Algebra	MATH 135	3
Humanities Elective	HIST (200 or above)	3
Biological Science	(BIOL 104)	3
Arts Elective	(200 or above)	3
Intro to Business & Entrepreneurship (BUSP100)		3
<b>TOTAL</b>		<b>18</b>

## SECOND SEMESTER

Course	No.	Cr.
Freshman Composition	ENGL 111	3
Physical Science	(PHYS 101/102)	4
Calculus for Bus. and Soc.	MATH 203	3
Principles of Economics I	ECON 200	3
Techniques in Spreadsheets	CMPS 291	3
<b>TOTAL</b>		<b>16</b>

## SOPHOMORE YEAR

## FIRST SEMESTER

Course	No.	Cr.
Literature Elective	ENGL (200 or above)	3
Bus. & Econ. Stat.	ECON 275	3
Biological Science Sequence (BIOL 105)		3
Intro to Financial Acct.	ACCT 200	3
Prin. of Econ. II	ECON 210	3
<b>TOTAL</b>		<b>15</b>

## SECOND SEMESTER

Course	No.	Cr.
Technical Writing	ENGL 362	3
Business Communication and Professional Development (BUSP201)		3
Intro to Managerial Acct.	ACCT 201	3
Gen. Psychology	PSYC 210	3
Business and Economics Statistics II	ECON 375	3
<b>TOTAL</b>		<b>15</b>

## JUNIOR YEAR

## FIRST SEMESTER

Course	No.	Cr.
Prin. of Management	MGMT 300	3
Quant Analysis in Bus.	MGMT 306	3
Legal Environment in Bus.	MGMT 360	3
Prin. of Marketing	MKTG 300	3
Economics/Finance Elective	ECON	3
<b>TOTAL</b>		<b>15</b>

## SECOND SEMESTER

Course	No.	Cr.
Mgmt. Info. Systems	MGMT 305	3
Production Management	MGMT 310	3
Professional Selling	MKTG 335	3
Consumer Behavior	MKTG 320	3
Managerial Finance	FINC 330	3
<b>TOTAL</b>		<b>15</b>

## SENIOR YEAR

## FIRST SEMESTER

Course	No.	Cr.
Marketing Research	MKTG 475	3
Marketing Elective*	MKTG	3
Marketing and Promotion	MKTG 360	3
Social Science Elective	(200 or above)	3
Service Learning		3
<b>TOTAL</b>		<b>15</b>

## SECOND SEMESTER

Course	No.	Cr.
International Marketing	MKTG 480	3
Strategic Management	MGMT 490	3
Marketing Elective*	MKTG	3
Free Elective		3
Marketing Strategy	MKTG 491	3
<b>TOTAL</b>		<b>15</b>

\*Marketing students concentrating in professional sales should make the following course substitutions:

- 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

### Minor in Supply Chain Management/ERP for Non-Business

#### Majors

The Supply Chain Management minor consists of 18 credit hours which include the following six courses:

MGMT 300	Principles of Management	3 Hours
MGMT 310	Production Management	3 Hours
MGMT 312	Purchasing and Materials Management	3 Hours
MGMT 410	Supply Chain Management	3 Hours
MGMT 445	Logistics and Transportation Systems	3 Hours
MGMT 446	Enterprise Resource Planning using <b>SAP R/3</b>	3 Hours

## NELSON MANDELA COLLEGE OF GOVERNMENT AND SOCIAL SCIENCE

Dean: Damien D. Ejigiri, Ph.D.

Executive Administrative Assistant to the Dean: Juliette Williams

The College is located on the banks of the mighty Mississippi River is the home of a college that bears the moniker of an iconic man who changed the world through his demonstrative efforts of leadership. He encouraged strength through peace, compassion, education and integrity. Based on this premise, I invite you to a college just as mighty as the river where it resides.

The Nelson Mandela College of Government and Social Sciences is home to academic programs of prominence, prosperity and perpetuity for the student who dares to be intellectually challenged. If you desire to be historically, politically, psychologically or socially engaged in the premier academic setting we are the college for you. We are home to undergraduate program offerings in Criminal Justice, History, Political Science, Psychology, Sociology and Social Work. Our mission is simply to educate and serve. We are unrelenting in our commitment to educate individuals that will lead the public sector and service based organizations.

If this message touches and inspires your spirit I invite you to consider our programs and join us in our quest to ameliorate the world.





The Nelson Mandela College of Government and Social Sciences is the largest College at Southern University; it is home to over 1,300 majors. The Departmental curriculum/requirements provides a framework for students to gain knowledge about individuals, societies and cultures. It offers exposure to diverse perspectives essential to understanding contemporary society and oneself. Such knowledge about society and its problems prepares students to be intelligent, committed citizens of the world. The Nelson Mandela College of Government and Social Sciences professors draw from their academic background and professional experiences to provide students with the information they will need to be successful in their chosen field of study. NMCSS offers Bachelor of Science degrees in Criminal Justice, Psychology, Social Work, Sociology; and a Bachelor of Arts degree in History, Political Science.

The Department courses and degree programs are intended to provide for systematic advancement towards professional careers. Professionally- oriented courses, research and clinical internships, close faculty-student relationships, and liaisons with governmental and community agencies are emphasized as a means of helping students reach their academic and professional goals.

### **Academic Standards:**

Students in the Departments are expected to pass social and Behavioral Science's required core courses with a grade of C" or better. For graduating a student must have an index of 2.0 in his/ her major. Students will be required to repeat a course in their major in which a grade below C" is received.

### **ADMISSION REQUIREMENTS**

For regular admissions to the Nelson Mandela College of Government and Social 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 College of Engineering and Computer Science section of the catalog

### **TRANSFER OF CREDITS**

A student transferring to the Nelson Mandela College of Government and Social Sciences from another college or university must have the institution to send an official transcript to the Registrar's Office. 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 Nelson Mandela College of Government and Social Sciences for its applicability to the specific general education and major requirements for a degree.

## **DEPARTMENT OF PSYCHOLOGY**

**Chair:** Reginald Rackley

**Program Leader:** Jocelyn Freeman

**Professors:** Murelle G. Harrison, Cecil Duncan, Reginald Rackley, Jocelyn Freeman-Bonvillian

**Associate Professors:** Catrice Tolbert-Hill, Gerald Hecht

**Administrative Assistant:** Emelda A. Jefferson

The Department of Psychology offers courses designed to foster an understanding of behavior and mental processes. The department's undergraduate degree program leads to the Bachelor of Science

in Psychology. Options are available in prevention and substance abuse counseling that lead to certification in both areas. The department is an approved site to offer substance abuse and prevention course credit. Courses leading to becoming a prevention professional is another option available to psychology majors. 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 Nelson Mandela College of Government and Social Sciences.
- Forty-five 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 Testing PSCY 360, Physiological Psychology PSYC377, Experimental Psychology PSYC 412, Abnormal Psychology PSYC 468, Psychology of Learning PSYC 482 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 approved by the departmental chair.

## BACHELORS 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 Math I	MATH 130	3	College Math II		
(PHYS 101/102)		3	General Biology	BIOL 104/106	4
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
PE Activity		1	Health/PE Activity		2
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

### SOPHOMORE YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
General Psychology	PSYC210	3	Elementary Statistics	PSYC 274	3
Comp. Sci. Elective	CMPS 105/290	3	Social Science Elect.		3
Natural Science Elec.		3	Foreign Language		3
Foreign Language		3	Literature Elective	ENGL	3
Psychology Elective	PSYC	3	Psychology Elective	PSYC	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.
Advanced Statistics	PSYC 277	3	Psych. Testing	PSYC 360	3
Physiological	PSYC 377	3	Abnor. Psychology	PSYC 468	3
Humanities Elective		3	Arts Elective		3
Psychology Elective		3	Free Elective		3

**TOTAL** 15 **TOTAL** 15

**SENIOR YEAR**

FIRST SEMESTER		SECOND SEMESTER		
Course	Cr.	Course	No.	Cr.
Experimental	3	Field Experience	PSYC 303	3
Learning	3	Psychology Elective	PSYC	3
History and Systems	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>

**\*ELECTIVES**

Interpersonal Communication	PSYC 310	3
African-American Experience	PSYC 315	3
Psyc of African-American Child	PSYC 323	3
Intro. To Studies of Alcohol	PSYC 325	3
Substance Abuse & Hum. Beh.	PSYC 330	3
Thera. Appr. To Sub. Abuse Trt.	PSYC 335	3
Social Psychology	PSYC 342	3
Industrial Psychology	PSYC 350	3
Psychology of Sexuality	PSYC 370	3
Sensation & Perception	PSYC 381	3
Prevention Profess. Seminar	PSYC 420	3
Tobacco Prevention Seminar	PSYC 430	3
Personality	PSYC 431	3
Clinical Aspects of Addictions	PSYC 432	3
Developmental Psychology	PSYC 445	3
Applied Behavior Analysis	PSYC 485	3
Special Problems	PSYC 490/492/494	3

**\*15 HOURS REQUIRED FROM THE ABOVE ELECTIVES**

**Addendum to Curriculum Sheet**

The Nelson Mandela College of Government and Social Sciences

**Requirements Concentration: Psychology**

**DO NOT SUBSTITUTE A COURSE WITHOUT CLARIFICATION FROM** The Nelson  
Mandela College of Government and Social Sciences

**TRANSFER STUDENTS NEED TRANSFER ARTICULATION FORMS.**

English ..... 9 hours

ENGL 110 AND 111 plus three three hours of literature to be selected from ENGL 201, 202, 203, 204, 205.

Arts..... 3 hours

To be selected from ART 200, MUSC 200, OR MUSC 353.

Science..... 10 hours

The student must take a minimum of 10 hours of natural sciences, both physical and biological, that includes a two-semester sequence totaling 6 hours. A one semester (one hour) lab experience must be included in the IO hour requirement. The selection must be made from the courses listed below. Biology 104 & 106 and 105 and 107; Chemistry 108 & 128; 109 & 129; 110 & 130;

111 & 131; 1112 & 132; and 113 & 133; Physics 101, 102, 141, 142, 201, 202, 221, & 222.

Math (6 hours, MATH 130, MATH 131, OR above with approval from assigned advisor)  
 MATH 204 IS NOT ACCEPTABLE. MATH 274 CAN NOT BE USED AS A SUBSTITUTE  
 FOR PSYC 274.

Humanities.....	9 hours
Nine (9) hours that include a two-semester 6-hour sequence in History chosen from HIST 104-105, 114-115, or a higher level sequence. Three (3) additional hours must be selected from: PHIL 200, 210, or HUMN 241, 242, 244, 366.	
Social Science.....	6 hours
ECON 200 or 205; GEOG 210 or 221; POLS 200 or 210, PSYC 210 or SOCL 210	
Foreign Language.....	6 hours
(In the same language)	
Computer Literacy ... [ANYTHING PAST FIVE YEARS WILL NOT BE ACCEPTED] (CMPS 105 or CMPS 290).....	3 hours
Health or Physical Education .....	2
hours HLTH 110 OR 2 hours of PE 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 examination.. For further details, consult the section on University General Education requirements in the catalog.	

### DEPARTMENT OF SOCIOLOGY

**Program Leader:** Anthony Igiede

**Professors:** Ollie Christian, Elouise J. Spencer, , Riad Yehya

**Assistant Professor:** Kristie Perry

**Instructors:** 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 International Sociology Honor Society and La Epsilon Chapter of Pi Gamma Mu International Honor Society in the Social Sciences. A student led Sociology Club is an integral part of majors' experiences. Membership in the Sociology club provides students with a variety of experiences and activities that foster a broad understanding of the field of sociology and its applications in society.

### DEGREE REQUIREMENTS

A student majoring in Sociology must complete a total of 120 semester hours of which 36 semester hours must be in Sociology, including the following required courses: 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 in General Sociology (SOCL 499), and eighteen (18) hours of electives in Sociology. Students may take an additional eighteen (18) credit hours for a concentration in one of the following areas: (1) Forensic Science, (1) Urban Studies and Human Ecology, (3) Race and Gender Studies, (4) Health and Illness

Studies, and (5) Globalization and Diversity Studies. A minor in Sociology consists of at least eighteen (18) 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 in General Sociology (SOCL 499).

Students may concentrate in Forensic Science by completing the following courses: Terrorism in Contemporary Society (SOCL 370), Sociology of Deviant Behavior (SOCL 382), Juvenile Delinquency and its Treatment (SOCL 485), Criminology (SOCL 424), Penology (SOCL 425) and Forensic Science (SOCL400).

Students may concentrate in Urban Studies and Human Ecology by completing the following courses: Introduction to Population and Human Ecology (SOCL 324), Environment and Society (SOCL 340), Community Organization (SOCL 386), The Urban Community (SOCL428), Industrial Sociology (SOCL 448) and Sociology of Black Americans (SOCL435).

Students may concentrate in Race and Gender Studies by completing the following courses: Contemporary Social Problems (SOCL 220), Gender and Society (SOCL 390), Minority Group (SOCL 434), Sociology of Black Americans (SOCL 435), African American Sociological Thought (SOCL 436), and Sociology Internship (445).

Students may concentrate in Health and Illness by completing the following courses: Contemporary Social Problems (220); Sociology of Health and Illness (SOCL 280), Problems of Marriage and Family (SOCL 335), Introduction to Population and Human Ecology (SOCL 324), Globalization and Diversity (SOCL394), and Sociology Internship (445).

Students may concentrate in Globalization and Diversity by completing the following courses: Introduction to Population and Human Ecology (SOCL 324), Terrorism in Contemporary Society (SOCL 370), Minority Group Relations (Soc 434), Globalization and Diversity (SOCL 394), Political Sociology (SOCL 431), and The Sociology of African Culture (SOCL 442).

Sociology courses that may be used to satisfy the African American Experience requirement include: Minority Group Relations (SOCL 434), Sociology of Black Americans (SOCL 435), African-American Sociological Thought (SOCL 436), and The Sociology of African American Culture (SOCL 442).

## **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					
General Biology	BIOL 104/106	4	History	HIST 115	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
Intro to Sociology	SOCL 210	3	Free Elective		3
Literature	ENGL	3	Literature	ENGL	3
Foreign Language I	FOLG	3	Foreign Language II	FOLG	3
Science	Elective	3	Humanities Elective	HUMN	3
Soc. Sci. Electives		3	Social Problems	SOCL 220	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
Social Statistics	SOCL 350	3	Social Research	SOCL 450	3
Sociology Elective	SOCL	6	Sociology Elective	SOCL	6
Free Elective		3	Free Electives		6
Arts 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
Sociological Theory	SOCL 455	3	Senior Seminar	SOCL 499	3
Sociology Elective	SOCL	6	Sociology Electives	SOCL	3
Free Electives		6	Free Electives		7
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>13</b>

**DEPARTMENT OF SOCIAL WORK****Chair:** Erma J. Borskey**Professors:** Roslyn C. Richardson**Assistant Professors:** Erma Borskey and Monica Smith**Instructors (Adjunct):** Tangelo Colson, Donna Gaignard, Janzlean Laughinghouse and Melanie Washington

The Department of Social Work offers a Bachelor of Science Degree in Social Work. This professional degree program is accredited at the baccalaureate level by the Council on Social Work Education, 1725 Duke Street, Suite 500, Alexandria, Virginia 22314-3457, (703) 683-8080, [accred@cswe.org](mailto:accred@cswe.org) or [cswe.org](http://cswe.org).

This professional program prepares students for beginning level generalist social work practice. The student is also prepared for graduate study in schools of social work and related disciplines.

**ADMISSION REQUIREMENT**

Students are admitted to the program using the criteria below. Students are admitted 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. Admissions applications must be submitted prior to the beginning of the Fall semester.

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 required prerequisites.

Students will be admitted only after they have satisfied all of the following requirements:

- Transfer to the College
- A minimum grade of “C” in English 110 and 111
- Passed the University Writing Proficiency Examination
- Completed the following courses: Math 130, 131 or higher; History (6 hours), Biology 104, 105 and 106 or 107, Health 110, Psychology 210, Sociology 210 and Political Science 200
- A cumulative grade point average of 2.0 or above
- Earned a minimum grade of “C” in SOCW and SOCW 200 and SOCW 298
- Submission of application and approval for admission

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.

The Department of Social Work reserves the right to admit and retain students who demonstrate professional social work knowledge, skills and competencies and students who adhere to social work values and ethics.

## DEGREE REQUIREMENTS

The Bachelor of Science in Social Work is awarded to students who have satisfactorily completed 120 semester hours. The hours include 44 credit hours in required social work courses and 9 credit hours in social work electives and the following:

- Complete all University General Education requirements
- Complete all College requirements
- Complete 60 hours of service learning
- Complete African American Experience Course (3 credit hours)
- Passed the Department of Social Work Comprehensive Examination
- Satisfied all Department of Social Work requirements

The Department of Social Work does not award/grant credit for life experiences.

## 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
English Composition I ENGL	110	3	English Composition II ENGL	111	3
History** HIST		3	History** HIST		3
College Math I MATH	130	3	College Math Elective MATH		3
Biology Lecture BIOL	104	3	Biology Lecture BIOL	105	3
Biology Lab*** BIOL	106	1	Social Work as Profession* SOCW	2003	
Principles of Health HLTH	110	2			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>

\*\* HIST 224/225 are highly recommended for Social Work Majors. History 114/115 are also accepted.

\*\*\*One Biology lab is required. BIOL 106 (taken with BIOL 104) or BIOL (taken with BIOL 105) accepted.

### SOPHOMORE YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
American Government POLS	200	3	General Psychology PSYC	210	3
Intro to Sociology SOCL	210	3	Literature Elective ENGL		3
Intro to Soc. Welfare Pol. SOCW	270	3	Soc. Welfare Pol Analysis		
SOCW Foreign Language**		3	Foreign Language		3
Intro to Social Work Practice SOCW	298	3	Introduction to Research SOCW	310	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.
General SW Practice* SOCW393		3	Intro to Field Instruction* SOCW 396	2	2
General SW Practice Lab* SOCW 394		2	Humanities Elective*		3
Social Work Elective SOCW		3	Statistics*		3
Computer Science** CMPS		3			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>14</b>

\*\*Select from CMPS 105 or 290. \*\*\*Select from PSYC 274, Math 274, or SOCL 350.

**SENIOR YEAR**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Social Work Research* SOCW		3	Field Instruction	SOCW	4
Field Instruction* SOCW		4	Field Instruction Seminar*	SOCW	1
Field Instruction Seminar* SOCW		1	Social Work Elective	SOCW	3
Free Elective		3	Free Electives		2
Arts Elective		3	Social Work Elective	SOCW	3
<b>TOTAL</b>		<b>14</b>	<b>TOTAL</b>		<b>13</b>

\*Required course for Social Work majors.

Sixty hours of community service required for graduation, completed through SVLC 100, 200, 300, or 400.

**Bachelor of Political Science**

**Chair: Blanche Smith**

**Professors: Kingsley Esedo, Revathi Hines, Hassan Mahadallah, Albert Samuels**

**Assistant Professors: Blanche Smith, Christopher Cottrell**

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 120 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. All political science majors must pass major courses with a 2.0 GPA. The curriculum includes the University’s general education requirements, these include nine 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.

**BACHELOR OF ARTS IN POLITICAL SCIENCE****FRESHMAN YEAR****FIRST SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Freshman Seminar	FRMN 110	1
English Composition	ENGL 110	3
History Sequence	HIST	3
College Math I	MATH 130	3
Natural Science Elective		3
Health/PE Activity		1
<b>TOTAL</b>		<b>14</b>

**SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Freshman Seminar	FRMN 111	1
English Composition	ENGL 111	3
History Sequence	HIST	3
College Math II	MATH 131	3
Natural Science Elective		3
Arts Elective		3
<b>TOTAL</b>		<b>16</b>

**SOPHOMORE YEAR****FIRST SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Writing Seminar	POLS 206	3
American Government	POLS 200	3
Literature Elective	ENGL	3
Foreign Language		3
Natural Science Elective		3
<b>TOTAL</b>		<b>15</b>

**SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Internat'l Relations	POLS 202	3
Cultural Geography	GEOG 210	3
Foreign Language		3
Intro to Poli. Science	POLS 220	3
Micro-Computer Applications	CMPS 290	3
<b>TOTAL</b>		<b>15</b>

**JUNIOR YEAR****FIRST SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Intro to Comparative Gov't.	POLS 232	3
Intro to Sociology	SOCL 210	3
Principles of Economics I	ECON 200	3
Elementary Statistics	MATH 274	3
General Psychology	PSYC 210	3
<b>TOTAL</b>		<b>15</b>

**SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Political Science Elective	POLS	3
Sociology Elective	SOCL	3
Principles of Economics II	ECON 210	3
Constitutional Law	POLS 351	3
Political Theory	POLS 480	3
<b>TOTAL</b>		<b>15</b>

**SENIOR YEAR****FIRST SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Advance Sem. in Poli. Science	POLS 483	3
Quantitative Techs. in Poli. Sci.	POLS 484	3
Geography Elective	GEOG	3
Humanities Elective		3
Free Elective		3
Writing Proficiency		
<b>TOTAL</b>		<b>15</b>

**SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Political Science Elective	POLS	9
Free Elective		3
Departmental Comprehensive		0
Black American Experience		3
Community Volunteerism		3
<b>TOTAL</b>		<b>15</b>

**BACHELORS OF ART IN HISTORY****Program Leader:** Shawn Comminey**Professors:** Michael Fontenot, Wanda Jackson, Ruby Jean Simms, Charles Vincent**Associate Professors:** Shawn Comminey**Assistant Professors:** Peter Breaux, Michael Firven, Don Hernandez**Instructors:** Emmitt Glynn, William Turner

The general aim of the program is to produce students who can demonstrate an in-depth knowledge of the histories of the peoples of the world and use the tools of historical research to expand the fields of knowledge. Students completing the baccalaureate in history will adequately demonstrate a competency in history by expressing themselves orally, and in writing, in any given arena.

A major in history consists of at least 30 hours of history exclusive of freshman courses. A minor in history consists of 18 hours, including History 224, History 225, and 12 hours of history electives. Students of history are encouraged to minor in such fields as speech, journalism, and related disciplines, 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 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.

**REQUIRED COURSES**

A. History 224, 225, 400, and 414

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

**SPECIFIC DEGREE REQUIREMENTS**

In completing the curriculum for the baccalaureate in History, students must pass a departmental comprehensive, the Writing Proficiency Examination, and demonstrate a competency in computer literacy by passing an appropriate course or examination. They must also earn a minimum of a "C" grade in all history courses, as well as in Freshman Composition (ENGL 110 and 111), perform 60 hours community service, and pass 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

<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
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	3	General biology	BIOL 105	3
History of Civilization	HIST 114	3	History of Civilization	HIST 115	3
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	1
<b>TOTAL</b>		<b>13</b>	<b>TOTAL</b>		<b>13</b>

**SOPHOMORE YEAR**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Techniques of Speech		3	English Elective		3
Philosophy		3	Physical Science w/Lab	PHYS 101	4
English Elective		3	Arts Elective		3
Foreign Language Sequence	FOLG 100	3	Foreign Language Sequence	FOLG 101	3
American Govt.	POLS 200	3	Geography Elective		3
Intro. to Sociology	SOCL 210	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 of the U.S.	HIST 224	3	History of the U.S.	HIST 225	3
History (Non U.S.)		3	History (Non U.S.)		3
Principles of Economics	ECON 200	3	Computer Science		3
History	HIST 400	3	Historiography	HIST 414	3
Service Learning		3			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>12</b>

**SENIOR YEAR**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Foreign Language	FOLG	3	Free Elective		3
Free Electives		6	Health/PE Activity		3
History Electives		9	Humanities Electives		6
History (Non U.S.)		3			
<b>TOTAL</b>		<b>21</b>	<b>TOTAL</b>		<b>12</b>

**DEPARTMENT OF CRIMINAL JUSTICE****Chair: Allison Anadi**

Professor: Allison Anadi, Russell L. Dawkins, Chanika Jones

Assistant Professor: Johnnie Jones

**Adjuncts:** Pamela Taylor-Johnson, C. Hunter King

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 in our online programs 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 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**

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.

A total of 120 credit hours are needed to obtain a B.S. degree with 42 hours in the area of criminal justice are required for a B.S. degree: 27 hours of core courses and a minimum of 15 hours of criminal justice electives.

A minor in Criminal Justice is accomplished by completing a total of 21 hours: 18 hours of the core courses including CRJU 201, CRJU 210, CRJU 211, CRJU 245/247, CRJU 357, and CRJU 469, plus 3 hours of Internship (CRJU 300).

## **BACHELORS OF SCIENCE IN CRIMINAL**

### **JUSTICE FRESHMEN YEAR**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar	FRMN 110	1	Freshman Seminar	FRMN 111	3
English Composition	ENGL 110	3	English Composition	ENGL 111	3
History Elective*		3	History Elective*		3
College Math I	MATH 130	3	College Math II	MATH 131	3
Health*	110/210	2	Natural Science		3
Criminal Justice I	CRJU 201	3	Corrections	CRJU 210	3
Computer Literacy	105	3	PE Elective*		1
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>19</b>

### **SOPHOMORE YEAR**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	.Cr. Natural
Science Elective*		3	Humanities Elective*	HUMN	3
Intro to Sociology	SOCL 210	3	Social Science Elective*		3
English Elective*	ENGL	3	Art/Music Elective*		3
Applied Criminal Theory	CRJU 211	3	Criminal Law	CRJU 245	3
Policing in America	CRJU 240	3	Criminal Procedure	CRJU 247	3
Natural Science Lab*		1	Foreign Language	100	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.
Natural Science Elective*		3	Criminal Justice Elective*	CRJU	3
Foreign Language		3	Criminal Justice Elective*	CRJU	3
Analyzing Crime (Stats)	CRJU 357***	3	Criminal Justice Elective*	CRJU	3
Criminal Justice Elective*	CRJU	3	Free Elective		3
<b>TOTAL</b>		<b>12</b>	<b>TOTAL</b>		<b>12</b>

### **SENIOR YEAR**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	.Cr.
Victimology	CRJU 469	3	Senior Seminar	CRJU 499	3
Criminal Justice Elective*	CRJU	3	Free Elective		3
Free Elective		3	Free Elective		3
Free Elective		3	Free Elective		3
<b>TOTAL</b>		<b>12</b>	<b>TOTAL</b>		<b>12</b>

## **OTHER UNIVERSITY REQUIREMENTS:**

Department Comp  
Writing Proficiency

Black American Experience\*\*  
Service Learning\*\*

\*Must be chosen from a list of approved elective courses (See your Criminal Justice advisor).

\*\*To fulfill "Other University Requirements," Black American Experience can be used as a free elective or as a required course. Service Learning can be used as a Free Elective for only 3 credits.

\*\*\*CRJU 357 Must be taken and passed prior to students' last semester of undergraduate enrollment and prior to taking the Departmental Comp. Exam

## **College of Humanities and Interdisciplinary Studies**

Dean: Cynthia Bryant

The College of Humanities and Interdisciplinary Studies is comprised of the departments of Languages and Literature (English and World Languages), Mass Communication, and Fine and Performing Arts (Music, Fine Arts, and Theater Arts); and the School of Education that is comprised of the departments of Curriculum and Instruction and Educational Theory, Policy, and Practice.

In accordance with the mission of Southern University and A&M College, the College of Humanities and Interdisciplinary Studies provides academic programs that prepare students to demonstrate mastery of analytical, verbal, and written communication skills; excellence in artistic production and performance; distinction as superior K-12 teachers, administrators, and educational leaders; and overall leadership in meeting the diverse challenges of the 21<sup>st</sup> century global community. 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 social, educational, and economic institutions and problems. To enhance the cultural climate of the University, the College provides a variety of lectures, workshops, concerts, artistic productions, and art exhibits. The College of Humanities and Interdisciplinary Studies prepares majors for graduate and professional schools and provides leadership in the arts, humanities, and education.

**Arts and Humanities major and minor offerings in the College are as follows:**

### **Department of Mass Communications**

Mass Communication (BA)

### **Department of English, World Languages, and History**

English (BA)

Concentrations: Liberal Arts or Secondary Education Certification

Minors: English and World Languages

### **Department of Visual and Performing Arts**

Music (BM)

Concentrations: Performance or Secondary Education Certification

Minors: Fine Arts, Theater Arts, and Music

**The School of Education degree offerings in the College are as follows:**

### **Department of Curriculum & Instruction**

Elementary Education Grades 1-5 (BS)

Elementary Education and Special Education M/MOD.

Grades 1-5 (BS) Middle School Education and Special Education M/Mod GR 4-8 (BS)

## SOUTHERN UNIVERSITY<sup>92</sup>

Students will be eligible for admission to the College of Humanities and Interdisciplinary Studies when they have completed at least 30 semester hours with a minimum grade point average of 2.0. The 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 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 Humanities and Interdisciplinary Studies will determine the acceptability of transfers 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 Humanities and Interdisciplinary Studies 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 the 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 final degree checkout and preparation of an application for graduation. Completed graduation applications are due in the College of Humanities and Interdisciplinary Studies Office prior to the end of the 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 Humanities and Interdisciplinary Studies.

### 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 120 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 ( <i>Must include two courses, six semester hours, in history.</i> )
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.

## SOUTHERN UNIVERSITY 93

### Department of Mass Communications

#### BACHELORS OF ART IN MASS COMMUNICATIONS

**Chair (Interim):** Okoye Ahmose

**Professors:** Mahmoud Braima, Lorraine Fuller



**Assistant Professors:** Yolanda Campbell, Okoye Ahmose

**Engineer/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 87 semester hours (of the 120 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, 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 (BROADCAST JOURNALISM SEQUENCE)

### FRESHMAN YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Fine Arts		3	Foreign Language	FOLG 100	3
English	ENGL 110	3	English	ENGL 111	3
History	HIST	3	History	HIST	3
Math	MATH 130	3	Math	MATH 131	3
Science		3	Science		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

Students seeking admission to the mass communication program must have completed 30 semester hours with a grade-point average of at least 2.0, must have earned at least “C” in English 110 and 111, and passed writing proficiency.

### SOPHOMORE YEAR

## FIRST SEMESTER

## SECOND SEMESTER

<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Philosophy	PHIL	3	Tech. of Speech	SPTH 210	3
Political Science	POLS 200	3	English	ENGL	3
English	ENGL	3	Humanities	HUMN	3
Foreign Language	FOLG 101	3	Foreign Language	FOLG 200	3
Science		3	Political Science	POLS 210	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

Students must pass MCOM 211 (News Writing) with at least a "C" before they will be allowed to take any upper-level courses in Mass Communication.

**JUNIOR YEAR**

## FIRST SEMESTER

## SECOND SEMESTER

<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Intro to Mass Comm	MCOM 202	3	Writing Elective Med	MCOM 230	3
News Writing	MCOM 211	3	Broadcast Newswriting	MCOM 322	3
Mass Comm Elective	MCOM	3	Compt. Ass. Rep.	MCOM 325	3
African American Studies		3	Economics	ECON 205	3
Service Learning		3	Computer Lit.	COMPS105	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**SENIOR YEAR**

## FIRST SEMESTER

## SECOND SEMESTER

<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Elect. Field Prod	MCOM 328	3	Multi Media Production	MCOM 455	3
Broadcast Reporting & Nctg	MCOM 330	3	Convergent Media	MCOM 494	3
Mass Comm Elective	MCOM	3	Communications Law	MCOM 400	3
Elective		3	Elective		3
Elective		3	Elective		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**BACHELOR OF ARTS IN MASS COMMUNICATION  
(PRINT JOURNALISM SEQUENCE)**

**FRESHMAN YEAR**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Fine Arts		3	Foreign Language	FOLG 100	3
English	ENGL 110	3	English	ENGL 111	3
History	HIST	3	History	HIST	3
Math	MATH 130	3	Math	MATH 131	3
Science		3	Science		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

Students seeking admission to the mass communication program must have completed 30 semester hours with a grade-point average of at least 2.0, must have earned at least “C” in English 110 and 111, and passed writing proficiency.

**SOPHOMORE YEAR**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Philosophy	PHIL	3	Tech of Speech	SPTH 210	3
Political Science	POLS	3	English	ENGL	3
English	ENGL	3	Humanities	HUMN	3
Foreign Language	FOLG 101	3	Foreign Language	FOLG 200	3
Science		3	Political Science		
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

Students must pass MCOM 211 (News Writing) with at least a “C” before they will be allowed to take any upper-level courses in Mass Communication.

**JUNIOR YEAR**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Intro to Mass Comm.	MCOM 202	3	Media Graphics	MCOM 307	3
News Writing	MCOM 211	3	Mass Comm. Elective	MCOM	3
Mass Comm. Elective	MCOM	3	Compt. Ass. Reporting	MCOM 325	3
African-American Studies		3	Economics	ECON 205	3
Service Learning		3	Computer Lit.	COMPS105	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

*NOTE: MCOM 306 and 308 are only offered in the fall. MCOM 401 is only offered in the spring.*

**SENIOR YEAR**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
General Assignment Reptg.	MCOM 306	3	Public Affairs Reporting	MCOM 401	3
Photojournalism	MCOM 343	3	Convergent Media	MCOM 494	3
News Editing	MCOM 308	3	Communications Law	MCOM 400	3

Elective  
Elective  
**TOTAL**

3 Elective  
3 Elective  
**15 TOTAL**

3  
3  
**15**

**BACHELOR OF ARTS IN MASS COMMUNICATION (PUBLIC RELATIONS SEQUENCE)**

**FRESHMAN YEAR**

**FIRST SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Fine Arts		3
English	ENGL 110	3
History	HIST	3
Math	MATH 130	3
Science		3
<b>TOTAL</b>		<b>15</b>

**SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Foreign Language	100	3
English	ENGL 111	3
History	HIST	3
Math	MATH 131	3
Science		3
<b>TOTAL</b>		<b>15</b>

Students seeking admission to the mass communication program must have completed 30 semester hours with a grade-point average of at least 2.0 and must have earned at least “C” in English 110 and 111 and writing proficiency.

**SOPHOMORE YEAR**

**FIRST SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Philosophy	PHIL	3
Political Science	POLS 200	3
English	ENGL	3
Foreign Language	101	3
Science		3
<b>TOTAL</b>		<b>15</b>

**SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Tech of Speech	SPTH 210	3
English	ENGL	3
Humanities	HUMN	3
Foreign Language	200	3
Political Science	POLS 210	3
<b>TOTAL</b>		<b>15</b>

Students must pass MCOM 211 (News Writing) with at least a “C” before they will be allowed to take any upper-level courses in Mass Communication.

**JUNIOR YEAR**

**FIRST SEMESTER**

**SECOND SEMESTER**

*NOTE: MCOM 301 and 316 are only offered in the fall. MCOM 430 and 439 are only offered in spring term.*

**SENIOR YEAR**

**FIRST SEMESTER**

**SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
PR Practices	MCOM 301	3
PR Writing	MCOM 316	3
Communications Law	MCOM 400	3
Elective	MCOM	3
Elective		3
<b>TOTAL</b>		<b>15</b>

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
PR Research	MCOM 430	3
PR Tech & Camp	MCOM 439	3
Convergent Media	MCOM 494	3
Elective		3
Elective		3
<b>TOTAL</b>		<b>15</b>

**Mass Communication Minor**

**NEWS EDITORIAL**

**BROADCAST NEWS**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Intro to Mass Comm.	MCOM 202	3
News Writing	MCOM 211	3
Mass Comm. Law	MCOM 400	3
Media Graphics	MCOM 307	3
GA Reporting	MCOM 306	3
News Editing	MCOM 308	3
<b>TOTAL</b>		<b>18</b>

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Intro to Mass Comm.	MCOM 202	3
News Writing	MCOM 211	3
Mass Comm. Law	MCOM 400	3
Broadcast News Writing	MCOM 322	3
Elect. Field Production	MCOM 328	3
Broadcast Reporting	MCOM 330	3
<b>TOTAL</b>		<b>18</b>

***Public Relations Minor***

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

***Departmental Electives***

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Introduction to Radio	MCOM 225	3
African Americans in the Media	MCOM 331	3
Feature Writing	MCOM 341	3
TV Editing	MCOM 345	3
Sports Writing	MCOM 361	3
Managing Radio and TV Stations	MCOM 441	3
Broadcasting & Advertising	MCOM 475	3
Internship	MCOM 491	3
Ethics in Mass Communication	MCOM 499	3

**DEPARTMENT OF LANGUAGES AND LITERATURE**

**Chair (Interim):** Vonsha Henderson

**Professor:** Munir Ali, Irma Farfan-Cobb

**Associate Professors:** Cynthia D. Bryant, Vonsha Henderson, Cynthia D. Manson, Thomas Miller, Sumita Roy, Ezhankulam C. Samkutty

**Assistant Professors:** William Broussard, Mary C. Carruth, Fatima Chajia, Rasheedah Jenkins

**Instructors:** Jesus Avila, Maynard Batiste, Jesse DeLong, Natalie D’Auvergne-LaMotte, John Hainly, Hattie Lacy, Donna Porche-Frilot, Olivia Pass, Ali Rezaie, John Smith, Shelisa Theus, Sharon Tohline, Shannon Warner, Florence Wellons, Anna Woodard

**ENGLISH PROGRAM**

The academic program in English prepares students to express themselves effectively in writing and speaking and to respond to and expand creative and artistic efforts. The program 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 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 Humanities and Interdisciplinary Studies, 15 hours of free electives or a minor in another discipline, and specialized study in English, for a total of 120 hours.

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

<b>Required Courses</b>	<b>No.</b>	<b>Cr.</b>
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	English courses	6

*(Numbered 300 or higher with special permission for graduate-level courses)*

## Writing Proficiency and Exit Examinations

Successful completion of a Departmental Comprehensive Examination is a prerequisite to graduation.

### 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 (Liberal Arts)

### FRESHMAN YEAR

#### FIRST SEMESTER

#### SECOND SEMESTER

Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	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
*General Biology I	BIOL 104	3	*General Biology II	BIOL 105	3
Elem. Foreign Language	FOLG 100	3	Elem. Foreign Language	FOLG 101	3
**Principles of Health OR	HLTH	2	History of Civilization I	HIST 114	3
**Physical Ed. Activity	PHED	1	**Physical Ed. Activity	PHED	1
			Writing Proficiency	ENGL 001	0
<b>TOTAL</b>	<b>14 or 15 (if PHED is taken)</b>		<b>TOTAL</b>	<b>16 or 17 (if PHED is taken)</b>	

### SOPHOMORE YEAR

#### FIRST SEMESTER

#### SECOND SEMESTER

Course	No.	Cr.	Course	No.	Cr.
Introd. to Literature	ENGL 200	3	World Literature	ENGL 201	3
History of Civilization II	HIST 115	3	Techniques of Speech	SPTH 210	3
Intermed. Foreign Language	FOLG 200	3	Cultural Geography	GEOG 210	3
*Physical Science I	PHYS 101	3	Understanding Arts	ARTS 200	3
Principles of Economics	ECON 200	3	Introd. to Philosophy	PHIL 200	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.
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
Race Relations	HUMN 366	3	@Computer Sci. Elective		3
Free Elective		3	Free Electives		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.
History of English Lang.	ENGL 433	3	Period Course English	ENGL	3
Literary Criticism	ENGL 451	3	English Elect. (300 or higher)	ENGL	3
Shakespeare	ENGL 471	3	English Elect. (300 or higher)	ENGL	3
Community Service	SVLR 400	3	Free Elective		3
English Seminar Cap.	ENGL 498	3	Free Elective		3
Dept. Comprehensive	ENGL 000	0			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

\***One** of these science courses must be accompanied by a one hour lab.

\*\* Principles of Health (HLTH) for 2 credit hours **or** 2 Physical Education Activities (PHED) for 1 credit hour each.

@ The computer applications general education requirement may be fulfilled by **any** one of the following: CRIN 212, CMPS 105, CMPS 250, CMPS 290, ENGL 362 (Technical Writing).

**However**, if Technical Writing is used to fulfill the computer applications requirement, it may **not** be used to fulfill the required 300-level or higher English elective (listed under Senior Year).

Students must have **passed** all required Junior Year English courses (i.e., ENGL 305, ENGL 308, ENGL 309, ENGL 310, ENGL 311 and ENGL 313) to take the English Seminar capstone course.

## BACHELOR OF ARTS IN ENGLISH (with Teaching Certificate)

### FRESHMAN YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Gen. Biology (lec/lab)	BIOL 104/106	3	Gen. Biology II (lec/lab)	BIOL105/107	4
History	HIST 114	3	History	HIST 115	3
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
College Math I	MATH 130	3	College Math II	MATH 131	3
Seminar in Education	CRIN 205	3	Principles of Education	CRIN 211	3
**Principles of Health OR	HLTH	2	Writing Proficiency	ENGL 001	0
**Physical Ed. Activity	PHED	1	**Physical Ed. Activity	PHED	1
<b>TOTAL HOURS</b>	<b>15 or 16 (if PHED is taken)</b>		<b>TOTAL</b>	<b>16 or 17 (if PHED is taken)</b>	

**PRAXIS I** requirement should be satisfied prior to the first semester sophomore year.

### SOPHOMORE YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Understanding the Arts	ARTS 200	3	Physical Science	PHYS 101	4

Principles of Economics	ECON 200	3	Amer. Government	POLS 200	3
Intro to Philosophy OR	PHIL 200	3	World Literature	ENGL 201	3
Intro to Logic	PHIL 210	3	Adol. Psyc. Teachers	BHVS 240	3
Educ. Psyc. Teachers	BHVS 200	3	Survey Stud. w/Disap	SPED 299	3
Intro. to Literature	ENGL 200	3	Multicultural Educ.	CRIR 323	3
<b>TOTAL HOURS</b>	<b>15</b>		<b>TOTAL HOURS</b>	<b>19</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
African Amer. History	HIST 311	3	Evaluation Procedures	CRIN 402	3
Classroom Mgt. Teach.	CRIR 328	3	Methods & Materials	CRIN 422	3
			Teach. Read. Sec. Schools	CRIN 495	3
<b>TOTAL HOURS</b>		<b>15</b>	<b>TOTAL HOURS</b>		<b>15</b>

**PLT (7-12) requirement should be satisfied prior to the first semester junior year.**

## SENIOR YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Sec. Sch. Meth/Mat.	CRIN 324	3	Student Teaching	CRIN 447	3
Service Learning	SVLR 400	3	Student Teaching	CRIN 449	3
History of English Lang.	ENGL 433	3	<b>Pass the following before Student Teaching:</b>		
Literary Criticism	ENGL 451	3	English Department Comp.	ENGL 000	0
Shakespeare	ENGL 471	3	Writing Proficiency	ENGL 001	0
English Seminar	ENGL 498	3	Oral Proficiency		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>9</b>

\*\* Principles of Health (HLTH) for 2 credit hours **or** 2 Physical Education Activities (PHED) for 1 credit hour each.

Students must have **passed** all required Junior Year English courses (i.e., ENGL 305, ENGL 308, ENGL 309, ENGL 310, ENGL 311 and ENGL 313) to take the English Seminar capstone course.

## **WORLD LANGUAGES PROGRAM**

World Languages offers Concentrations in French or Spanish, 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, Arabic, Wolof, Portuguese and Swahili to students seeking to fulfill undergraduate requirements. World Languages 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.

### **CONCENTRATION IN FRENCH OR SPANISH FOR PROFESSIONAL**

The Concentration is to provide language and culture training for students of Southern who are pursuing majors in: Health Care, Criminal Justice, Social Services, Education and Business. This foreign language initiative allows students to select an area of concentration (study) either in French or Spanish language and culture, and provides students the language skills necessary to communicate on a professional level. This concentration is designed to meet the needs of students who wish to enhance their language and culture expertise to increase professional opportunities, to gain a valuable skill and expertise in a foreign language, and to better their understanding of other cultures.

The Concentration Foreign Languages for Professionals is comprised of eighteen (18) credit hours of language and culture courses beginning at the elementary level (currently the 100 course numbers). Students will acquire the key vocabulary, useful phrases and critical grammatical elements that they will need to engage in practical dialogue and meaningful exchanges in specific professional settings. Classes will focus on developing students' oral and aural abilities in order to prepare them to ask for, obtain, and effectively communicate essential information in real-world contexts. Students will receive critical cross-cultural training related to the countries and/or regions where the chosen target language (French or Spanish) is spoken.

### **ADMISSION AND REQUIREMENTS:**

This concentration is open to students enrolled at Southern University in a degree program, as well as those who wish to enroll as a non-degree-seeking student through Continuing Education.

The Concentration requires the 18 credit hours shown below, and successful completion of a comprehensive exit exam. Students must earn a grade of "C" as a minimum for all courses in the concentration.

### **REQUIREMENTS FOR CONCENTRATION:**

Three foundation classes and a sequence of four courses for a total of 18 credits are required for the Concentration:

**REQUIRED COURSES FOR CONCENTRATION IN LANGUAGE FOR PROFESSIONALS:**  
3 hours credit each

ELEMENTARY FRENCH I OR SPANISH I

FREN 100/SPAN 100

ELEMENTARY FRENCH I OR SPANISH II	FREN 101/SPAN 101
FRENCH OR SPANISH FOR PROFESSIONALS	FREN 214/SPAN 214 (BUSINESS, HEALTH CARE, LAW ENFORCEMENT AND SPANISH FOR TEACHERS)
FRENCH OR SPANISH FOR PROFESSIONAL	FREN 214/SPAN 215 (BUSINESS, HEALTH CARE, LAW ENFORCEMENT AND SPANISH FOR TEACHERS)
FRENCH OR SPANISH INTERMEDIATE CONVERSATION	SPAN 219
FRENCH OR SPANISH SPECIAL TOPICS	SPAN 410

\*Student will have the option to participate in a summer study abroad course, and engage in a Service Learning project abroad, where they will earn three hours credit in FOLG 219 and three hours credit in international volunteerism, thereby fulfilling their volunteerism requirement for graduation; or 2) partner with a domestic enterprise which has international connections to undertake field/internship experience, and take FOLG 219 at SUBR. NB: FOLG =Foreign Languages

**REQUIREMENTS FOR MINORS: 3 Hours credit each**

French I or Spanish I Intermediate	SPAN 200
French II Spanish II Intermediate	SPAN 201
French or Spanish Phonetics	SPAN 202
French or Spanish Intermediate Conversation	SPAN 219
French or Spanish Advance Spanish	SPAN 255
French or Spanish Introduction to Reading Let.	SPAN 300
Or French or Spanish Special Topics	SPAN 410

General Education Students

If a student requires six or more hours of language, **these hours must be taken in the same language**, otherwise the student **will not receive degree credit for those foreign language courses** (exceptions: Chinese 100/101, Arabic 100/101, Swahili 214/215, Wolof 100/101, Portuguese 100/101, and German 100/101.

Credit Examination

Students with two or more years of high school credit and native speakers should consult the World Language chairperson prior to registration for classes they would like to exempt. **Native speakers cannot receive credit for 100/101 level courses.** (100 level) by passing credit examinations.

## DEPARTMENT OF FINE AND PERFORMING ARTS

**Chair:** Erma Waddy Hines, Ph.D.

**Professors:** Robert Cox, Addie Dawson-Euba, Jacqueline Paige Green, Randell Henry, Richard Hobson, Charles Lloyd, Jr., Joyce O'Rourke

**Associate Professors:** Joao Casarotti, Judy Guilbeaux-James, Craig Heinzen

**Assistant Professors:** Harry Anderson, Herman Jackson

**Adjunct Instructors:** Brian Dunbar, Laurence Hebert, Daniel Holmes, Jonathan C. Knoll, Patrick Lavergne, Antoinette MacDonald-Ellis, Eric Scherer, Phillip Slater, Ernesteen Spencer, Doris Spooner-Hall, Eugene Wade

The Department of Fine and Performing Arts offers the Bachelor of Arts degree in Music and minor concentrations in four disciplines: Fine Arts, Music, Speech Communication, and Theatre Arts.

In addition to its primary role of providing professional and pre-professional training for its majors,

The department also serves as a major cultural center and resource for the University, offering a wide range of activities and courses that promote the aesthetic development of the general population. A continuing series of exhibitions, staged in the beautiful fine arts gallery, are open to the Southern University and Baton Rouge communities.

The department provides instruction and training that promote and encourage efficient verbal and oral communication skills and cooperates with the School of Education in training teachers in visual and performing arts. There are many courses in the department's wide range of offerings that fulfill electives or may be taken to expand students' experiences in the visual and performing arts. Prerequisites or other conditions are noted in the course descriptions in each of the four disciplines.

All majors and minors in the department are required to participate in co-curricular organizations and/or activities of respective programs (e.g., music ensembles, theatrical productions, debates, art exhibits), which serve as laboratories for training in their respective disciplines.

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 Humanities and Interdisciplinary Studies); 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 music program. Students are responsible for knowing and adhering to published schedules for the administration of the above tests and for applying for graduation.

## **MUSIC (MUSC)**

The music program offers major and minor concentrations in music education and music performance. The department offers programs leading to the Bachelor of Music Education and Bachelor of Music. Specific graduation requirements are listed in the curricula for each discipline.

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 two semesters of marching band and two semesters of 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 an ensemble throughout matriculation as music majors or minors. 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.

Departmental policy requires that music education majors enroll in two semesters of concert choir. 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 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 set by the College of Humanities and Interdisciplinary Studies (Bachelor of Music) or the School of Education (Bachelor of Music Education).

The professional teaching degree, Bachelor of Music Education (Piano and Voice) or (Instrumental), is awarded through the School of Education. Requirements for this program are listed in the School 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 Fine and Performing Arts Music area, as well as in the School 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 instrumental.

## **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 – 12 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) (2 Hours 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 semesters) – 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 – 6 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 118 – Economics of the Music Business

MUSC 241 – Recording Arts

MUSC 353 – History of Jazz

MUSC 116 – Intellectual Properties

MUSC 122 – Electronic Percussions

MUSC 243 – Louisiana Ethnic Music

## **BACHELOR OF ARTS IN MUSIC**

### **FRESHMAN YEAR**

FIRST SEMESTER				SECOND SEMESTER		
<b>Course</b>	<b>No.</b>	<b>Cr.</b>		<b>Course</b>	<b>No.</b>	<b>Cr.</b>
College Mathematics	MATH 130	3.0		College Mathematics	MATH 131	3.0
Freshman English	ENGL 110	3.0		Freshman English	ENGL 111	3.0
American History	HIST 104	3.0		American History	HIST 105	3.0
Harmony	MUSC 102	2.0		Harmony	MUSC 103	2.0
Ear Training and Sight Singing	MUSC 104	2.0		Ear Training and Sight Singing	MUSC 105	2.0
Major Applied	MU__	2.0		Major Applied	MU__	2.0

Performance Class	MUSC 130	0.0	Performance Class	MUSC 131	0.0
Ensemble	MU__	1.0	Ensemble	MU__	1.0
*Secondary Piano	MUSC 108	1.0	*Secondary Piano	MUSC 109	1.0
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>17</b>

### SOPHOMORE YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
General Biology	BIOL 104	3.0	General Biology	BIOL 105	3.0
Harmony	MUSC 202	2.0	Harmony	MUSC 203	2.0
Ear Training and Sight Singing	MUSC 204	2.0	Ear Training and Sight Singing	MUSC 205	2.0
Major Applied	MU__ ____	2.0	Major Applied	MU__ ____	2.0
Performance Class	MUSC 230	0.0	Performance Class	MUSC 231	0.0
*Secondary Piano	MUSC 208	1.0	*Secondary Piano	MUSC 209	1.0
Ensemble	MU__ ____	1.0	Ensemble	MU__ ____	1.0
Principles of Economics	ECON 200	3.0	Concentration Elective	_____	3-6
Concentration Elective	_____	3-7			
<b>TOTAL</b>		<b>14-18</b>	<b>TOTAL</b>		<b>17-1</b>

### JUNIOR YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Music History	MUSC 250	3.0	Music History	MUSC 251	3.0
Form and Analysis	MUSC 302	2.0	Counterpoint	MUSC 304	2.0
Major Applied	MU__ ____	2.0	Major Applied	MU__ ____	2.0
Performance Class	MUSC 330	0.0	Performance Class	MUSC 331	0.0
Ensemble	MU__ ____	1.0	Ensemble	MU__ ____	1.0
Physical Science	PHYS 101	4.0	American Government	POLS 200	3.0
Conducting	MUSC 418/419	2.0			
Concentration Elective	_____	3.0	Concentration Elective	_____	
<b>TOTAL</b>		<b>13</b>	<b>TOTAL</b>		

### SENIOR YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Major Applied	MU__ ____	2.0	Philosophy/Logic	PHIL 200/210	3.0
Performance Class	MUSC 430	0.0	Major Applied/Recital	MU__ ____	2.0
Ensemble	MU__ ____	1.0	*Ensemble	_____	1.0
Music Technology	MUSC 114	2.0	Service Learning	SVLR 400	3.0

Music Elective	_____	2.0	Concentration Elective	_____	3-
Concentration Electives	_____	6-8	*Performance Class	MUSC 431	0.
Concentration Electives	_____	6-8	*Performance only		
<b>TOTAL</b>		<b>13-15</b>	<b>TOTAL</b>		<b>12</b>

**\*Piano majors do not have to take Secondary Piano**

### **VOCAL PERFORMANCE CONCENTRATION COURSES**

Courses	No.	Cr.
Freshman Seminar	FRMN 110	1.0
Foreign Languages	FOLG 100	3.0
Foreign Languages	FOLG 101	3.0
Foreign Languages	FOLG 200	3.0
Intro to African American Literature	ENGL 203	3.0
Techniques of Speech	SPTH 210	3.0
Applied Music (MAJOR)		
MUSC 136, 137, 236, 237, 336, 337, 436,437		
Ensemble		
MUCC 124, 125, 224, 225, 324, 325, 424, 425		

### **INSTRUMENTAL/PIANO PERFORMANCE CONCENTRATION COURSES**

Courses	No.	Cr.
Freshman Seminar	FRMN 110	1.0
Foreign Languages	FOLG 100	3.0
Foreign Languages	FOLG 101	3.0
Foreign Languages	FOLG 200	3.0
Intro to African American Literature	ENGL 203	3.0
Techniques of Speech	SPTH 210	3.0
Applied Music (Instrumental)		
MUSC 120, 121, 220, 221, 320, 321, 420, 421		
Applied Music (Piano)		
MUSC 112, 113, 212, 213, 312, 313, 412, 413		
Ensemble (Instrumental)		

MUMB or MUCB 124, 125, 224, 225, 324, 325, 44, 425

Ensemble (Piano)

MUCC 124, 125, 224, 225, 324, 325, 424, 425

## VOCAL MUSIC EDUCATION CONCENTRATION COURSES

Courses	No.	Cr.
Seminar in Education	CRIN 205	2.0
Principles in Education	CRIN 211	3.0
Choral Methods	MUSC 391	2.0
Educational Psychology	BHVS 220	3.0
Classroom Management for Teachers	CRIN 328	3.0
Principles of Teaching (Elementary)	CRIN 416	2.0
Adolescent Child Psychology	BHVS 230 or 240	3.0
Principles of Teaching (Secondary)	CRIN 417	2.0
Reading	CRIN 494	3.0
Vocal Pedagogy	MUSC 402	2.0
Student Teaching	MUSC 447	9.0

## INSTRUMENTAL/PIANO MUSIC EDUCATION CONCENTRATION COURSES

Courses	No.	Cr.
Seminar in Education	CRIN 205	2.0
Principles of Education	CRIN 21	3.0
String Class	MUSC 315	2.0
Brasswind Class or	MUSC 316	2.0
Art of Accompanying	MUSC 317	
Principles of Teaching (Elementary)	CRIN 416	2.0
Educational Psychology	BHVS 220	3.0
Classroom Management for Teachers	CRIN 328	3.0
Principles of Teaching (Secondary)	CRIN 417	2.0
Percussion Class or	MUSC 319	2.0
Voice Class (for piano)	MUSC 134/135	
Instrumental Methods or	MUSC 435	2.0
Choral Methods	MUSC 391	
Adolescent Child Psychology	BHVS 230 or 240	3.0

Student Teaching	MUSC 447	9.0
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### **ELECTIVES FOR PERFORMANCE CONCENTRATION**

Social Science Elective		3.0
Social Science Elective		3.0
English Literature		3.0
History of Jazz (optional)		(3.0)

### **ELECTIVES FOR MUSIC EDUCATION CONCENTRATION**

(for instrumental majors only)

Orchestration (Required)	MUSC 432	(2.0)
Band Arranging (optional)	MUSC 433	

Total Hours per concentration

Bachelor of Music Vocal Performance Concentration	120
Bachelor of Music Instrumental Performance Concentration	120
Bachelor of Music Vocal Music Education Concentration	*130
Bachelor of Music Instrumental/Piano Music Education Concentration	*130

\*Includes Student Teaching Hour

## **SCHOOL OF EDUCATION**

### **Director: Verjanis Peoples**

The School of Education prepares diverse professionals who foster learning by utilizing technology and best practices in diverse educational and clinical environments. The School of Education offers programs designed to prepare educational leaders who become teachers, administrators, and clinical practitioners.

The school consists of two departments, Curriculum and Instruction and Educational Leadership, Policy, and Practice, which is a graduate program. Consult the graduate catalog for more information on graduate programs in the School of Education. Centers dedicated to research, technology, and professional development are also housed in the School of education. The Southern University Laboratory School serves as a primary site for clinical/field experiences of students in the school. Undergraduate degrees offered are Bachelor of Science in Elementary Education and Bachelor of Science in General Special Education (grades 1-5 and 4-8). The School also offers several minors that lead to secondary certification in Biology, Chemistry, History, Mathematics, Music, and Physics.

Graduates of the school's teacher program are critical thinking professionals who model best practices, and engage learners from multicultural and global perspectives. 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.

## **TEACHER CERTIFICATION**

Southern University School 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. Our programs are accredited by the National Council for Accreditation of Teacher Education (NCATE); that accrediting has now become the Council for the Accreditation of Educational Programs (CAEP)

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.

### **Alternative Certification**

The School 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

## **Department of Curriculum & Instruction**

**Chair (Interim):** Tonya Rose

**Professors:** VerJanis A Peoples, Mwalimu Shujaa

**Associate Professors:** James A. Taylor, Luria Young

**Assistant Professors:** Natalie Chesser, Leigh Griffin, Louis Hightower, Diana F. Kelly, Regina Patterson, Tonya J. Rose, Michael Rutledge

**Instructors:** Melinda Roberts

The Department of Curriculum and Instruction is an integral component of the newly redesigned School of Education. Programs offered by the Department of Curriculum and Instruction prepare career educators who become reflective practitioners, goal oriented professionals, and effective pedagogues who are skilled in research based instruction and assessment strategies. The department seeks to prepare teacher candidates to become critical thinkers who teach from multicultural and global perspectives and model best teaching practices. Experiences are provided in academic programs which allow teacher candidates to demonstrate their knowledge, skills, and dispositions by integrating a

variety of instructional learning and problem solving strategies that facilitate an understanding of children's uniqueness, while promoting learner participation within the world-wide web of information. Such experiences result in meaningful and experiential learning outcomes for all candidates.

Our programs are accredited by the National Council for Accreditation of Teacher Education (NCATE); that accrediting has now become the Council for the Accreditation of Educational Programs (CAEP).

### Teacher Certification

This department offers Bachelor of Science degrees in two elementary education programs. One program is designed to prepare candidates for certification as teachers in grades 1-5. The second elementary education program-Special Education Mild/Moderate: An Integrated to Merged Approach (Grades 1-5) prepares candidates for certification in regular grades 1-5 as well as special education grades 1-5.

In addition to elementary programs, the department offers a Bachelor of Science degree in middle school education-Special Education Mild/Moderate: An Integrated to Merged Approach (Grades 4-8). Teacher candidates completing the above program are certified and qualified for teaching grades 4-8 in both regular and special education classes.

The Department of Curriculum and Instruction also offers minor concentrations that lead to secondary teaching certifications. These concentrations are designed to prepare teacher candidates for certification in grades 6-12 and K-12 (music) in one or more of the following specialty areas:

- Bachelor of Arts in English with teacher certification
- Bachelor of Arts in History with teacher certification
- Bachelor of Music (vocal or instrumental) with teacher certification
- Bachelor of Science in Biology with teacher certification
- Bachelor of Science in Chemistry with teacher certification
- Bachelor of Science in Physics with teacher certification
- Bachelor of Science in Mathematics with teacher certification

## BACHELOR OF SCIENCE IN ELEMENTARY EDUCATION (GRADES 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 224	3	American History	HIST 225	3
Seminar in Education	CRIN 205	3	Principles of Education	CRIN 211	3
Principles of Health or 2 P.E. Courses	HLTH 110 PHED	2	*MST 224/225 May be taken in lieu of 104/105 & 114/115.		
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>16</b>

*Requirement: Praxis I Core Academic Skills (Reading, Mathematics, Writing)*

### SOPHOMORE YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
General Chemistry	CHEM 128	3	Physical Science	PHYS 101/102	4
Survey of Students with	SPED 299	3	Informal Geometry	MATH 205	3



Disabilities			Introduction to Sociology	SOCL 210	3
World Literature	ENGL 201	3	African American Literature	ENGL 203	3
Concepts of Elem. Math	MATH 204	3	Child Psychology for Teachers	BHVS 230	3
Educ. Psych. for Teachers	BHVS 220	3			
Understanding of Arts	ARTS 200	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.
Introduction to Philosophy or Introduction to Logic	PHIL 200 PHIL 210	3	Classroom Management for Teachers	CRIN 328	3
Louisiana History	HIST 230	3	Elem. Soc. Stud. Methods	CRIN 330	3
Multicultural Education	CRIN 323	3	Elem. Reading Methods	CRIN 337	3
Art in the Elem. School	CRIN 315	3	Practicum in Reading	CRIN 353	3
Diagnosis and Correction of Reading Difficulties	CRIN 349	3	Methods in Elem. & Sec. Phys. Ed.	PHED 443	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

*Requirement: Principles of Learning and Teaching & Content Examinations)*

### SENIOR YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course No.		
Math for Elem. Teacher	CRIN 329	3	<b>Pass the following prior to student teaching:</b> Praxis II (Content Area: Elementary 5018)		
Elem. Mathematics Methods	CRIN 33	3	Writing Proficiency		
Language Arts Meth.	CRIN 331	3	Oral Proficiency		
Elem. Science Methods	CRIN 33	3	Service Learning		0-3
Math Activities for Elem. School Teachers	CRIN 357	3	Student Teaching	CRIN 443	9
Evaluation Procedures	CRIN 402	3	Student Teaching Seminar	CRIN 449	0
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>12</b>

## 108 SOUTHERN UNIVERSITY

### BACHELOR OF ARTS (SPECIAL EDUCATION MILD/MODERATE INTEGRATED TO MERGED APPROACH, GRADES 1-5)

#### FRESHMAN YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
English Composition	ENGL 110	3	English Composition	ENGL 111	3

#### SOUTHERN UNIVERSITY 109

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
History Elective	HIST _____	3	History Elective	HIST _____	3
Seminar in Education	CRIN 205	2	Principles of Education	CRIN 211	3
Principles of Health or 2 PHED Activities	HLTH 110 PHED	2			

**TOTAL****17 TOTAL****16***Requirement: PRAXIS I Core Academic Skills (Reading, Mathematics, Writing)***SOPHOMORE YEAR****FIRST SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
General Chemistry	CHEM 128	3
Survey of Students with Disabilities	SPED 299	3
Principles of Geography	GEOG 221	3
African American Literature	ENGL 203	3
Educ. Psych. for Teachers	BHVS 220	3
<b>TOTAL</b>		<b>15</b>

**SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Physical Science	PHYS 101/102	4
Informal Geometry	MATH 205	3
Introduction to Sociology	SOCL 210	3
Concepts of Elem. Math	MATH 204	3
Child Psychology for Teachers	BHVS 230	3
World Literature	ENGL 201	3
<b>TOTAL</b>		<b>19</b>

**JUNIOR YEAR****FIRST SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Characteristics of Learners w M/M Disabilities	SPED 301	3
Multicultural Education	CRIR 323	3
Reading in the Cont. Areas for Elem./Middle Sch. Std. w M/M Dis.	SPED 406	3
Elem. Soc. Stud. Methods	CRIN 330	3
Elem. Reading Methods	CRIN 337	3
Diagnosis and Correction of Reading Difficulties	CRIN 349	3
<b>TOTAL</b>		<b>18</b>

**SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Understanding/Interpreting Assess. Data for Inst. Planning	SPED 306	3
Tch. Core Content to Stud. w Special Needs in Elem./Middle Sch. Inclusive Classroom	SPED 405	3
Practicum in Reading	CRIN 353	3
Elem. Language Arts Meth.	CRIN 331	3
Fundamentals of Music	MUSC 327	3
<b>TOTAL</b>		<b>15</b>

*Requirement: PRAXIS II (\*Content Examination & Principles of Learning/Teaching Examination)***SENIOR YEAR****FIRST SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Math for Early Childhood & Elementary Teachers	CRIN 329	3
Elem. Mathematics Methods	CRIN 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>15</b>

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
<b>Pass the following tests before student teaching:</b>		
Praxis II ( *Content/ Elementary Education & PLT)	5018	
Writing Proficiency		
Oral Proficiency		
Service Learning		0-3

**SECOND SEMESTER**

Student Teaching	CRIN 443	9
Student Teaching Seminar	CRIN 449	0
<b>TOTAL</b>		<b>12</b>

**BACHELORS OF SCIENCE GENERAL SPECIAL EDUCATION MILD/MODERATE:  
AN INTEGRATED TO MERGED APPROACH-GRADES 4-8**

**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		History Elective	HIST _____	
or US History	HIST 224	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 2 Physical Ed. Activity	HLTH 110 PHED	2	Principles of Geography	GEOG 221	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>19</b>

**PRAXIS I (Core Academic Skills—Reading, Mathematics, Writing)**

**SOPHOMORE YEAR**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
General Chemistry	CHEM132	3	Informal Geometry	MATH 205	3
Earth Science	PHYS 201/202	4	Louisiana History	HIST 230	3
Concepts of Elem. Math	MATH 204	3			
Physical Science	PHYS 101/102	4	World Literature	ENGL 201	3
Educ. Psych for Teachers	BHVS 220		Adols. Psy. for Teachers	BHVS 240	3
			Survey of Students/w Disabilities	SPED 299	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>18</b>

**Requirement: PI, T (Grades 4-8): 0622 or 5622**

**JUNIOR YEAR**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Linear Algebra	MATH 233	3	Calculus I	MATH 264	4
Applied English Grammar	ENGL 305	3	Diag. & Corr. Of Reading	CRIN 349	3
Character. of Learners with Mild/Mod. Disabilities	SPED 301		Under. & Inter. Assess. Data	SPED 306	3
Teach Core Concepts	SPED 405				
			Read. In Content Area for Elem & Middle.	SPED 406	3
Middle Sch. Read. Meth.	CRIN 347		Principles of Teaching & Learning in Elem/Middle	SPED 210	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.
Teach PreVocational Skills					
Mild and Moderate Learners	SPED 418	3	Observation of Stu. Teachers in Middle School	CRIN 445	3
Middle Sch. Math Methods	CRIN 345	3	Student Teaching Seminar	CRIN 449	3
Multicultural Education	CRIR 323	3			

Pass the following test before student teaching:

Middle Sch. Sci. Methods	CRIN 346	3	Writing Proficiency	0
Class. Man. for Stud. w/& w/o Disabilities.	SPED 408	3	Oral Proficiency	0
			Service Learning	0-3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>	<b>6-9</b>

**BACHELORS IN INTERDISCIPLINARY STUDIES****CONCENTRATION AREA: ARTS MANAGEMENT AND TECHNOLOGY**

General Education Requirements	Hrs Req.
English .....	6
Mathematics .....	6
Natural Sciences .....	10
Fine Arts .....	3
Humanities .....	9
Behavioral/Social Sciences .....	6
Literature .....	3
Total	43 Hrs.

**Interdisciplinary Studies Degree Requirements for all Candidates (5 Hrs.)**

Freshman Studies (FRMN 110 & 111) Seminar in Education (CRIN 205) .....	2
Service Learning (SVLR 400) .....	3
Introductory Seminar Meeting Date: .....	0
Capstone Seminar (Research Project) Meeting Dates: .....	0
Pass Writing and Oral Proficiency Examinations .....	0

**Electives and Prerequisites****(may be selected from courses below or approved 200 Level Courses) 12 hours**

Techniques of Speech (SPTH 210)	Survey of the World (ARTS 210)
Programming I (CMPS 190)	Understanding the Arts (ARTS 200)

**Pre-set Concentration (60 Hrs.)**

(Forty-five (45) of the hours shall be 300-400 level courses, with at least fifteen (15) of these at the 400 level.)

**Pre-set Concentration Courses (200-400 Level Courses)****Hrs. Required**

Courses selected from Computer Science .....	15
Courses selected from the area of Fine Arts (Music, Visual Arts, Applied Arts, Theatre, and Dance) .....	15
Courses selected from the area of Humanities (Literature, Foreign Languages, History, Classical Studies, Communications and Philosophy) .....	15
Courses selected from the areas of Social/Behavioral Sciences (Anthropology, Criminal Justice, Economics, Geography, International Studies, Interdisciplinary, Political Science, Psychology, Sociology) .....	15

**\*Equivalent courses may be substituted upon approval of advisor.**

**Concentration Area: Community and Human Services**

General Education Requirements	Hrs.Req.
English .....	6
Mathematics .....	6
Natural Sciences .....	10
Fine Arts .....	3
Humanities .....	9
Behavioral/Social Sciences .....	6
Literature .....	3
Total:	43 Hrs.

**Interdisciplinary Studies Degree Requirements for all Candidates (5Hrs.)**

Freshman Studies (FRMN 110 & 111) Seminar in Education (CRIN 205) .....	2
Service Learning (SVLR 400) .....	3
Introductory Seminar Meeting Date:.....	0
Capstone Seminar (Research Project) Meeting Dates: .....	0
Pass Writing and Oral Proficiency Examinations.....	0

**Electives and Prerequisites (12 Hours Required)****(May be selected from courses below or approved 200 Level Courses)**

Principles of Education (CRIN 211)	Educational Psychology (BHVS 220)
Survey of Students with Special Needs (SPED)299	Orientation to Family and Consumer Sciences (FCSC 140)

**Pre-set Concentration (60 Hrs.)**

(Forty-five (45) of the hours shall be 300-400 level courses, with at least fifteen (15) of these at the 400 level.)

**Pre-set Concentration Courses (200-400 Level Courses)****Hrs. Required**

Courses selected from the area of Education (Health, Physical .....	12
Education, TR)	
Courses selected from the area of Family and Consumer Sciences.....	3
Courses selected from the area of Humanities (Literature, Foreign .....	18
Languages, History, Classical Studies, Communications and Philosophy)	
Courses selected from the are of Fine Arts (Music, Visual Arts, Applied.....	12
Arts, Theatre, and Dance)	
Courses selected from the areas of Social/Behavioral Sciences .....	15
(Anthropology, Criminal Justice, Economics, Geography, International Studies, Interdisciplinary, Political Science, Psychology, Sociology)	

\*Equivalent courses may be substituted upon approval of advisor.

**Concentration Area: Applied Science and Technology**

General Education Requirements	Hrs.Req.
English.....	6
Mathematics .....	6
Natural Sciences .....	10
Fine Arts .....	3
Humanities.....	9
Behavioral/Social Sciences.....	6
Literature .....	3
Total:	43 Hrs.

**Interdisciplinary Studies Degree Requirements for all Candidates (5Hrs.)**

Freshman Studies (FRMN 110 & 111) Seminar in Education (CRIN 205).....	2
Service Learning (SVLR 400) .....	3
Introductory Seminar Meeting Date:.....	0
Capstone Seminar (Research Project) Meeting Dates: .....	0
Pass Writing and Oral Proficiency Examinations.....	0

**Electives and Prerequisites****(may be selected from courses below or approved 100-200 Level Courses) 12 hours**

Programming I (CMPS 190)	Programming II (CMPS 191)
General Chemistry Lec/Lab (CHEM 132/112)	General Chemistry Lec./Lab (CHEM 133/113)

**Pre-set Concentration (60 Hrs.)**

(Forty-five (45) of the hours shall be 300-400 level courses, with at least fifteen (15) of these at the 400 level.)

Pre-set Concentration Courses (200-400 Level Courses) .....	.60 Hrs.Required
Courses selected from the area of Applied Sciences.....	15
Courses selected from the area of Technology .....	15
Courses selected from the area of Humanities (Literature, Foreign Languages, History, Classical Studies, Communications and Philosophy).....	12
Courses selected from the area of Fine Arts (Music, Visual Arts, Applied Arts, Theatre, and Dance) .....	9
Courses selected from the areas of Social/Behavioral Sciences.....	9
(Anthropology, Criminal Justice, Economics, Geography, International Studies, Interdisciplinary, Political Science, Psychology, Sociology)	

\*Equivalent courses may be substituted upon approval of advisor.

**Concentration Area: Global Leadership and International Studies**

General Education Requirements	Hrs Req.
English.....	6
Mathematics .....	6
Natural Sciences .....	10
Fine Arts .....	3
Humanities.....	9
Behavioral/Social Sciences.....	6
Literature .....	3
Total:	43 Hrs.

**Interdisciplinary Studies Degree Requirements for all Candidates (5Hrs.)**

Freshman Studies (FRMN 110 & 111) Seminar in Education (CRIN 205) .....	2
Service Learning (SVLR 400) .....	3
Introductory Seminar Meeting Date:.....	0
Capstone Seminar (Research Project) Meeting Dates: .....	0
Pass Writing and Oral Proficiency Examinations.....	0

**Electives and Prerequisites**

(may be selected from courses below or approved 100-200 Level Courses) 12 hours

American Government (POLS 200)	Intro. to Pol. Science (POLS 220)
Intro. to Sociology (SOCL 210)	Principles of Econ. I (ECON 200)

Pre-set Concentration Courses (200-400 Level Courses) .....	.60 Hrs.Required (Forty-five of the hours will be 300-400 level courses, with at least fifteen (15) of these at the 400 level.)
Courses selected from the area of Global Leadership.....	15
Courses selected from the area of International Education.....	15
Courses selected from the area of Humanities (Literature, Foreign Languages, History, Classical Studies, Communications and Philosophy).....	12
Courses selected from the area of Fine Arts (Music, Visual Arts, Applied Arts, Theatre, and Dance) .....	6
Courses selected from the areas of Social/Behavioral Sciences.....	12
(Anthropology, Criminal Justice, Economics, Geography, International Studies, Interdisciplinary, Political Science, Psychology, Sociology)	

\*Equivalent courses may be substituted upon approval of advisor.

**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.** 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 by both the 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.

**Concentration Area: Individualized**

General Education Requirements	Hrs.Req.
English.....	6
Mathematics .....	6
Natural Sciences .....	10
Fine Arts .....	3
Humanities.....	9
Behavioral/Social Sciences.....	6
Literature .....	3
Total:	43 Hrs.

**Interdisciplinary Studies Degree Requirements for all Candidates (5Hrs.)**

Freshman Studies (FRMN 110 & 111) Seminar in Education (CRIN 205).....	2
Service Learning (SVLR 400) .....	3
Introductory Seminar Meeting Date:.....	0
Capstone Seminar (Research Project) Meeting Dates: .....	0
Pass Writing and Oral Proficiency Examinations.....	0

**The following courses in the degree program are negotiated between the student and the academic advisor.**

**Electives and Prerequisites**

<b>Courses</b>	<b>12 Hours Required</b>
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**Pre-set Concentration (60 Hrs.)**

(Forty-five (45) of the hours shall be 300-400 level courses, with at least fifteen (15) of these at the 400 level.) (Courses must be distributed over at least two areas.)

- Pre-set Concentration Courses (300-400 Level Courses) ..... .60 Hrs. required courses selected from the area of Mathematics
- Courses selected from the area of Natural Sciences
- Courses selected from the area of Humanities (Literature, Foreign Languages, History, Classical Studies, Communications and Philosophy
- Courses selected from the area of Fine Arts (Music, Visual Arts, Applied Arts, Theatre, and Dance)
- Courses selected from the areas of Social/Behavioral Sciences (Anthropology, Criminal Justice, Economics, Geography, International Studies, Interdisciplinary, Political Science, Psychology, Sociology)

**Post Baccalaureate Certificates**

Note: Secondary Teachers Certification can be obtained in content area program.





# College of Nursing and Allied Health

## School of Nursing

**Dean:** Janet Rami

**Chair of Undergraduate Program:** Jacqueline J. Hill

**Chair of Graduate Programs:** Cheryl Taylor

**Professors:** Sandra Brown, Janet Rami, and Wanda Spurlock

**Associate Professors:** Joan Ellis, Jacqueline J. Hill, Edna Hull, Cheryl Taylor

**Assistant Professors:** Lewis Blair, Tonda Brown, Kimberly Clark, Sharon Coulter, Leah Cullins, Terrelle Foster, Juanita Garner, Latricia Greggs, Johnette Kay, Gwendolyn Livous, Vinnie Marcell, Diane Matthews, Gordon Natal, Rosalynn Thyssen, Jean Tiner, Antonella Upshaw, Shena Williams, Trudy Williams, Katherine Zeno

**Adjunct Faculty:** Carolyn Lewis Moore, Claudia Robin, Vonda Gaitor Stampley

**Skills Laboratory Coordinator:** Rosalynn Thyssen

**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 four 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, the doctor of philosophy with a major in nursing (PhD) and the doctor of nursing practice (DNP). The school houses two academic departments (graduate and undergraduate), the Office of Nursing Research, the Learning Resource Center, and the Family Health Care Center. 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 Commission on Collegiate Nursing Education (CCNE). For more information, CCNE can be reached at:

**Commission on Collegiate Nursing Education One  
Dupont Circle Northwest Suite 530 Washington,  
D.C. 20036-1120  
(202) 436-6930**

### **BACHELOR OF SCIENCE IN NURSING (BSN)**

The baccalaureate program graduated its first class of 14 students in 1988 and by the end of Spring 2017, the school had over 2,000 BSN graduates. During 2015-2016 over 1,100 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 21 of the last 25 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 Center for Undergraduate Student Achievement (C-USA) 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, 120-hour program, which includes prerequisite nursing courses, University general education requirements, and upper division courses in the nursing major.

## **SOUTHERN UNIVERSITY 139**

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.

## **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

## **140 SOUTHERN UNIVERSITY**

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 120-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

<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
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	Intro to Sociology	SOCL 210	3
General Chemistry Lec.	CHEM 128	3	History	HIST	3
General Chemistry Lab	CHEM 108	1	Human Anatomy & Physiology I	BIOL 238	4
Orientation to Health and					

**SOPHOMORE YEAR****LEVEL I**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Principles/Microbiology Lec/Lab.	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 or; Music or; Humanities		3
Nursing Process I	NURS 200	3			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>15</b>

**JUNIOR YEAR****LEVEL II**

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Health Deviations I*	NURS 304	6	Fund. of Nursing Research	NURS 305	3
Developmental Psyc	PSYC 445	3	Family Development I*	NURS 310	6
English	ENGL	3	Family Development II*	NURS 315	6
FreeElective		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
<b>TOTAL</b>		<b>14</b>	<b>TOTAL</b>		<b>13</b>

\*Courses with clinical component

NOTE: Clinical hours substitute for Community Volunteerism









## Department of Speech Language & Pathology

**Interim Chair:** Dr. Elaine Bremer Lewnau

### Academic Faculty:

**Professors:** Regina Enwefa, Stephen C. Enwefa, Elaine Bremer Lewnau, Marilyn Seibert

**Associate Professor:** Dr. Carolyn Person

**Clinical Faculty:** Ms. Leigh Anne Baker, Director of Clinical Education and Services, SUBR Speech, Language, and Hearing Clinic

**Administrative Assistant:** Ms. Crystal Bobo

The Department offers a program of study leading to the Bachelor of Science Degree in Speech- Language Pathology and Audiology. Students enrolled in this program must complete a total of 122 semester hours, 40 of which must be in speech-language pathology and audiology, including courses in basic speech and language science, audiology, communicative disorders, assessment, and therapeutic intervention. To enhance future career opportunities, the program provides for twelve hours of free electives which students are encouraged to combine with the six hours of required foreign language courses for a total of eighteen hours in a foreign language needed to earn a bilingual certificate in Spanish through the Foreign Language Department.

### BACHELOR OF SCIENCE IN SPEECH-LANGUAGE PATHOLOGY and AUDIOLOGY FRESHMAN YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Biology Lecture/Lab	BIOL 104/5	4	History Sequence		3
History Sequence		3	Anatomy & Physiology	BIOL 223/238	4
MATH 130 or above		3	MATH Above 130		3
Health/PE Activity		2	Freshman Seminar	FRMN 111	1
Freshman Seminar	FRMN 110	1			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>14</b>

### SOPHOMORE YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Phonetics	SPAU 230	3	General Psychology	PSYC 210	3
Speech and Language	SPAU 250	3	Intro to Logic	PHIL 210	3
Foreign Language Sequence		3	Foreign Language Sequence		3
Anat./Ear & Vocal Mech.	SPAU 270	3	American Government	POLS 200	3
Intro to Comm. Dis.	SPAU 260	3	Elem. Statistics	MATH/PSY 274	3
Free Elective		3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>15</b>

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### JUNIOR YEAR

FIRST SEMESTER

SECOND SEMESTER

Course	No.	Cr.	Course	No.	Cr.
Articulation Disorders	SPAU 320	3	Developmental Psychology	PSYC 445	3
Survey of Except. Child	SPED 299	3	Voice Science	SPAU 310	3
Intro to Audiology	SPED 280	3	**Elective		3
Computer Science Elective		3	Language Disorders	SPAU 365	3
Physical Science (Phys/Chem)		4	Aural Rehabilitation	SPAU 345	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>

## SENIOR YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Disorders of Rhythm	SPAU 460	3	Adv. Clinical Practicum	SPAU 469	3
Diagnostic Methods	SPAU 466	3	**Elective		3
Lab in Sp/Lang Pathology	SPAU 467	1	Literature Elective	ENGL	3
**Elective		3	**Elective		3
Language and Culture	SPAU 470	3	Psychology of Learning	PSYC 482	3
<b>TOTAL</b>		<b>13</b>	<b>TOTAL</b>		<b>15</b>

*NOTE: Students who already have a bachelor's degree in a discipline other than SLP & A and are interested in obtaining a second bachelor's degree in speech-language pathology and audiology are directed to the second bachelor's degree curriculum at the department website at [www.subr.edu/speechpathology](http://www.subr.edu/speechpathology). Admission requirements and the program of study for the master's degree in speech-language pathology are located at the same website.*

### Department of Rehabilitation and Disability Studies

**Chair:** Madan Kundu

**Professor:** Madan Kundu

**Associate Professors:** Alo Dutta, Frank Puckett, Carliss

**Washington Assistant Professors:** Ebonee Johnson, Veronica

**Umeasiegbu Administrative Assistant:** Ayanna (Nikki) Wilson

### 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 rehabilitation agencies, community rehabilitation programs, state and local government, insurance and risk management offices, independent living programs, education, other human services fields, and proprietary rehabilitation positions.

### 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 on the current curriculum sheet including a statistics course to be selected from MATH 274, PSYC 274 or SOCL 350.
- Forty-eight semester hours of core courses including Introduction to Rehabilitation REHB 220, Ethics and Case Management REHB 222, Physical and Psychosocial Aspects of Disability I REHB 280, Physical and Psychosocial Aspects of Disability II REHB 281, Principles of Counseling REHB 310, Independent Living REHB 330, Supported Employment REHB 332, Assistive Technology REHB 334, Occupational Information and Job Placement REHB 362, Vocational Evaluation REHB 364, Rehabilitation Research REHB 415, Special Problems and Best Practices in Rehabilitation REHB 420, Pre-Field Experience REHB 494, Field Experience REHB 495, Field Experience REHB 496 and Applied Behavior Analysis PSYC 485.
- Students must pass the departmental comprehensive examination.
- 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 220, Ethics and Case Management 222, Physical and Psychosocial Aspects of Disability I REHB 280, Occupational Information 362, Principles of Counseling 310 and on REHB option to be chosen from REHB 330, 332, 334, or 364.

Students must consult with their advisor on the selection and sequencing of courses.

## **FRESHMAN YEAR**

### **FIRST SEMESTER**

Course	No.	Cr
Freshman Seminar	FRMN 110	1
Freshman Composition	ENGL110	3
Mathematics 130 or higher	MATH	3
History of Civilization	HIST 114	3
General Biology or Higher	BIOL 104/106	3/1
Principles of Health/PE	HLTH 110 or 2 PHEDs	2/1/1
<b>TOTAL</b>		<b>16</b>

### **SECOND SEMESTER**

Course	No.	Cr
Freshman Seminar	FRMN 111	1
Freshman Composition	ENGL 111	3
Mathematics 131 or higher	MATH	3
History of Civilization	HIST 115	3
Computer Science	CMPS 105/290	3
Science Elective		3
<b>TOTAL</b>		<b>16</b>

## **SOPHOMORE YEAR**

### **FIRST SEMESTER**

Course	No.	Cr
Intro to Rehab	REHB 220	3
Phys/Psy Aspects I	REHB 280	3
Science Elective		3
Foreign Language 100		3
Social Science Elective		3
<b>TOTAL</b>		<b>15</b>

### **SECOND SEMESTER**

Course	No.	Cr
Ethics/Case Management	REHB 222	3
Phy/Psy Aspects II	REHB 281	3
Principles of Counseling	REHB 310	3
Foreign Language 101		3

Humanities Elective  
**TOTAL**

3  
**15**

## **JUNIOR YEAR**

### **FIRST SEMESTER**

Course	No.	Cr
Vocational Evaluation	REHB 364	3
Assistive Technology	REHB 334	3
Occupational Information	REHB 362	3
Social Science Elective		3
Literature Elective	ENGL201-204	3
<b>TOTAL</b>		<b>15</b>

### **SECOND SEMESTER**

Course	No.	Cr
Supported Employment	REHB 332	3
Independent Living	REHB 330	3
ARTS Elective		3
PreField Experience	REHB494	3
Free Elective		3
<b>TOTAL</b>		<b>15</b>

## **SENIOR YEAR**

### **FIRST SEMESTER**

Course	No.	Cr
Field Experience	REHB 494	3
Rehabilitation Research	REHB 415	3
Applied Beh or Learning	PSYC 485 or 482	3
Free Electives		3
African Amer Exp		3
Dept Comp		0
<b>TOTAL</b>		<b>15</b>

### **SECOND SEMESTER**

Course	No.	Cr
Field Experience	REHB 496	3
Special Probs/Best Practs	REHB 420	3
Service Learning	REHB 400	3
Free Elective		4
<b>TOTAL</b>		<b>13</b>

## Department of Therapeutic Recreation & Leisure Studies

**Coordinator:** Kathryn Cage Jones

### FACULTY

**Professors:** Kathryn C. Jones., CTRS, Ph.D., Patricia Melson

Therapeutic Recreation also known as Recreational Therapy, is a skilled therapy provided active treatment, is an allied health profession that uses a systematic process utilizing recreation and other activity-based interventions. Recreation therapy address the assessed needs of individuals with illnesses and/or disabling conditions, as a means to psychological and physical health, recovery and well- being. The program offers a Master's of Science Degree in Therapeutic Recreation. Upon completion of the curriculum, students apply to take a national certification examination.

### Recreational Therapy Program Admissions Process

Students may apply for admission to the major at anytime after becoming a student at SUBR. Admission to the Bachelor of Science degree in Recreational Therapy requires completion of the application for new majors. The recreational therapy admission application includes development of a strategic plan for undergraduate studies in recreational therapy and a submission of a reflective essay on why the applicant is choosing to study recreational therapy.

### Goal Statements:

- I. Development of professional competency as defined by the American Therapeutic Recreation Association and the National Council for Therapeutic Recreation Certification
- II. Development of oral, written, and electronic communication skills
- III. Development of professional clinical skills

### Employment Characteristic

In clinical settings, such as hospitals, psychiatric or skilled nursing facilities, substance abuse programs, and rehabilitation centers, recreational therapists treat and rehabilitate individuals with specific medical, social, and behavioral problems, usually in cooperation with physicians; nurses; psychologists; social workers; and speech, physical, and occupational therapists. In long-term, continuing care or residential facilities, recreational therapists may be involved in providing treatment as well as activities designed to maintain functioning and enhance the life quality of residents. In community settings, therapeutic recreation specialists work in adult care, outpatient programming, adaptive sports and recreation programs, home health, private consulting, developmental disabilities services, and other health and human services.

# BACHELORS OF SCIENCE IN THERAPEUTIC RECREATION & LEISURE

## STUDIES FRESHMAN YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
English Composition	ENGL110	3	English Composition	ENGL111	3
Science	Bio 238	4	Science	Bio 239	4
Math Elective	MATH	3	Math Elective	MATH	3
*History Sequence	HIST	3	*History Sequence	HIST	3
Freshman Studies	FRMN 110	1	Freshman Studies	FRMN 111	1
**Wellness Elective		2	Intro to Sociology	SOCL 210	3
*HIST 104 & 105					
OR					
HIST 114 & HIST 115					
**First Aid or 2 (1) hour					
PHED Activity Electives		16	<b>TOTAL</b>		<b>17</b>
<b>TOTAL</b>					

## SOPHOMORE YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr	Course	No.	Cr.
Intro to Leisure	TRLS 200	3	Legal Foun. Of Leisure	TRLS 241	3
Intro to TR	TRLS 202	3	TR Intervention Strategies	TRLS 293	3
Phy. SCIEN ELEC Elective		4	Foreign Lang Elective		3
ENGL	ENGL203	3	PHIL ELECTIVE	PHIL	3
Gen Psychology	PSYCH210	3	ART ELECTIVE	ART	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.
Developmental Psych	Psych 445	3	Abnormal Psych	PSYCHS 468	3
Recreation Leadership	TRLS300	3	Recreation Skills	TRLS340	3
Inclusive Rec	TRLS302	3	Rec and Area Facilities	TRLS 4043	3
Gen Rec Prog	TRLS 301	3	Management of Rec	TRLS 4023	3
TR Program Planning	TRLS304	3	FieldWork	TRLS311	3
Pre-Field Work Semini	TRLS310	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.
Org & Adm of Aquatics	TRLS409	3	Senior Internship	TRLS411	9
Dept Comp	RLS000	0			
Camp Counseling	TRLS401	3	Professional Issues	TRLS412	3
Outdoor Rec	TRLS403	3			
Client Assessment	TRLS356	3			
<b>TOTAL</b>		<b>12</b>	<b>TOTAL</b>		<b>12</b>
Writing Proficiency	0		Concurrent requirement with English 111		
African American Experience	0		Can be met through elective in course already required.		
Service Learning	0		Consult with advisor		

**TOTAL HOURS 121**

**\*\* Indicate options for hours to be taken**







## College of Sciences and Engineering

Dean:	<b>Patrick Carriere</b>
Associate Dean of Research, Graduate Programs	<b>Patrick F. Mensah, Sr.</b>
Associate Dean for Academic Affairs:	<b>Rachel E. Vincent-Finley</b>
Outreach Director:	<b>Edgar Blevins</b>
Recruitment Director:	<b>Nathaniel Denu</b>
Retention Director:	<b>Karen Crosby</b>
Assistants to the Dean:	<b>Janifer Peters, Preston H. White</b>
Director of Computing and Networking:	<b>Jason Chang</b>
Administrative Assistants:	<b>Christina Crump, Dorothy Brandon</b>

The College of Sciences and Engineering provides a liberal education in the sciences through course offerings to majors and non-majors, and 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. The College seeks to improve the scientific literacy of all students enrolled in the University. 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 innovations. The College maintains an atmosphere that enhances students' ability to achieve an optimum learning experience. Furthermore, through its vast alliances across academic institutions, corporate affiliates, and government relationships, the College fosters a rich environment for post-graduate employment, graduate study, entrepreneurial engagement, and unlimited professional success.

The goals of the College of Sciences and Engineering, 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.

The College of Sciences and Engineering offers four-year programs in biology, chemistry, mathematics and physics (with a concentration in mathematics or physics), civil engineering, computer science, 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 also leading to a Bachelor of Science degree. Through the Southern University Department of Biological Sciences and Chemistry, students may pursue a dual degree in chemistry and chemical engineering in collaboration with Louisiana State University, Baton Rouge.

The College of Sciences and Engineering has programs leading to Master of Science degrees in biology, computer science and mathematics and physics and a program leading to a Master of Engineering degree. The College also offers Doctoral degrees in Environmental Toxicology and Science/Mathematics Education. Persons desiring to know more about graduate programs in the College should consult the Southern University Graduate Catalog.

Scholarships in the College of Sciences and Engineering are supported by foundations, industry, governmental agencies, and private contributions. The most beneficial aspect of the scholarship program is the opportunity it gives students to pursue academic 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 are required to obtain and retain all scholarships.

The civil, electrical, and mechanical engineering programs are accredited by the Engineering Accreditation Commission (EAC) of ABET, the computer science program is accredited by the Computing Accreditation Commission (CAC), and the electronics engineering technology program is accredited by the Technology Accreditation Commission (TAC) of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012- Telephone: (410)347-7700.

## ADMISSION REQUIREMENTS

Admission to the College of Sciences and Engineering (CSE) is open to students who have successfully earned 37 or more credit hours and meet the requirements listed below. Applicants who partially satisfy the requirements listed below, and have not adequately passed all courses, may 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 within one year.

To be admitted to the CSE, prospective students must have earned a “C” or better in each of the courses listed below the selected major, and pass the University Writing Proficiency Examination.

- **biological sciences** students  
ENGL 110/111-Freshman Composition  
MATH 140 – Pre-Calculus II  
CHEM 112/132 - General Chemistry I  
PHYS 141 – Elements of Physics I
- **chemistry** students  
ENGL 110/111-Freshman Composition  
MATH 264 - Calculus I  
CHEM 112/132 - General Chemistry I  
PHYS 221/223 - General Physics I
- **mathematics and physics** students  
ENGL 110/111-Freshman Composition  
MATH 264 - Calculus I  
MATH 265 – Calculus II  
BIOL 104/106 – General Biology I **or** CHEM 112/132 – General Chemistry I
- **computer science** students  
ENGL 110/111-Freshman Composition  
MATH 264 - Calculus I  
CMPS 110 – Computer Science Seminar I  
CMPS 111 – Computer Science Seminar II  
CMPS 190 – Modular Programming I  
CMPS 191 – Modular Programming II
- **engineering** students  
ENGL 110/111-Freshman Composition  
MATH 264 - Calculus I  
CHEM 112/132 - General Chemistry I  
PHYS 221/223 - General Physics I  
ENGR 120 - Freshman Engineering I  
ENGR 130 - Freshman Engineering II
- **electronics engineering technology** students  
ENGL 110/111-Freshman Composition  
MATH 135 - Pre-Calculus I  
CHEM 112/132 - General Chemistry I  
PHYS 141 - Elements of Physics  
ENGR 120 - Freshman Engineering I



## **Transfers from Other Areas of the University**

Students transferring from other colleges at the University must meet the same above requirements. Transfer 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 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 enrolled in the College of Sciences and Engineering must successfully complete an approved program of study of 120 credit hours for sciences, 128 credit hours for engineering, and 124 credit hours for electronics engineering technology with a minimum overall GPA of 2.0/4.0 to earn an undergraduate degree. These credits include the general education components of the University General Education Program of Excellence and the core courses of the applicable major area.

Students are expected to earn a grade of “C” or higher in the core courses in the major and all major courses (the section “Baccalaureate Degree Requirements” for details). Students must also pass a departmental comprehensive examination and the University Writing Proficiency Examination. Engineering students are also encouraged to take the Fundamentals of Engineering (FE) examination before completing all engineering degree requirements.

## GENERAL EDUCATION REQUIREMENTS

Students must complete general education requirements, including the African-American experience and community service, as outlined in the section “University General Education Program of Excellence” in this catalog.

### **English Composition and Literature** .....9 Hours

Six hours or course work in Freshman Composition (ENGL 110 and 111) plus three hours of literature to be selected from ENGL 201, 203, 204, 205, or an appropriate higher-level literature course.

### **Arts** .....3 Hours

Three hours of course work in the Arts are 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); or speech & theater (SPTH 360).

### **Health or Physical Education** .....2 Hours

Two hours of course work are required in physical education or health and may be selected from the following series of courses: physical education (PHED 100-250); or health (HLTH 110-365).

### **Social Science** .....6 Hours

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); or psychology (PSYC 210, 315, 350).

### **Humanities**

#### *Science majors*.....9 Hours

Six hours of course work must be history courses (HIST 114, 115, 230, 311, 399, 401, 410, 463, 486).

Additionally, each science major must complete three semester hours to be selected from PHIL 200, 210 or HUMN 241, 242, 244, and 366.

#### *Engineering majors*.....6 Hours

Six hours of course work must be history courses (HIST 114, 115, 230, 311, 399, 401, 410, 463, 486).

### **Foreign Language** (*Science majors only*).....6 Hours

Science majors may choose French, German, or Spanish. It is mandatory that the six semester hours be completed in the same language.

### **Mathematics** .....6 Hours

All undergraduate program degree requirements in the College of Sciences and Engineering exceed the mathematics general education requirement. Please see selected program for specific mathematics requirements.

### **Natural Science** .....9 Hours

All undergraduate program degree requirements in the College of Sciences and Engineering exceed the natural science general education requirement. Please see selected program for specific natural science requirements.

#### ADDITIONAL UNIVERSITY GRADUATION REQUIREMENTS

In addition to college requirements, all University students must complete Freshman Seminar FRMN 110 and 111, a community service requirement, an African-American experience, the University Writing Proficiency Examination, and a program comprehensive examination. Further students must exhibit computer literacy.

##### **Freshman Seminar**

To meet graduation requirements, students must take freshman seminar or its equivalent during the first year of matriculation at Southern University. 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.

##### **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 – a community service requirement – as one of the requirements for graduation.

##### **African-American Experience**

Three hours of course work are 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; or SPTH 399. Taking any of these courses will also satisfy the African-American experience.

##### **University Writing Proficiency Examination**

The Writing Proficiency Examination must be satisfactorily completed as part of the English 111 course. Students must pass this course with a grade of “C” or better.

##### **Comprehensive Examinations**

Each College of Sciences and Engineering student must complete comprehensive examinations as a graduation requirement. Please visit your program office for details on the protocol for preparation and administration of departmental comprehensive examinations.

##### **Computer Literacy**

Computer literacy may be established by examination, through a computer application or technology based course in an academic program, or by an approved substitute (not more than five years old).

For additional details, consult the section “University General Education Program of Excellence” in this catalog.

#### **COOPERATIVE WORK/STUDY (CO-OP) PROGRAM FOR ENGINEERING MAJORS**

The Southern University administration believes that a college education should include one or more professional experiences. The College 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.

Differences between CO-OP and Non CO-OP Options: The College has held in almost all cases that engineering 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 Department Chair must approve the proposed CO-OP assignment before the work is performed. The College prefers that engineering 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. However, a CO-OP experience is not a requirement for graduation.

The essential elements of the CO-OP program include the following:

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. Involvement of junior-level engineering science principles and project design components are expected in the CO-OP student's work. The participating employers will submit a student's work performance evaluation to the university.

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 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 the College of Sciences and Engineering must give final approval of the assigned credit.

## **Department of Biological Sciences and Chemistry**

### **Biological Sciences Program**

**Chair:** Eduardo Martinez-Ceballos

**Program Leader:** Eduardo Martinez-Ceballos

**Professors:** Pushpa Samkutty, Oswald D'Auvergne

**Professor Emeritus:** George Williams

**Associate Professors:** Willis H. Jacob, Eduardo Martinez-Ceballos, Yetunde Ogunkoya, Bryan Rogers, Caroline Telles, Alice Ward-Johnson

**Assistant Professors:** Deidra Atkins-Ball, Andrea G. Poole

**Instructors:** Sheriva Singleton Taylor, Tanganika Johnson

**Technicians:** Mary Beals, Masomehbibi Fatemi

The Program of Biological Sciences offers a single degree, a Bachelor of Science degree, at the undergraduate level. The primary role and commitment of the program is to provide a superior program of instruction that relates to the study of the various aspects of life processes.

After completing 29 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 program 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 program also offers a Master of Science degree in biology. Information about the graduate pro-gram may be found in the Southern University Graduate School Catalog.

## **BIOLOGICAL SCIENCES PROGRAM EDUCATIONAL OBJECTIVES (PEO)**

The biological sciences curriculum at Southern University is dedicated to preparing students for productive careers in the state, nation, and the world. Graduates of the biological sciences program will:

PEO-1: Understand the fundamental scientific principles, concepts and applications of biological concepts to science, engineering and technology.

PEO-2: Be prepared for graduate studies in biological sciences or related areas or for professional areas including medicine, dentistry, veterinary medicine, pharmacy and teaching biology.

PEO-3: Become effective collaborators and innovators, leading or participating in efforts to address social, technical and business challenges in a professional and ethical manner.

## **CORE MATHEMATICS AND SCIENCE COURSES REQUIREMENTS FOR THE BIOLOGICAL SCIENCES PROGRAM**

All biology majors must earn a “C” or better in all required and elective courses taken in biology, chemistry, mathematics and physics. Students must also meet all requirements for the college and the University.

## **DEGREE REQUIREMENTS**

Students enrolled in the biological sciences program must successfully complete an approved program of study of 120 credit hours.

## **BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES**

### **FRESHMAN YEAR**

#### **FIRST SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Gen. Biology	BIOL 108	4
Gen. Chemistry Lecture	CHEM 132	3
Gen. Chemistry Lab.	CHEM 112	1
Pre-Calculus Math II	MATH 140	3
Freshman Comp.	ENGL 110	3
Freshman Seminar	FRMN 110	1

#### **SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Gen. Biology	BIO 109	4
Gen. Chemistry Lec.	CHEM 133	3
Gen. Chemistry Lab.	CHEM 113	1
Calculus I	MATH 264	4
Freshman Comp.	ENGL111	3
Freshman Seminar	FRMN 111	1

**TOTAL**

**15 TOTAL**

**16**

### **SOPHOMORE YEAR**

#### **FIRST SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
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#### **SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
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Org. Chem. Lecture 231	3	CHEM 230	3	Org. Chem. Lecture	CHEM
Org. Chem. Lab 221	2	CHEM 220	1	Org. Chem. Lab	CHEM
Elements of Physics 142	4	PHYS 141	4	Elements of Physics	PHYS
Gen. Microbiology 210	3	BIOL 232	4	Psychology	PSYC
Computer Appl. 203	3	CMPS 290	3	Literature Elective	ENGL
<b>TOTAL</b>			<b>15</b>	<b>TOTAL</b>	
<b>15</b>					

### JUNIOR YEAR

#### FIRST SEMESTER

Course	No.	Cr.	Course	No.	Cr.
Gen. Biochem. Lecture	CHEM 340	3	Biology Elective*	BIOL 4	
Gen. Biochem. Lab	CHEM 342	1	Biology Elective*	BIOL 4	
Genetics	BIOL 350	4	History Elective	HIST 3	
Biology Elective*	BIOL	4	Health/Physical Ed Elective	HLTH/PHED	
					2
Foreign Language Sequence I		3	Foreign Language Sequence II	3	
Principles of Research	BIOL 300	1			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>17</b>

### SENIOR YEAR

#### FIRST SEMESTER

Course	No.	Cr.	Course	No.	Cr.
Cell & Molec.	BIOL 402	4	Physiology Electives**	BIOL 4	
Seminar	BIOL 403	1	Biostatistics	BIOL 409	3
History Elective	HIST	3	Social Science Elective	3	
Humanities Elective		3	Art Elective	3	
Service Learning	SVLR 400	3			
<b>TOTAL</b>		<b>14</b>	<b>TOTAL</b>		<b>13</b>

\* Biology Elective: Two of the three biology electives must be at the 300 level or above. Biology majors CANNOT use BIOL 104, 105, 107, 223, 230, 231, 238, or 239 for degree credit.

\*\* Physiology Elective: To be selected from BIOL 305, 412, 433, 442

## **BIOLOGICAL SCIENCES ELECTIVE GROUPS**

### **BOTANY ELECTIVE GROUP**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
General Botany	BIOL 209	4
Morphology of Non-Vascular Plants	BIOL 210	4
Morphology of Vascular Plants	BIOL 310	4
Plant Pathology	BIOL 411	4
Plant Physiology	BIOL 412	4

### **MICROBIOLOGY ELECTIVE GROUP**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
Cell and Molecular Biology	BIOL 402	4
Mycology	BIOL 410	4
Pathogenic Microbiology	BIOL 430	4
Immunology	BIOL 432	4
Microbial Physiology	BIOL 433	4
Applied Microbiology	BIOL 434	4
Microbial Genetics	BIOL 450	4
General Virology	BIOL 453	4

### **PHYSIOLOGY ELECTIVE GROUP**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
General Physiology	BIOL 305	4
Vertebrate Histology	BIOL 341	4
Vertebrate Embryology	BIOL 342	4
Animal Physiology	BIOL 442	4

### **GENERAL ELECTIVE GROUP**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
General Zoology	BIOL 201	4
Invertebrate Zoology	BIOL 240	4
Comparative Anatomy	BIOL 241	4
Introductory Parasitology	BIOL 343	4
Introduction to Electron Microscopy	BIOL 401	4
Ecology	BIOL 404	4
Biological Research I	BIOL 436	2
Biological Research II	BIOL 437	2
Special Topics in Biomedical Sciences	BIOL 452	3

### **Requirements for a Biology Minor**

A student may obtain a minor in biology by completing 16 credit hours in biology in addition to BIOL 108 and BIOL 109 (4 credit hours each) for a total of 24 credit hours. The courses that are required to complete the minor must be approved by the department. All biology minors must earn a "C" or better in all required and elective courses taken in biology, chemistry, physics, and mathematics. Students obtaining a minor in biology must also satisfy the requirements of the college and the University.

**Chair:** Eduardo Martinez-Ceballos

**Program Leader:** Edward Doomes

**Professor Emeriti:** Earl Doomes, William Moore, Mildred R. Smalley

**Professors:** Ahmad A. Suleiman, Edwin H. Walker, Jr

**Associate Professor:** Edward Doomes, Conrad Jones

**Assistant Professors:** Derald Chriss, Kinesha Harris, Weihua Wang, Scott A Wicker, Sr.

**Instructors:** Sharon Williams-Chriss

**Technicians:** Gregory Cornell, Angela Hurst

The Chemistry Program offers professional training in chemistry. The Bachelor of Science in Chemistry is American Chemical Society approved curriculum. For students seeking admittance into medical or dental school, the program offers the option of a Bachelor of Science in Chemistry with a concentration in pre-medicine. Courses are also offered for students in allied fields and in general education.

## **CHEMISTRY PROGRAM EDUCATIONAL OBJECTIVES (PEO)**

The chemistry curriculum at Southern University is dedicated to preparing students for productive careers in the state, nation, and the world. Graduates of the chemistry program will:

- PEO-1: Be able to make connections between fundamental chemical phenomena and each of the major chemistry subdisciplines: analytical, biochemistry, organic, inorganic, and physical.
- PEO-2: Be able to conduct independent research using a working knowledge of chemical instrumentation and laboratory techniques.
- PEO-3: Be prepared for graduate studies in chemistry or related areas or for professional areas including medicine, dentistry, and pharmacy.
- PEO-4: Be able to effectively communicate scientific data to chemists and non-chemists in a professional and ethical manner.

## **CHEMISTRY WITH A CONCENTRATION IN PREMEDICINE**

A student may major in chemistry with a concentration in pre-medicine by following the same basic curriculum listed under "CHEMISTRY" while making appropriate course substitutions for those courses denoted by the asterisk\*. Students concentrating in premedicine are required to complete 50 semester hours of chemistry and a minimum of 12 hours of biology.

Specifically, the chemistry major choosing to concentrate in pre-medicine must take General Psychology PSYC 210 (3 hours), Biochemistry Lecture CHEM 341 (3 hours), Biochemistry Laboratory CHEM 343 (1 hour), Comparative Anatomy BIOL 241 (4 hours), an additional biology elective (4 hours), an additional chemistry elective (3 hours), and an additional free elective (1 hour).

## **CHEMISTRY/CHEMICAL ENGINEERING DUAL DEGREE COOPERATIVE OPTION**

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. Students interested in pursuing a Chemistry/Chemical Engineering major should consult the Chemistry Program Leader for information concerning degree requirements.

## **CORE MATHEMATICS AND SCIENCE COURSES REQUIREMENTS FOR THE CHEMISTRY PROGRAM**

All chemistry majors must earn a "C" or better in all required and elective courses taken in chemistry, biology, mathematics, and physics. Students must also meet all requirements for the college and the University.

## DEGREE REQUIREMENTS

Students enrolled in the chemistry program must successfully complete an approved program of study of 120 credit hours.

### BACHELOR OF SCIENCE IN CHEMISTRY

#### FRESHMAN YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Seminar I	FRMN 110	1	Freshman Seminar II	FRMN 111	1
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Calculus I	MATH 264	4	Calculus II	MATH 265	4
Gen. Chemistry Lecture	CHEM 132	3	Gen. Chemistry Lecture	CHEM 133	3
Gen. Chemistry Lab.	CHEM 112	1	Gen. Chemistry	CHEM 113	1
Gen. Physics Lecture	PHYS 221	3	Gen. Physics Lecture	PHYS 222	3
Gen. Physics Lab	PHYS 223	1	Gen. Physics Lab	PHYS 224	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.
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 III*	MATH 364	4	Differential Equations	MATH 370	4
Quantitative Analysis Lec	CHEM 242	3	Humanities Elective		3
Quantitative Analysis Lab	CHEM 243	1	Social Science Elective		3
Literature Elective	ENGL 203	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.
Physical Chem. Lecture	CHEM 312	3	Physical Chem. Lec	CHEM 313	3
Physical Chem. Lab	CHEM 314	1	Physical Chem. Lab	CHEM 315	1
Biochemistry Lecture	CHEM 340	3	Biochemistry Lec	CHEM 341	3
Biochemistry Lab	CHEM 342	1	Biochemistry Lab	CHEM 343	1
Foreign Language Sequence I		3	Foreign Language Sequence II		3
Arts Elective		3	History Elective	HIST	3
<b>TOTAL</b>		<b>14</b>	<b>TOTAL</b>		<b>14</b>

#### SENIOR YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Inorganic Chem. Lecture*	CHEM 443	3	Instrumental Analysis Lec	CHEM 450	4
Inorganic Chem. Lab*	CHEM 440	4	Biology Elective	BIOL	4
Chemical Research I	CHEM 422	2	Chemical Research II	CHEM 423	1
Microcomputers in Chemistry	CHEM 455	3	Chemistry Elective	CHEM	3
History Elective		3	Social Science Elective*		3
Health/Physical Ed Elective	HLTH/PHED	2			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

*\*Students majoring in chemistry with a premedical concentration do not take these courses. They take other program-specified courses in their place. See "Chemistry with a Concentration in Pre-medicine."*

*\*\*\*Six hours must be in the same language. #Electives may not be chosen from 100 or 200 level courses.*

### **Requirements for a Chemistry Minor**

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 minors must earn a "C" or better 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.

**Department of Mathematics and Physics**  
**Concentration in Mathematics**

**Chair:** Terrence Reese

**Program Leader:** Katrina Cunningham

**Professors:** Walfredo Javier, Humberto Munoz-Barona

**Associate Professor:** Rachel Vincent-Finley

**Assistant Professors:** Katrina Cunningham, Kimyata Dilworth, Solomon Idowu, Phyllis Okwan

**Instructors:** Kissie Anderson, Ronald Colman, Christopher Marshall, Kenuatra Smith, Tiffany Vappie, Phaedra Wells

**Director of the Mathematics Lab:** Jessie Foster

**Administrative Assistant:** Paula Turner

The Department of Mathematics and Physics offers a Bachelor of Science degree with a concentration in mathematics that will enable graduates to secure employment or pursue further study and research. The program also offers an undergraduate minor in mathematics, and specialized training for high school and middle school teachers.

Additionally, the program offers a Master of Science Degree in Mathematics and Physics with a concentration in mathematics. Moreover, the program provides graduate courses in Mathematics for students enrolled in the Doctor of Philosophy (Ph.D.) program in Science and Mathematics Education in the event where they do not hold a Master of Science degree in Mathematics and Physics, with a Mathematics concentration, or equivalent. Further information on graduate offerings is available in the Southern University Graduate School Catalog or the Southern University Mathematics web page.

**MATHEMATICS PROGRAM EDUCATIONAL OBJECTIVES (PEO)**

The mathematics curriculum at Southern University is dedicated to preparing students for productive careers in the state, nation, and the world. Graduates of the mathematics program will:

- PEO-1: Understand the fundamental principles, key theories, concepts and methods and their applications to science, engineering and technology, and be able to think critically and apply reasoning to analyze technical problems.
- PEO-2: Be prepared for graduate studies in mathematics and related areas or for other professional areas including teaching mathematics or mathematical sciences.
- PEO-3: Become effective collaborators and innovators, leading or participating in efforts to address social, technical and business challenges in a professional and ethical manner.

**CORE MATHEMATICS AND SCIENCE COURSE REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN MATHEMATICS AND PHYSICS**

All students pursuing the Bachelor of Science degree in Mathematics and Physics must satisfactorily complete the following core courses.

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
Calculus I	MATH 264	4
Calculus II	MATH 265	4
Statistics for the Mathematical Sciences or Eng. Majors	MATH 276	3
Calculus III	MATH 364	4
General Physics I	PHYS 221	3
General Physics I Laboratory	PHYS 223	1
General Physics II	PHYS 222	3
General Physics II Laboratory	PHYS 224	1
Modern Physics	PHYS 271	3

All students pursuing the Bachelor of Science degree in Mathematics and Physics must earn a minimum grade of “C” in all required and elective mathematics and physics courses presented to fulfill the major requirements in the curriculum. Further, students in the Physics concentration must take at least one Mathematics course (3 credit hours) as a free elective. Students must also meet all requirements for the college and the University.

## DEGREE REQUIREMENTS

All Mathematics and Physics majors, with a concentration in Mathematics, must successfully complete an approved program of study of 120 credit hours.

### BACHELOR OF SCIENCE IN MATHEMATICS AND PHYSICS – Concentration 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 Elective	HIST	3	History Elective	HIST	3
Calculus I	MATH 264	4	Calculus II	MATH 265	4
Biology Elective	BIOL	3	Foreign Language Sequence		3
Biology Elective Lab	BIOL	1	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 Sequence II		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	3	General Physics		
			PHYS 222	3	
General Physics (Lab)	PHYS 223	1	General Physics (Lab)		
PHYS 224	1				
Computer Science	CMPS 190	3	Computer Science	CMPS 191	3
Advanced Calculus	MATH 365	3	Free Elective*		
Social Science Elective		3	Humanities Elective		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.
Real Analysis	MATH 462	3	Math Elective**	MATH	3
Math Elective**	MATH	3	Math Elective**	MATH	3
Modern Physics	PHY 271	3	Free Elective*		3

**TOTAL****12 TOTAL****12**

\* At least one free elective will be a three (3) credit Physics course. All others may be selected from mathematics elective groups or in consultation with a mathematics faculty advisor.

\*\* At least one course from each of the mathematics elective group must be selected.

**MATHEMATICS ELECTIVE GROUPS****BLOCK 1 ELECTIVE GROUP**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
Seminar for Actuarial Exam 100	MATH 346	3
History of Mathematics	MATH 401	3
Seminar for Actuarial Exam 110	MATH 446	3
Topics in Geometry	MATH 450	3
Introduction to Point-Set Topology	MATH 492	3
Seminar in Mathematics	MATH 499	1 – 3

**BLOCK 2 ELECTIVE GROUP**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
Elementary Number Theory	MATH 432	3
Linear Algebra	MATH 433	3
Modern Algebra II	MATH 435	3

**BLOCK 3 ELECTIVE GROUP**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
Discrete Mathematics	MATH 379	3
CO-OP for Mathematics Majors	MATH 390	3
Introduction to Complex Variables	MATH 463	3
Differential Equations	MATH 470	3
Boundary Value Problems	MATH 472	3
Numerical Analysis	MATH 474	3
Probability and Statistics I	MATH 475	3
Probability and Statistics II	MATH 476	3
Mathematical Modeling	MATH 477	3

**Requirements for a minor in Mathematics and Physics, with a Mathematics concentration**

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, MATH 264, and MATH 265. MATH 200, MATH 203, MATH 204, MATH 205, MATH 274, MATH 275, and courses numbered 480’s or 580’s, may not be included in the 24 hours for a mathematics minor. All students pursuing a minor in Mathematics and Physics must earn a minimum grade of “C” in all required and elective mathematics courses presented to fulfill the minor requirements.

**Requirements for a minor in Mathematics Education**



The Program offers a Bachelor of Science degree in Mathematics and Physics, with a mathematics concentration, and an Education minor. Students in this option will also enroll in the teacher certification program of the SUBR School of Education in the College of Humanities and Interdisciplinary Studies. Students are urged to consult the Mathematics Program Leader for updates.

## **Department of Mathematics and Physics**

### **Concentration in Physics**

**Chair:** Terrence Reese

**Program Leader:** Terrence Reese

**Professors:** Diola Bagayoko, Rambabu Bobba, Laurence Henry, Pui-Man Lam, Stephen C. McGuire, Terrence Reese, J. Gregory Stacy, Jin Tong Wang, Guanglin Zhao

**Technician:** Yuriy Malozovsky

**Administrative Assistant:** Sheryl Robinson

The Department of Mathematics and Physics provides students with a thorough background in general physics for science or technology majors and provides training in the elements of physics for secondary school science teachers. Mathematics and Physics majors, with a concentration in physics, are provided with a firm, effective foundation for graduate study, a successful career in high technology industries, and for a research career.

The versatility of physics, a foundation to many science, technological, engineering and interdisciplinary fields opens numerous options to a holder of the bachelor's degree in Mathematics and Physics, with a Physics concentration. These 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 materials engineering), medicine (including biophysics), and patent law. Materials science, telecommunications, and many interdisciplinary sciences and technologies rest on physics. Students should consult their program advisors for the selection and proper sequencing of courses.

The program also offers the Master of Science degree in Mathematics and Physics, with a concentration in Physics. Further, it provides graduate courses in Physics for students enrolled in the Doctor of Philosophy (Ph.D.) program in Science and Mathematics Education in the event where they do not hold a Master of Science degree in Mathematics and Physics, with a Physics concentration, or equivalent.

### **PHYSICS PROGRAM EDUCATIONAL OBJECTIVES (PEO)**

The physics curriculum at Southern University is dedicated to preparing students for productive careers in the state, nation, and the world. Graduates of the physics program will:

PEO-1: Understand fundamental concepts and principles of physics, and be able to transfer that knowledge to applications in the discipline and related areas, including engineering and technology.

PEO-2: Be prepared to do graduate studies in physics or related areas, including the physical sciences and physics education.

PEO-3: Be prepared to interact with scholars in the field, to become effective researchers, collaborators and innovators, leading or participating in efforts to address scientific, social, technical and business challenges in a professional and ethical manner.

### **CORE MATHEMATICS AND SCIENCE COURSE REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN MATHEMATICS AND PHYSICS**

All students pursuing the Bachelor of Science degree in Mathematics and Physics must satisfactorily complete the following core courses.

Course Name	Course Number	Credit Hours
Calculus I	MATH 264	4
Calculus II	MATH 265	4
Statistics for the Mathematical Sciences or Eng. Majors	MATH 276	3
Calculus III	MATH 364	4
General Physics I	PHYS 221	3
General Physics I Laboratory	PHYS 223	1
General Physics II	PHYS 222	3
General Physics II Laboratory	PHYS 224	1
Modern Physics	PHYS 271	3

All students pursuing the Bachelor of Science degree in Mathematics and Physics must earn a minimum grade of "C" in all required and elective mathematics and physics courses presented to fulfill the major requirements in the curriculum. Further, students in the Physics concentration must take at least one Mathematics course (3 credit hours) as a free elective. Students must also meet all requirements for the college and the University.

### DEGREE REQUIREMENTS

All Mathematics and Physics majors, with a concentration in Physics, must successfully complete an approved program of study of 120 credit hours.

### BACHELOR OF SCIENCE IN MATHEMATICS AND PHYSICS – Concentration Physics

#### FRESHMAN YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Discovery in Physics	PHYS 145	3	General Physics	PHYS 222	3
Calculus I	MATH 2	4	General Physics II Lab	PHYS 224	1
General Physics I	PHYS 221	3	Calculus II	MATH 265	4
General Physics I Lab	PHYS 223	1	General Chemistry I	CHEM 132	3
Freshman Composition	ENGL 110	3	General Chemistry I Lab	CHEM 112	1
Freshman Seminar	FRMN 110	1	Freshman Composition	ENGL 111	3
Health/PE Activities		2	Freshman Seminar	FRMN 111	
<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 Chem. II	CHEM 133	3	Modern Physics	PHYS 271	
General Chem. II Lab	CHEM 113	1	Mathematical Physics	PHYS 311	3
Calculus III	MATH 364	4	Humanities Elective		
Programming in Physics	PHYS 200	3	History Elective	HIST	
History Elective	HIST	3	General Biology I	BIOL 104	3
Literature Elective	ENGL	3	General Biology I La	BIOL 106	1
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</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	Thermodynamics	PHYS 345	3
Statistics for Sci. & Eng.	MATH 276		3	Adv. E & M Theory I	
PHYS 425		3			
Adv. Math. Physics	PHYS 411	3	Technical Writing	ENGL 362	3
Foreign Language Sequence I		3	Foreign Language Sequence II		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

## SENIOR YEAR

### FIRST SEMESTER

Course	No.	Cr.
Quantum Physics I	PHYS 435	3
Free Elective*		3
Social Science Elective		3
Computational Physics	PHYS 400	3
<b>TOTAL</b>		<b>12</b>

### SECOND SEMESTER

Course	No.	Cr.
Physics Elective**	PHYS	3
Free Elective*		3
Social Science Elective		3
Art Elective		3
<b>TOTAL</b>		<b>12</b>

\* At least one free elective will be a three (3) credit Mathematics course. All others may be selected from physics electives or in consultation with a physics faculty advisor.

\*\* Select from the physics electives.

## PHYSICS ELECTIVES

Course Name	Course Number	Credit Hours
Advanced Mathematical Physics	PHYS 411	3
Advanced Electromagnetic Theory II	PHYS 426	3
Quantum Physics II	PHYS 436	3

### Requirements for a minor in Mathematics and Physics, with a Physics concentration

The minor in Mathematics and Physics, with a Physics concentration, requires at least 22 hours of physics and must include PHYS 221 & 223, 222 & 224, 271, 341, 342, and 345, as well as MATH 264 and 265. All students pursuing a minor in Mathematics and Physics must earn a minimum grade of "C" in all required and elective physics and mathematics courses presented to fulfill the minor requirements. Students must also meet all requirements for the college and the University.

## Department of Computer Science

**Chair:** Ebrahim Khosravi

**Professors:** Shuju Bai, Nigel Gwee, Osman Kandara, Ebrahim Khosravi, Abdus Salam, Sudhir Trivedi

**Associate Professor:** Mathieu Kourouma

**Assistant Professors:** Marilyn Antoine, Lynette Jackson, Oleg Starovoytov, Shizhong Yang

**Instructors:** Ratana Warren

**Coordinator of Resources:** Ashantia Roberson

**Recruitment Coordinator:** Floyd Hodoh

**Outreach Coordinator:** Krystal Sugulleh-Stewart

**Lab Technician:** Baozhu Liu

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 program is designed to encourage and foster the professional growth of students through their participation in and affiliation with professional organizations. There are four

concentrations to choose from in our Undergraduate Program: Cybersecurity, Data Analytic & Sciences, Mobile Application, and Information Systems, all leading to the Bachelor of Science Degree. This program is accredited by the Computing Accreditation Commission (CAC) of ABET, 415 North Charles Street, Baltimore, MD., 21202-4012, (410) 347-7700.

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 (COMPS 105, 290, 291, 292) for students seeking to achieve a measure of computer literacy. In addition, the Computer Science Department also offers a concentration in Business and Supply Chain Management. For more information, please contact the department.

For details on the department's graduate program refer to the Southern University Graduate School Catalog.

## COMPUTER SCIENCE PROGRAM EDUCATIONAL OBJECTIVES (PEO)

The computer science curriculum at Southern University is dedicated to preparing students for productive careers in the state, nation, and the world. Graduates of the computer science program will:

PEO-1: Successfully entered the competitive job market or pursue advanced study.

PEO-2: Be proficient in identifying, formulating, and solving a wide range of computing problems.

PEO-3: Be capable of working collaboratively, and communicating effectively with team members, constituents, and the public.

PEO-4: Uphold professional and ethical responsibilities and contribute to society through active engagement.

## CORE COURSE REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN COMPUTER SCIENCE

Students must earn a minimum grade of "C" in all required and elective courses in Computer Science, Biology, Chemistry, Physics, Mathematics, and Business. Students must also meet all requirements for the college and the University.

## DEGREE REQUIREMENTS

Students enrolled in the computer science program must successfully complete an approved program of study of 120 credit hours.

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE

### FRESHMAN YEAR

#### FIRST SEMESTER

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Computer Science Seminar I	CMPS 110	1	Computer Science Seminar II	CMPS 111	1
Modular Programming I	CMPS 190	3	Modular Programming II	CMPS 191	3
Analytical Geom. Cal I	MATH 264	4	Analytical Geom. Cal II	MATH 265	4
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
History Elective	HIST	3	History Elective	HIST	3
Health/Physical Education	PHED	2			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>14</b>

### SOPHOMORE YEAR

#### FIRST SEMESTER

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Discrete Structures	CMPS 200	3	Java Programming	CMPS 271	3

Data Structures	CMPS 201	3	General Biology	BIOL 104/105 OR 106/107	4
General Physics	PHYS 221	3	General Physics	PHYS 222	3
General Physics Lab	PHYS 223	1	General Physics Lab	PHYS 224	1
Linear Algebra	MATH 233	3	Literature Elective	ENGL 203	3
Statistics for Math .and Engr.	MATH 276	3			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>14</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 30	3	Object-Oriented		
Programming	CMPS 370	3	Software Engineering		3
Concentration Elective*		3		CMPS 378	3
Social Science Elective I		3	Social Science Elective II		3
Foreign Language Sequence I		3	Foreign Language Sequence II		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.
Operating Systems	CMPS 400	3	Database Management Sys.	CMPS 420	3
Concentration Elective*		3	Capstone Project Phase II	CMPS 451	2
Concentration Elective*		3	CMPS Elective**		3
Humanities Elective		3	Concentration Elective*		3
Arts Elective	ARTS	3	Concentration Elective*		3
Capstone Project Phase I	CMPS 450	1			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>14</b>

\* Select courses from one Concentration group in consultation with a computer science advisor.

\*\* Select courses from Computer Science Elective in consultation with a computer science advisor.

## COMPUTER SCIENCE CONCENTRATION GROUPS

Computer science students, in consultation with their academic advisor, may select a concentration in (i) Data Analytics & Science, (ii) Information Systems, (iii) Mobile Applications, **or** (iv) Cybersecurity. The student must complete the five concentration electives designated under the respective concentration.

### DATA ANALYTICS & SCIENCE CONCENTRATION

Course Name	Course Number	Credit Hours
Scientific Programming	CMPS 360	3
Cloud Computing	CMPS 372	3
Computer Architecture	CMPS 402	3
Theory of Computing	CMPS 412	3
Introduction to Data Analytics	CMPS 422	3

### INFORMATION SYSTEMS CONCENTRATION

Course Name	Course Number	Credit Hours
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Systems Analysis and Design	CMPS 415	3
Principles of Management	MGMT 300	3
Quantitative Analysis in Business	MGMT 306	3
<i>Electronic Business I (select one course from this group)</i>		
Purchasing and Materials Management	EBIZ 312	3
<b>Development of Business Information Systems</b>	EBIZ 341	3
Supply Chain Management	EBIZ 410	3
<i>Electronic Business II (select one course from this group)</i>		
Electronic Commerce	EBIZ 441	3
Logistics and Transportation Systems	EBIZ 445	3
Enterprise Resource Planning	EBIZ 446	3

#### **MOBILE APPLICATIONS CONCENTRATION**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
Web-based Programming	CMPS 350	3
Cloud Computing	CMPS 372	3
Mobile Client Development	CMPS 393	3
Mobile Deployment	CMPS 394	3
Computer Science Elective ( <i>select course from CMPS electives</i> )	CMPS	3

#### **CYBERSECURITY CONCENTRATION**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
Cyber Forensics	CMPS 355	3
Computers, Information and Society	CMPS 365	3
Legal Issues in Information Technology	CMPS 385	3
Network Security	CMPS 426	3
Disaster Recovery	CMPS 485	3

#### **COMPUTER SCIENCE ELECTIVES**

A computer science student may select computer science electives from our exciting list of courses listed below. Any 300-level or 400-level computer science course (see list below) which is not specified as a required course for a concentration may be selected as an elective course. For more details concerning electives please contact your advisor.

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
Social Networking	CMPS 305	3
Game Programming	CMPS 310	3
Information Systems	CMPS 315	3
Computer Animation	CMPS 318	3
Wireless Sensor Networks	CMPS 335	3
Practical Experience II	CMPS 340	3
Web Based Programming	CMPS 350	3
Cyber Forensics	CMPS 355	3
Scientific Programming	CMPS 360	3
Computers, Information and Society	CMPS 365	3
Advanced Object-Oriented Programming	CMPS 371	3
Cloud Computing	CMPS 372	3
Information Security	CMPS 375	3
Legal Issues in Information Technology	CMPS 385	3
Modeling & Simulation	CMPS 386	3
Object Oriented Design Patterns	CMPS 387	3
Human-Computer Interaction	CMPS 388	3
Computer Architecture	CMPS 402	3
Numerical Methods	CMPS 407	3
Theory of Computing	CMPS 412	3
Systems Analysis and Design	CMPS 415	3

Robotics	CMPS 425	3
Network Security	CMPS 426	3
Distributed Processing	CMPS 432	3
Telecommunications	CMPS 433	3
Networks and Graph Theory	CMPS 434	3
Introduction to Neural Networks	CMPS 435	3
Parallel Computing and Application	CMPS 436	3
Practical Experience III	CMPS 440	3
Special Projects	CMPS 455	3
Computer Graphics	CMPS 470	3
Artificial Intelligence	CMPS 480	3
Disaster Recovery	CMPS 485	3
Foundations of Cryptography	CMPS 493	3
Cryptographic Protocols	CMPS 494	3
Enterprise Security Protocols	CMPS 495	3
Internet Security Protocols	CMPS 496	3

### **Department of Civil & Environmental Engineering**

**Chair:** Joshua Joseph

**Professors:** Patrick Carriere, Chukwu Onu

**Associate Professors:** Joshua A. Joseph, Jr., Archie Tiner

**Assistant Professors:** Huey Lawson, Hang Yin

**Technician:** Ron Lee

**Administrative Assistant:** Veronica Bynum

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, storm water management, highway design, buildings and bridges, 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 comprehensive educational experience in the humanities, social sciences, English, economics, and basic sciences. The educational program includes focused training in applying fundamental principles of mathematics, science, engineering and technology in the analysis, design, construction, operations, management, maintenance, and retirement of engineering systems. Furthermore, our civil engineering curriculum is designed to inspire continuous learning and exceptional achievement throughout the professional lives of our graduates.

The program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700.

### **CIVIL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES (PEO)**

The civil engineering curriculum at Southern University is dedicated to preparing students for productive careers in the state, nation, and the world. Within a few years after graduation, graduates of the civil engineering program will have:

- PEO-1: Utilized methods of analysis, including the experimental, mathematical and computational skills to improve lives and livelihoods through a successful career in civil engineering or other related fields.
- PEO-2: Become ethical effective innovators, collaborators, leaders and practitioners in efforts to address technical, business and social challenges.
- PEO-3: Have developed the skills pertinent to the design of civil engineering systems, to think creatively, and to communicate effectively, in a minimum of four of the civil engineering areas including environmental, structures, transportation and water.

## CORE AND COMMON COURSES

Civil and Environmental Engineering students are required to earn a grade of “C” or higher in the following CORE and COMMON courses.

### CORE MATHEMATICS AND SCIENCE REQUIREMENTS FOR CIVIL ENGINEERING MAJORS

Course Name	Course Number	Credit Hours
Calculus I	MATH 264	4
Calculus II	MATH 265	4
Calculus III	MATH 364	4
Differential Equations for Engineers	ENGR 330	3
General Physics Lecture and Lab	PHYS 221/223	3/1
General Physics Lecture and Lab	PHYS 222/224	3/1
General Chemistry Lecture	CHEM 132	3
General Chemistry Lab	CHEM 112	1

### COMMON ENGINEERING COURSES

Course Name	Course Number	Credit Hours
Freshman Engineering I	ENGR 120	2
Freshman Engineering II	ENGR 130	2
Technical Communications	ENGR 230	2
Probability and Statistics	ENGR 320	2
Senior Seminar	ENGR 400	1

## DEGREE REQUIREMENTS

Students enrolled in the civil engineering program must successfully complete an approved program of study of 128 credit hours.

### 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	BIOL	3	Freshman Composition	ENGL 111	3
Freshman Composition	ENGL 110	3	Economics	ECON 205	3
General Chemistry	CHEM 132	3	General Physics I	PHYS 221	3
General Chemistry Lab	CHEM 112	1	General Physics I Lab	PHYS 223	1
Calculus I	MATH 264	4	Calculus II	MATH 265	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.
Surveying & Geospatial Cpts	CIEN 201	3	Dynamics	MEEN 225	3
Computer Aided Methods in CE	CIEN 311	3	Mechanics of Materials	MEEN 227	3
Statics	CIEN 224	3	Engr Fluid Mechanics	CIEN 321	3
Technical Communication	ENGR 230	2	Calculus III	MATH 364	4
Probability & Statistics	ENGR 320	2	Intro to Environ Engineering	CIEN 325	3
General Physics II	PHYS 222	3			
General Physics II Lab	PHYS 224	1			



**TOTAL****17 TOTAL****16****JUNIOR YEAR****FIRST SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Water Quality Analysis	CIEN 421	3
History Elective	HIST	3
Hydraulics & Hydrology	CIEN 423	3
Structural Analysis	CIEN 361	3
Geotechnical Engineering I	CIEN 424	3
Social Science Elective	Soc Sci Elec	3
<b>TOTAL</b>		<b>18</b>

**SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Diff. Eq. for Engineers	ENGR 330	3
English Lit Elective	ENGL	3
Engineering Economy	CIEN 310	3
Transportation Engr I	CIEN 381	3
Structural Steel Design	CIEN 469	3
<b>Construction Materials Lab</b>	CIEN 327	<b>2</b>
<b>TOTAL</b>		<b>17</b>

**SENIOR YEAR****FIRST SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Environ/Water Res Elective	CIEN	3
Concrete Design	CIEN 470	3
Senior Design Project I	CIEN 482	2
Engineering Management	CIEN 478	3
Thermodynamics or	MEEN 300	3
Fundamentals of Elect Eng	ELEN 352	3
<b>TOTAL</b>		<b>14</b>

**SECOND SEMESTER**

<b>Course</b>	<b>No.</b>	<b>Cr.</b>
History Elective	HIST	3
Senior Design Project II	CIEN 483	2
Arts Elective		3
Health/Physical Ed Elec	HLTH/PHED	2
Engineering Seminar	ENGR 400	1
Technical Elective		3
<b>TOTAL</b>		<b>14</b>

All ENGR courses, MEEN 225, and MEEN 227 are CORE courses for Civil Engineering students and must be completed with a grade of "C" or better.

\* ELEN 208 may be substituted for ELEN 352

**CIVIL ENGINEERING ELECTIVE GROUPS****ENVIRONMENTAL & WATER RESOURCES ENGINEERING ELECTIVES**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
Urban Water Resources Systems	CIEN 461	3
Water/Sewage Treatment Plants	CIEN 462	3
Air Pollution Control	CIEN 463	3
Intro to Dam Safety	CIEN 468	3
Solid /Hazardous Waste Management	CIEN 475	3
Design of Hydraulic Structures	CIEN 476	3

**CIVIL ENGINEERING TECHNICAL ELECTIVES**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
Transportation Engineering II	CIEN 382	3
Construction Engineering	CIEN 458	3
Geotechnical Engineering II	CIEN 474	3
Pavement Design and Management	CIEN 481	3
Railway Engineering	CIEN 485	3

**GENERAL TECHNICAL ELECTIVES**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
<b>Introduction to Geographic Information Systems</b>	UFOR 375	3
Principles of Management	MGMT 300	3
Cooperative Education	CIEN 299	3
Special Topics in Civil Engineering	CIEN 480	3
Engineering Mathematics	ENGR 340	3
Engineering Practice	ENGR 499	3

Note: Only one (1) course from the General Technical Elective Group can be selected.

**Department of Electrical Engineering**  
**Electrical Engineering Program**

**Chair:** Fred Lacy

**Emeritus Professor:** James Cross

**Professors:** Fred Lacy, Jiecai Luo, Hamid R. Majlesein, Raife Smith II, Zhengmao Ye

**Associate Professor:** Radian Belu, Elhag Shaban

**Assistant Professor:** Yasser Ismail

**Technician:** Liuxi Tan

**Administrative Assistant:** Patricia Carter

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 128 credit hours in the electrical engineering curriculum required for graduation.

The electrical engineering program is accredited by the Engineering Accreditation Commission (EAC) of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012- Telephone: (410)347-7700.

**ELECTRICAL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES (PEOs)**

The electrical engineering curriculum at Southern University is dedicated to preparing students for productive careers in the state, nation, and the world. Within a few years after graduation, graduates of the electrical engineering program will:

PEO-1: Have developed the skills pertinent to design electrical engineering systems, including the ability to formulate problems clearly, to think creatively, to synthesize information globally, to work collaboratively, and to communicate effectively.

PEO-2: Have an understanding of ethical and professional responsibilities when using data analysis, computational skills, and experimental techniques to solve electrical engineering problems.

PEO-3: Have demonstrated the knowledge necessary to function effectively in roles of leadership and service to the public; necessary preparation for this is gained in areas such as basic management, business and public policy and this preparation will allow graduates to continue learning and adapting to evolving technologies, procedures and concepts in electrical engineering.

**CORE AND COMMON COURSES**

Electrical Engineering students are required to earn a grade of “C” or higher in the following CORE and COMMON courses.

**CORE MATHEMATICS AND SCIENCE REQUIREMENTS FOR ELECTRICAL ENGINEERING MAJORS**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
Calculus I	MATH 264	4
Calculus II	MATH 265	4
Calculus III	MATH 364	4
<b>Differential Equations for Engineers</b>	<b>ENGR 330</b>	<b>3</b>
<b>General Physics Lecture and Lab</b>	<b>PHYS 221/223</b>	<b>3/</b>
<b>General Physics Lecture and Lab</b>	<b>PHYS 222/224</b>	<b>3/1</b>
<b>General Chemistry Lecture</b>	<b>CHEM 132</b>	<b>3</b>
<b>General Chemistry Lab</b>	<b>CHEM 112</b>	<b>1</b>

**COMMON ENGINEERING COURSES**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
Freshman Engineering I	ENGR 120	2
Freshman Engineering II	ENGR 130	2

Technical Communications	ENGR 230	2
Probability and Statistics	ENGR 320	2
Senior Seminar	ENGR 400	1

## DEGREE REQUIREMENTS

Students enrolled in the electrical engineering program must successfully complete an approved program of study of 128 credit hours.

### BACHELOR OF SCIENCE IN ELECTRICAL 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
Calculus I	MATH 264	4	Economics	ECON 205	3
Freshman Composition	ENGL 110	3	Calculus II	MATH 265	4
General Chemistry	CHEM 132	3	Freshman Composition	ENGL 111	3
General Chemistry Lab	CHEM 112	1	General Physics	PHYS 221	3
Life Science Elective		3	General Physics Lab	PHYS 223	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.
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	3	English Lit. Elective	ENGL 203	3
General Physics Lab	PHYS 224	1	Diff. Eq. for Engineers	ENGR 330	3
Tech. Communication	ENGR 230	2	Engr. Mechanics	MEEN 229	4
Calculus III	MATH 364	4	History Elective	HIST	3
Health/PE		2			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>1</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. Electronics Lab I	ELEN 314	1	Eng. Electronics Lab II	ELEN 315	1
Prob. & Statistics	ENGR 320	2	Elec. Machines I	ELEN 342	3
Elec. Mag. Field Theory	ELEN 341	3	Elec. Machines Lab I	ELEN 344	1
Engineering Econ.	CIEN 310	3	Signals and Systems	ELEN 390	3
Digital Logic Design	ELEN 303	3	Intro. to Microprocessors	ELEN 304	3
Digital Logic Design Lab	ELEN 305	1	Microprocessor Lab	ELEN 306	1
			Technical Elective		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		3
Sr. Design Project I	ELEN 493	1	Elec. Engr. Lab Elective		1
Control Sys Anal	ELEN 431	3	Sr. Design Project II	ELEN 494	2
Thermodynamics I	MEEN 300	3	Arts Elective		3
Engr. Seminar	ENGR 400	1	Social Science Elective		3

Technical Elective  
**TOTAL**

3 History Elective  
**14 TOTAL**

HIST

3  
**15**

## **ELECTRICAL ENGINEERING ELECTIVE GROUPS**

The electrical engineering electives are arranged in groups to allow students to choose the required technical elective courses/laboratory from the list shown below.

### **GROUP I: COMPUTERS**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
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
Programming Languages	CMPS 300	3

### **GROUP II: POWER AND CONTROL SYSTEMS**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
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
Power System Design	ELEN 463	3
Network Synthesis	ELEN 471	3

### **GROUP III: COMMUNICATIONS**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
<b>Electromagnetic Field Theory Lab</b>	ELEN 325	1
<b>Communication Engineering II</b>	ELEN 412	3
<b>Communication Systems Lab</b>	ELEN 415	1
Microwaves	ELEN 423	3
<b>Computer Communications Systems</b>	ELEN 472	3

### **GROUP IV: ELECTRONICS**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
<b>Theory &amp; Fabrication of Solid State Devices</b>	ELEN 418	3
<b>Integrated Circuit Design &amp; Analysis</b>	ELEN 419	3
<b>Test Engineering for Mixed Signal Circuits</b>	ELEN 421	3
<b>Test Engineering for Mixed Signal Circuits Lab</b>	ELEN 422	1
Mechatronics	ELEN 464	3

### **GENERAL TECHNICAL ELECTIVES**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
<b>Advanced Topics in Electrical Engineering</b>	ELEN 417	3
Electrical Design Lab	ELEN 490	1

Engineering Mathematics	ENGR 340	3
Engineering Practice	ENGR 499	3

## **Electronics Engineering Technology Program** **Electronics Engineering Technology Program**

**Chair:** Fred Lacy

**Program Leader:** Walter O. Craig

**Professors:** Abolfazl M. Amini, Davoud Arasteh

**Assistant Professor:** Walter O. Craig

**Adjunct Professor:** Manjit Randhawa

**Adjunct Professor:** Raynaud Henton

**Technician:** Alfred Sarkodee-Adoo

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 126 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, 130, 230 and 400 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 ABET, 111 Market Place, suite 1050, Baltimore, MD 21202, Telephone: 410-347-7700.

### **ELECTRONICS ENGINEERING TECHNOLOGY PROGRAM EDUCATIONAL OBJECTIVES (PEO)**

The electronics engineering technology (EET) curriculum at Southern University is dedicated to preparing students for productive careers in the state, nation, and the world. Within a few years after graduation, graduates of the EET program will:

PEO-1: Utilize a foundation in engineering design and analysis to improve lives through a successful career in Electronics Engineering Technology.

PEO-2: Become effective collaborators and innovators leading or participating in efforts to address social and technical challenges.

PEO-3: Pursue life-long learning and professional development through self-study, continuing education, or graduate and professional studies to ethically address the needs of society.

### **CORE MATHEMATICS AND SCIENCE COURSE REQUIREMENTS FOR THE ELECTRONICS ENGINEERING TECHNOLOGY PROGRAM**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
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

## DEGREE REQUIREMENTS

Students enrolled in the electronics engineering technology program must successfully complete an approved program of study of 126 credit hours.

### BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING TECHNOLOGY

#### FRESHMAN YEAR

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Freshman Composition	ENGL 110	3	Freshman Composition	ENGL 111	3
Freshman Engr. I	ENGR 120	2	Freshman Engr. II	ENGR 130	2
General Chem Lab	CHEM 112	1	DC CKT Analysis	EENT 110	3
General Chem Lec.	CHEM 132	3	DC CKT Analysis Lab	EENT 111	1
Pre-Calculus Math I	MATH 135	3	Pre-Calculus Math II	MATH 140	3
Elements of Physics	PHYS 141	4	Elements of Physics	PHYS 142	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.
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
Life Science Elective	BIOL	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
<b>Fund. Signals &amp; Data Processing</b>	EENT 370	3	Electrical Mach. Lab	EENT 361	1
Fund Signal Data Lab	EENT 371	1	Statistics for Engineer	ENGR 320*	2
Digital Comm. Lec.	EENT 390	3	Computer System Tech.	EENT 380	3
Digital Comm. Lab.	EENT 391	1	Social Science Elective		3
History Elective	HIST	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.
Engineering Seminar	ENGR 400	1	General Tech Elective	EENT	3
Comp Networking 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	2
Electronics Elective	EENT	3	Communication Elective	EENT	3

English Lit Elective	ENGL	3	Programmable Logic		
Arts Elective		3	Controllers	EENT 460	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>14</b>

NOTE: \*MATH 276 is an alternate course that may be taken in place of ENGR 320

## ELECTRONICS ENGINEERING ELECTIVE GROUPS

### ELECTRONICS ELECTIVES

Course Name	Course Number	Credit Hours
Linear Integrated Circuits	EENT 314	3
Semiconductor Device Processing	EENT 330	3
Advanced Electronics Circuit Analysis and Design	EENT 404	3

### COMMUNICATION ELECTIVES

Course Name	Course Number	Credit Hours
Advance Topics in Digital Signal Processing	EENT 479	3
Advance Topics in Computer Technology	EENT 489	3
Fiber Optics Communication	EENT 490	3
Wireless Communication Systems	EENT 492	3
Advanced Topics in Communication	EENT 495	3

### GENERAL TECHNICAL ELECTIVES

Course Name	Course Number	Credit Hours
Information Systems	CMPS 315	3
Object-Oriented Programming	CMPS 370	3
Principles of Management	MGMT 300	3
Management of Innovation and Technology	MGMT 450	3
Engineering Practice	ENGR 499	3
Cal III and Diff. Equation for Engineering Majors	MATH 395	4
Selected Topics in Electronics Technology	EENT 434	3

NOTE: The courses listed under Electronic Electives and Communication Electives may also count as one of the General Technical Electives, however, a single course cannot meet the requirements of both elective groups.

## Department of Mechanical Engineering

**Chair:** H. Dwayne Jerro

**Professors:** Edgar Blevins, Karen Crosby, Chun-Ling Huang, Samuel Ibekwe, Amitava Jana, H. Dwayne Jerro, Ghanashyam Joshi, Guoqiang Li, Patrick Mensah, Habib Mohamadian

**Associate Professor:** Michael Stubblefield

**Assistant Professors:** Fareed Dawan, Stephen Akwabod

**Technician:** Sanjay Kodiyalam

**Administrative Assistant:** Bernice Ruth

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. The mechanical engineering curriculum consists of a total of 128 credit hours.

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 ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone: (410)347-7700.

### **MECHANICAL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES (PEO)**

The mechanical engineering curriculum at Southern University is dedicated to preparing students for productive careers in the state, nation, and the world. Within a few years after graduation, graduates of the mechanical engineering program will have:

PEO-1: Utilized a foundation in engineering and science using modern tools to improve lives and livelihoods through a successful career in mechanical engineering or other fields.

PEO-2: Become effective collaborators and innovators, leading or participating in efforts to address social, technical and business challenges in a professional and ethical manner.

PEO-3: Pursued in life-long learning and professional development through self-study, continuing education or graduate and professional studies to address the societal needs.

### **CORE AND COMMON COURSES**

Mechanical Engineering students are required to earn a grade of "C" or higher in the following CORE and COMMON courses.

#### **CORE MATHEMATICS AND SCIENCE REQUIREMENTS FOR MECHANICAL ENGINEERING MAJORS**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
Calculus I	MATH 264	4
Calculus II	MATH 265	4
Calculus III and Differential Equations for Engineers	MATH 395	4
Engineering Math	ENGR 340	3
General Physics Lecture and Lab	PHYS 221/223	3/1
General Physics Lecture and Lab	PHYS 222/224	3/1
General Chemistry Lecture	CHEM 132	3
General Chemistry Lab	CHEM 112	1

#### **COMMON ENGINEERING COURSES**

<b>Course Name</b>	<b>Course Number</b>	<b>Credit Hours</b>
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Freshman Engineering I	ENGR 120	2
Freshman Engineering II	ENGR 130	2
Technical Communications	ENGR 230	2
Probability and Statistics	ENGR 320	2
Senior Seminar	ENGR 400	1

## DEGREE REQUIREMENTS

Students enrolled in the mechanical engineering program must successfully complete an approved program of study of 128 credit hours.

## 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 Composition	ENGL 111	3
Freshman Composition	ENGL 110	3	Economics	ECON 205	3
General Chemistry Lec	CHEM 132	3	General Physics	PHYS 221	3
General Chemistry Lab	CHEM 112	1	General Physics Lab	PHYS 223	1
Calculus I	MATH 264	4	Calculus II	MATH 265	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.
Statics	CIEN 224*	3	Dynamics	MEEN 225	3
<b>Cal III &amp; Differ Eqn for Engr</b>	<b>MATH 395</b>	<b>4</b>	<b>Mechanics of Materials</b>	<b>MEEN 227</b>	<b>3</b>
Social Science Elective		3	<b>Materials Sci &amp; Engr</b>	<b>MEEN 235</b>	<b>3</b>
General Physics II	PHYS 222	3	Intro to CADD	MEEN 252	2
General Physics II Lab	PHYS 224	1	<b>Num Methods for Engr</b>	<b>MEEN 221</b>	<b>3</b>
Tech Communications	ENGR 230	2	E. E. Fundamentals	ELEN 352	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.
Thermodynamics I	MEEN 300	3	Thermodynamics II	MEEN 301	3
<b>Engineering Mathematics</b>	<b>ENGR 340</b>	<b>3</b>	Materials Sci & Engr Elective		3
Fluid Mechanics	MEEN 312	3	Machine Design	MEEN 365	3
Materials Processing	MEEN 335	3	Measurement	MEEN 356	3
Mechanics of Machines	MEEN 350	3	<b>Probability &amp; Statistics</b>	<b>ENGR 320</b>	<b>2</b>
Health/PE Activity		2	History 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.
Engineering Seminar	ENGR 400	1	Engineering Economy	CIEN 310	3
Heat Transfer	MEEN 442	3	ME Senior Design II	MEEN 451	2
ME Senior Design I	MEEN 450	2	Control & Engr Model	MEEN 456	3
Thermal Science Elective		3	General Tech. Elective**		3
History Elective		3	Arts Elective		3
Literature Elective		3			

\* CIEN 224 is considered core course for mechanical engineering students.

\*\* The courses listed under Thermal Science and Materials Science & Engineering may also count as one of the general technical elective courses.

## MECHANICAL ENGINEERING TECHNICAL ELECTIVE GROUPS

### THERMAL SCIENCE

Course Name	Course Number	Credit Hours
Fluid Dynamics	MEEN 313	3
Thermal Environmental Engineering	MEEN 421	3
Mechanical Energy Systems	MEEN 460	3
Thermal System Analysis	MEEN 482	3

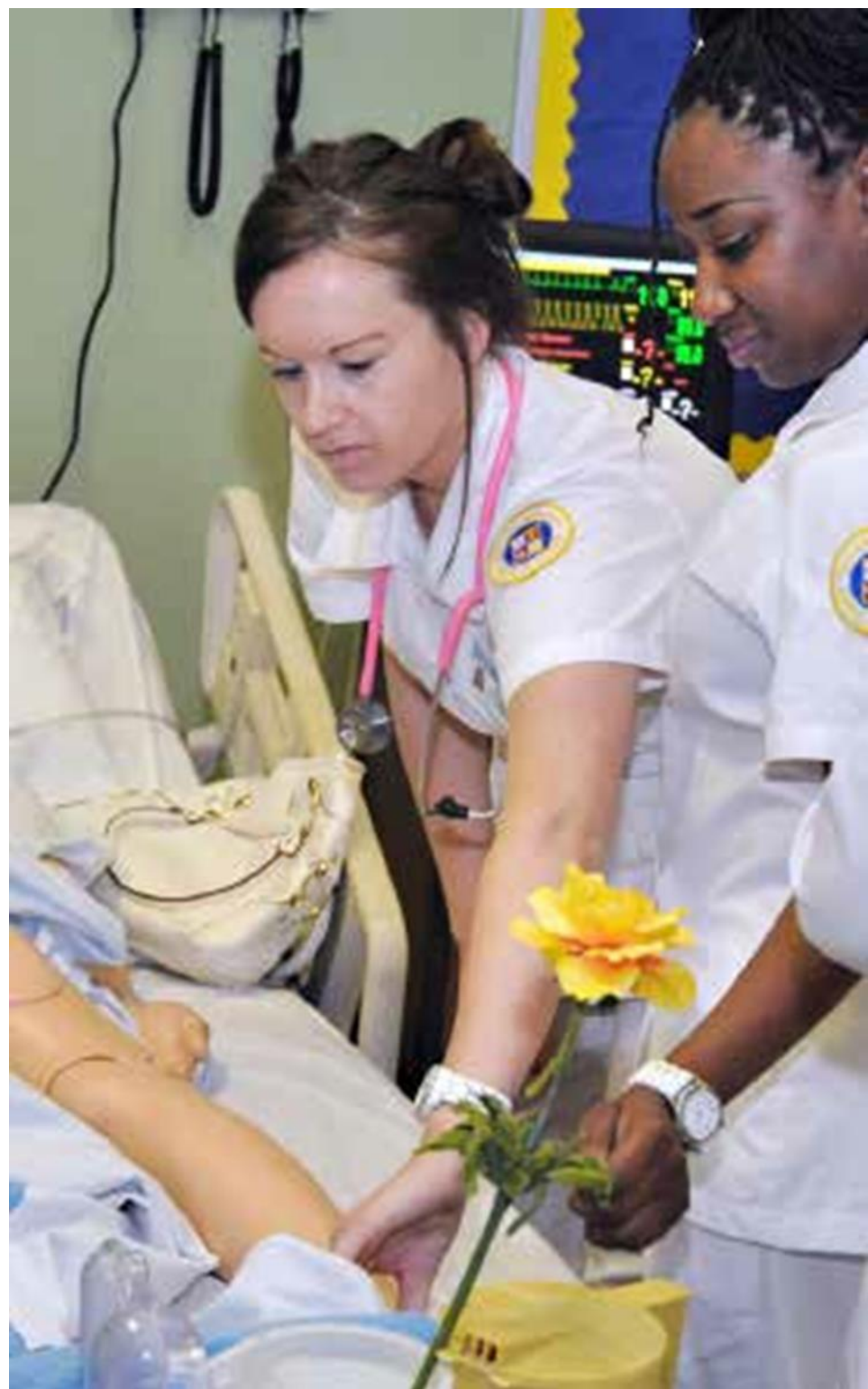
### MATERIALS SCIENCE & ENGINEERING

Course Name	Course Number	Credit Hours
Engineering Materials & Selection	MEEN 337	3
Composite Materials	MEEN 336	3
Introduction to Finite Elements	MEEN 430	3

### ENGINEERING DESIGN: MATERIALS & MANUFACTURING

Course Name	Course Number	Credit Hours
Engineering Design: Materials and Manufacturing	MEEN 462	3
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
Principles of Management	MGMT 300	3











**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\nrotc

Naval ROTC  
Professor of Naval Science  
Navy ROTC Building  
Southern University  
P.O. Box 9214  
Baton Rouge, LA 70813  
www.subr.edu\nrotc  
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 [HYPERLINK "http://www/"\h 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.

\*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.

### **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.

### **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.

### 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

## MILITARY SCIENCE

### Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Foundation of Leadership & Management Leadership Lab	MILS 100	1	Military Science & Leadership Leadership Lab	MILS 101 MILS 111	1 1
Leadership Lab & Management Leadership Lab	MILS 110 MILS 200 MILS 210	1 1 1	Leadership Lab	MILS 211	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.
Advanced Leadership & Management Leadership Lab	MILS 300 MILS 310	2 1	Advanced Leadership & Management Leadership Lab	MILS 301 MILS 311	2 1
<b>TOTAL</b>		<b>3</b>	<b>TOTAL</b>		<b>3</b>

### Junior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.
Theory and Dynamics Leadership Lab Leadership Lab	MILS 400 MILS 410 MILS 411	2 1 1	Sr. Sem. in Leadership & Management	MILS 401	2
<b>TOTAL</b>		<b>12</b>	<b>TOTAL</b>		<b>15</b>

### Senior Year

FIRST SEMESTER			SECOND SEMESTER		
Course	No.	Cr.	Course	No.	Cr.

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.

Upon completion of the Naval ROTC Program required courses, students receive a minor in Naval Science. 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 [www.nrotc.navy.mil](http://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**

**Freshmen 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
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<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
Naval Lab	NAVS 400	1	Leadership & Ethics	NAVS 402	3
Naval Ship Sys. II (Weps)	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

<b>Course</b>	<b>No.</b>	<b>Cr.</b>	<b>Course</b>	<b>No.</b>	<b>Cr.</b>
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

**Interim Dean:** Habib P. Mohamadian

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
- Mental Health
- Counseling Social
- Sciences

Concentrations offered

- in: History
- Political
- Science
- Sociology

## **MASTER OF BUSINESS**

### **ADMINISTRATION MASTER OF**

### **EDUCATION**

- Middle School and Special Education Integrated to Merge Grades 4-8
- Educational Leadership
- Special 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  
Geronto-  
logy

**MASTER OF PUBLIC ADMINISTRATION MASTER OF SCIENCE**

Biology  
Traditional  
Chemistry  
Environmental  
Chemistry  
Computer Science  
Criminal Justice  
Mathematics and  
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 or the International English Language Testing System (IELTS) 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) or IELTS scores (a band of 6) 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, IELTS and GRE Scores. [Iran (GRE Scores); Nigeria (TOEFL)]

3. Once a complete package with all the listed documents is received, an admission's 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**

***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.

Applicants 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 Office of International Affairs 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

## NON-DEGREE 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:

- the 12 credit hours consist of graduate level courses (500 level and above, or equivalent);
- the 12 credit hours are part of the plan of study of the specific selected degree program and are accepted by the selected department; and
- the 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**

**Phone (Toll Free): 1-888-223-1460**

**P.O. Box 9860 Southern Branch Post Office  
Baton Rouge, LA 70813-9860  
ejigiri@yahoo.com**

**Fax: (225) 771-5723**

**Email:**

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 Capital 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, hydrogeologists and faculty and students from each college/school at the University.

### **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 complements 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 diversify 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, to enrolls 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 provides 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 HYPERLINK “[http:// www.phys.subr.edu/timbuktu.htm](http://www.phys.subr.edu/timbuktu.htm)” \h ([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 Anti-virus 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 Interfacing 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 wafer 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 electrochemical 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 Sparc 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.

## Courses of Instruction

### COURSE DESIGNATIONS AND RUBRICS

Accounting	ACCT	Marketing MKTG	
Aerospace Studies	ASST	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	COMPS	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	
Geography	GEOG	and Leisure Studies	TRLS
German	GERM	University College Studies	UCOL
Health	HLTH	Urban Forestry	UFOR
Health Sciences	HLSC	Visual Arts	ARTS
History	HIST	Wolof	WOLO
Humanities	HUMN	Women's Studies	WMST
Japanese	JAPN		
Management	MGMT		

**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. Prerequisite: ACCT 200.

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: ACCT201.

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. Pre-requisite: ACCT201.

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, COMPS 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: ACCT310.

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 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.

212. APPLIED ECONOMICS (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.

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.

214. FARM MANAGEMENT (Credit, 3 hours.) Economic management principles for operating a successful business are stressed. Preparing and analysis of business records; financial statements and total, partial and enterprise budgets are also covered. Prerequisites: AGSC 212 or ECON 210.

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., 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.

310. 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: AGSC 212 or ECON 210.

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.

333. FINANCIAL MANAGEMENT (Credit, 3 hours). Course designed to cover measures of financial performance and investment and investment analysis of individual farms and agribusiness firms. Prerequisite AGSC 214.

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

ag- ronomic 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 interested under the supervision of a faculty member. Prerequisites: junior, senior, or graduate standing and consent of program leader.
414. AGRICULTURAL AND NATURAL RESOURCE POLICY (Credit, 3 hours). Analyses of past and current federal and state governmental policies and programs effect on the agriculture sector and rural communities. Prerequisite: AGSC 212 or ECON210.
420. ANATOMY AND PHYSIOLOGY (Credit, 1 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.
422. MARKETING AGRICULTURAL PRODUCTS (Credit, 3 hours). Study of the characteristics and approaches to analyzing agricultural product markets and marketing and application of economic theory to analyze the structure, conduct and performance of agricultural product markets. Prerequisite: AGSC 212 or ECON 210.
428. COMMERCIAL VEGETABLE PRODUCT10N (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, parturition, 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.
452. AGRIBUSINESS MARKETING MANAGEMENT (Credit, 3 hours). A study of the types of knowledge necessary and the types of decisions that must be made by managers of agribusiness firms which include consumer demand, target marketing, marketing research, sales forecasting, product pricing and market control. Prerequisite: AGSC 212 or ECON 210.
461. PRICE ANALYSIS (Credit, 3 hours). Application of economic theory and mathematics and statistical concepts to problems of price discovery and determination, derivation of theoretical and empirical demand and supply models, and computation and interpretation of elasticity coefficients. Prerequisites: AGSC 422 or ECON 310, MATH 203 and 274.
462. RESOURCE ECONOMICS (Credits, 3 hours). Application of economics to private and public decisions regarding use of 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: AGSC 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 and nonlinear models and other statistical methods used to analyze and interpret economic data. Prerequisites: AGSC 212 or ECON 210 and MATH 274.

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.

499. SPECIAL PROBLEMS IN AGRIBUSINESS AND ECONOMICS. (Credit, 3 hours). A study of how to approach, organize and conduct economic research and professionally write and present the results. Prerequisites: completed 90 credits toward the degree with a concentration in agribusiness and economics and MATH 274.

### **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: ARCH210.
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 procedural 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 system, 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, 1-2 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 preparation, 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. Prerequisite sites: 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. Prerequisite sites: 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 procaryotic 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.

## **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. Prerequisite:

sites 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. Pre-requisites: 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 physical 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. CHEMICAL RESEARCH I (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.

423. CHEMICAL RESEARCH II (Credit, 1-2 hours). Continuation of CHEM 423 with increased emphasis on writing research papers and making formal presentations. Prerequisite: CHEM 422.

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, 4 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 performing 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 AND GEOSPATIAL CONCEPTS (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. An overview of geographic information systems (GIS) and satellite positioning systems (especially GPS - the Global

Positioning System) as related to surveying. Prerequisite: MATH 264

224. STATICS (Credit 3 hours) (Lec, 2 hours; Lab, 2 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. Classroom problem solving is required. Prerequisites: PHYS 221/223 and MATH 265.
299. COOPERATIVE EDUCATION (Credit, 3 hours). Beginning at the sophomore year, but not recommended until the beginning of the junior 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 as evaluated across the substantiate whole of the CO-OP experience. Prerequisite: Consent of Department Chair.
310. ENGINEERING ECONOMY (Credit, 3 hours). Presents economic principles and techniques used in decision making involving acquisition and retirement of capital goods by government and industry. Special emphasis will be on the time value of money and decisions involving rates of return, net present worth, and annual worth analysis. Prerequisites: ECON 200 or ECON 205 and MATH 265.
311. COMPUTER AIDED METHODS IN CIVIL ENGINEERING (Credit, 2 hours) (Lec, 2 hours; Lab, 2 hours). Introduction to AutoCAD; computer-aided methods for basic civil engineering (CE) design processes. Introduction to CE design and various CE and general-purpose software packages for the design of CE systems. Prerequisites: ENGR 130, CIEN 201
321. ENGINEERING FLUID MECHANICS (Credit, 3 hours) (Lec, 3 hours; Lab, 2 hours). Properties of fluids; fluid statics; fluids in motion; Bernoulli's equation; conservation of mass; energy equation; momentum equation; dimensional analysis and similitude; hydraulics of flow in pipes and open channels. Lab: Reinforcement of basic fluid mechanics concepts. Co-requisites: MEEN 225 and PHYS 222/224
325. INTRODUCTION TO ENVIRONMENTAL ENGINEERING AND SCIENCE (Credit, 3 hours). Mass and energy transfer; environmental regulations; environmental chemistry; risk assessment; air and water quality; hazardous waste management. Prerequisites: CHEM 132 and CHEM 112
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. Prerequisite: CIEN 201. Co-requisite: CIEN321.
382. TRANSPORTATION ENGINEERING II (Credit, 3 hours). Design principles of urban roads and highway systems; geometric design of intersections, interchanges and grade separations; analysis of operational characteristics and controls; detailed solutions for design problems. Prerequisite: CIEN 38.

kinetics and equilibrium; acid-base chemistry; oxidation reduction reactions; precipitation, dissolution, and the application of the principles of gravimetric, volumetric, and colorimetric method to the laboratory analysis of water and wastewater. Methods for addressing water quality problems in water supply and wastewater treatment. Prerequisite: CIEN 325.

423. HYDRAULICS AND HYDROLOGY (Credit, 3 hours) (Lec, 3 hours; Lab, 1 hour). Hydraulics of pipe flow and flow in pipe networks; pumps; open channel flow; weirs and spillways; hydrologic cycle, rainfall and runoff analysis; frequency analysis, hydrograph theory and application. Stormwater management and design of detention systems. Prerequisite: CIEN 321 or equivalent.

424. GEOTECHNICAL ENGINEERING I (Credit, 3 hours) (Lec, 3 hours; Lab, 3 hours). Fundamental treatment of the physical and mechanical properties of soils; stresses in a soil mass, stress-strain behavior, shear strength, and consolidation; introduction to earth pressure theories; and 1-D and 2-D flow through soils. 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 and environmental engineering. Technical topics from areas of foundations, soils, building materials, pavements, sewers, hydraulic structures and infrastructure are incorporated. Prerequisites: CIEN 327, CIEN 361, CIEN 381 and CIEN 423.

461. URBAN WATER RESOURCES SYSTEMS (Credit, 3 hours). Qualitative and quantitative requirements of water for domestic, fire, and industrial use, principles of collection, pumping and storage; reservoir systems and hydropower; distribution of water for public, domestic, and industrial use; storm and sanitary sewer systems and combined sewers, urban hydrology. Design and analysis software used in practice are utilized. Prerequisite: CIEN 423.

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. Prerequisites: CIEN 321 and CIEN 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 Consent of Department Chair.

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. STRUCTURAL STEEL DESIGN (Credit, 3 hours). Behavior and design of steel structural members in tension, compression, and flexure using the Load Resistance Factor Design (LRFD) specifications with elastic analysis. Prerequisite: CIEN 361.

470. DESIGN IN CONCRETE (Credit, 3 hours). Design of concrete beams, slabs, and columns using Ultimate Strength Concept; introduction to rigid frame system design. Prerequisite: CIEN 361. Co-requisite: CIEN 327.

474. GEOTECHNICAL ENGINEERING II (Credit, 3 hours). Soil sub-surface exploration techniques, soil bearing capacity theory, lateral earth pressure theory, design and analysis of shallow foundations, design and performance of earth retaining systems, braced cuts, sheet-pile; introduction to deep foundations. Prerequisite: CIEN 424.

475. SOLID AND HAZARDOUS WASTE MANAGEMENT (Credit, 3 hours). Generation, onsite 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, including evaluation and remedial measures. Prerequisite: CIEN 423.

478. ENGINEERING AND CONSTRUCTION MANAGEMENT (Credit, 3 hours). Construction and engineering management methods; introduction to engineering management principles and concepts; business management practices, communications and teaming; project management; basic optimization; ethics and societal issues; public policy issues that impact design, construction, and operation of civil engineering facilities. Prerequisites: CIEN 310, CIEN 311, and CIEN 381.

480. SPECIAL TOPICS IN CIVIL ENGINEERING (Credit, 3 hours). Investigation of selected topics of current interest in the field of civil engineering. Prerequisites: CIEN 325, CIEN 361, CIEN 381, and CIEN 423.

481. PAVEMENT DESIGN AND MANAGEMENT (Credit, 3 hours). Flexible and rigid pavement design procedures; subgrade, base and surfacing characteristics; loads, stresses in pavement systems; materials 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 PROJECT 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 are required. Prerequisites: CIEN 325, CIEN 361, CIEN 381, CIEN 423. Co-requisite: CIEN 424.

483. SENIOR DESIGN PROJECT II (Credit, 2 hours). Students will demonstrate the ability to perform independent and creative work by successfully completing a major engineering design project. Group interaction and work with engineering practitioners are required. Prerequisite: CIEN 482.

485. RAILWAY ENGINEERING (Credit, 3 hours). This course covers rail transportation systems, track geometry and right-of-way, track loading response, design, evaluation and maintenance. Prerequisite: CIEN 381.

490. CIVIL AND GENERAL ENGINEERING TOPICS REVIEW (Credit, 1 hour) (Lec, 1 hour; Lab, 1 hour). Review of civil engineering and general engineering topics included on the Fundamentals of Engineering (FE) exam. Extensive problem solving for FE exam preparation; review of topics in five major areas of civil engineering and also general engineering; review of civil engineering registration and licensure. Prerequisites: Any four (4) of the following: CIEN 325, CIEN 361, CIEN 381, CIEN 423, and/or CIEN 424.

### **COMPUTER SCIENCE (COMPS)**

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. Prerequisite: None.

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. COMPS 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 COMPS 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: Consent of Instructor.

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 COMPS 191 with a "C" or better.

240. PRACTICAL EXPERIENCE I (Credit, 3 hours). This course enables those students who enroll to gain first-hand experience while employing concepts and theory gained from elementary coursework in computer science. This experience is achieved by the student successfully completing and assignment in business, industry or government over a period of one semester. Prerequisite: Sophomore classification and approval of advisor.

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: COMPS190 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, sys- tem formats will be taught, calls, subroutines and file. The fundamentals of "C" programming will also be taught along with applications. Prerequisite: Not for degree credit for Computer Science majors.

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. (Credit, 3 hours). 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: Consent of the Instructor. Not for credit for Computer Science Majors.

291. 292. ADVANCE TECHNIQUES USING BUSINESS DATABASES. (Credit, 3 hours). This course consists of using a business software pack- age to enhance the concepts of databases such

as creating forms, queries, reports and integrating other software packages. Prerequisite: COMPS 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: COMPS 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 and admitted to the department.

305. SOCIAL NETWORKING (Credit, 3 hours). This course introduces students to a variety of existing, new and emerging concepts, strategies, and technologies utilized I today's online environment. It covers various social networking platforms, content, and tools, and related security and privacy issues in social media. Students will learn how to use social media to reach personal and professional goals.

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, and loss of significance. Various numerical algorithms will be introduced. Prerequisites: MATH 233 and MATH 265 and admitted to the department.

310. GAME PROGRAMMING (Credit, 3 hours) This course introduces students to the design and implementation of video games. Topics include basic game artificial intelligence, storyboarding, graphics and animation programming and sound. This course will require significant programming. This course will be extremely hands-on with the goal of successfully implementing most of the material covered in the course. The final project of the course will be the implementation of a video game.

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: Consent from the Instructor.

318. COMPUTER ANIMATION (Credit, 3 hours). This course introduces students to the design and implementation of animations. Both programming and utilization of animation software will be covered with an emphasis on the latter. Topics include the history of animation and computer animation, understanding elemental topics in physics and geometry related to 3D animation, and understanding 3D computer animation techniques and algorithms. This course will require the use of 3D redering software such as Maya, Blender or Unity. This class will also cover the basics of animation programming using Java and OPENGL programming. This course will be extremely hands-on with the goal of successfully implementing most of the material covered in the course. The final project of the course will be the implementation of a computer animation projects.

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: CMPS 200, CMPS 302 or Consent from the Instructor.

335. WIRELESS SENSOR NETWORKS (Credit, 3 hours). This course will the principles of wireless sensor networks protocols and basic of security issues. The focus will be given to the following topics: hardware architecture orf sensor mote, memory management, power management. Students will learn various attacks and their solutions, applications of sensor networks, and advanced topics.

340. PRACTICAL EXPRIENCE II. (Credit, 3 hours). This course enables those students who enroll to gain first-hand experience while employing concepts and theory gained from intermediate coursework in computer science. This experience is achieved by the student successfully completing and assignment in business, industry or government over a period of one semester. Prerequisites. CMPS 300 or Consent from the Instructor.

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.

355. CYBER FORENSICS (Credit, 3 hours). This course will cover the introduction to the various aspects in the field of Internet/Cyber Forensics such as the rules and integritiy of evidence, legal processes, factual reporting of the information found and providing expert opinion in a court of law or other legal administrative proceedings and contemporary methods in the preservation, identification, extraction, interpretation, presentation, and documentation of computer evidence.

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 computation- ally intensive problems in science and engineering. Prerequisites: CMPS 191, MATH 264 and admit- ted to the department.

365. COMPUTERS, INFORMATION AND SOCIETY (Credit, 3 hours). This course will cover the policies, legal issues and legislation, 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: CMPS 334 and admitted to the department.

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: CMPS 201 and admitted to the department.

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: COMPS 370.

372. CLOUD COMPUTING (Credit, 3 hours). This course introduces students to the design and implementation of cloud computing solutions. Topics include virtualization, public and private clouds, use of cloud computing resources, data centers,

different cloud computing models, cloud computing storage solutions, security in cloud computing and IBM's Smart Cloud Computing. This course will also investigate motivating factors, benefits, challenges, Enterprise Software as a service and other service models of cloud computer. This course will be extremely hands-on with the goal of successfully using or implementing most of the material covered in the virtualization technologies such as Xen and VMWare. The final project of the course will be the implementation of a cloud computing solution.

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 counter-measures, risk mitigation, covert channels, identification and authentication, password schemes, access control lists, and data fusion techniques. Prerequisites: CMPS 334.

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 201 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. Prerequisite: CMPS 378 with a "C" or better.

382. STATISTICAL METHODS (Credit, 3 hours). A one-semester course in the design and analysis of experiments, employing various techniques such as probability analysis, confidence intervals, t-tests, analysis of variance and regression techniques as an aid to research in the behavioral, biological, and physical sciences. Prerequisites: SMPS 191 and math 264.

385. LEGAL ISSUES IN INFO TECH (Credit, 3 hours) The student will learn about the relevance of computer crime and intellectual property laws when a network is compromised. Analyze the new laws and cases on database breaches. Evaluate the policies and procedures enterprises must implement to protect proprietary data and IT resources. A highlight of this course is a legal review of the emerging topics of honeypots and active defenses, i.e., enterprises hacking back against hackers. By the end of the course, participants will have a functional knowledge of the issues that shape information security evolving standard of due care. A key goal is to help students factor in legal concerns when they draft enterprise IT security policies. Students will debate what the words of an enterprise policy mean from a legal perspective.

386. MODELING & SIMULATION (Credit, 3 hours). Current topics in modeling and simulation including statistical models, high performance computing and programming, simulation packages in material science and biomedical research, and result data analysis and processing.

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. Prerequisite: COMPS 370.

388. HUMAN-COMPUTER INTERACTION (Credit, 3 hours). Introduction to the principles of Human-Computer Interaction in interface design of standalone and web-based applications. The course includes discussion on psychological, physiological, cognitive, cultural, ergonomic, and design issues in computer usage. Various design and implementation methodologies will be examined and contrasted, and applied in applications to be developed as

coursework. The course will be project-driven and students will work on various team projects, and conduct testing on aspects of learning and usage of their software.

390. DATA BASE PROGRAMMING (Credit, 3 hours). This course covers the principles of data- base 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 text- book, lectures, labs, lab assignments and projects. Prerequisite: CMPS 201.

393. MOBILE CLIENT DEVELOPMENT (Credit, 3 hours). Introduce the concepts involved in Mobile Client Development, discussions around why mobile, what causes a business to go mobile, the components usually used in a mobile deployment, and the general usage patterns for a mobile application. (Two perspectives: Consumer based applications and enterprise based application).

394. MOBILE DEPLOYMENT (Credit, 3 hours). Introduce the concepts involved in Mobile Server Development, deployment and other inter-related dependencies that a server environment may require. Discussions around application development and deployment, communication methods, data exchange standards, logging, analytics, infrastructure concepts, troubleshooting, and interfacing with back-end systems will be discussed. Where applicable, there will be a call out difference between consumer infrastructure, enterprise infrastructure, and a discussion around using MBAASS (Mobile Back-end As a Service).

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 multiprocessor hardware configurations will be treated, as well as details on addressing techniques, core management, and file system design and management. Prerequisite: CMPS 302 and admitted to the department.

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: CMPS 302 or Consent from the Instructor.

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 and admitted to the department.

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. Prerequisite: CMPS 200 with a "C" or better and admitted to the department.

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. Prerequisite: CMPS 201 or Consent from the Instructor.

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. Prerequisites: CMPS 201 and CMPS 300.

422. INTRODUCTION TO DATA ANALYTICS (Credit, 3 hours). This course covers the knowledge of Big Data science. It serves as a senior level course for undergraduate students. The focus will be Big Data storage, processing, analysis, visualization, and applications. State-of-art computational frameworks for Big Data will be introduced to students. Students will learn the essentials of Big Data management, processing, and system reliability. Delivery of knowledge includes textbook, lectures, labs, lab assignments and projects. Prerequisite: CMPS 201.

425. ROBOTICS (Credit, 3 hours). This course introduces fundamental concepts in Robotics. Basic concepts will be discussed including coordinate transformations, sensors, path planning, kinematics, feedback and feed forward control, stressing the importance of integrating sensors, effectors and control. The last part of the course will focus on applying the knowledge from the initial lectures to the key approaches to mobile robot control (reactive, behavior-based, and hybrid), and briefly discuss robot learning and multi-robot systems. In the lab, robot kits will be used in weekly exercises illustrating lecture material; the last month of the lab will be spent in competition. This course is intended for undergraduate students with interests in Robotics, Visual Computing, and Artificial Intelligence.

426. NETWORK SECURITY (Credit, 3 hours). This course covers the principles of network security. The focus will be given to the following: attack methods (targeted hacking attacks, denial-of-service attack), firewall architecture, host security, cryptography, e-commerce and email security, intrusion detection and response process, risk analysis, security architecture, control principles, and laws governing security issues.

432. DISTRIBUTED PROCESSING (Credit, 3 hours). Topics include data communications principles, distributed processing networks, distributed databases, security, implementation, and management. Prerequisite: Prerequisite: CMPS 334.

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: CMPS 334.

434. NETWORKS AND GRAPH THEORY (Credit, 3 hours). The course is intended to illustrate how graph theory can be used to formulate and solve certain problems. The course consists of fundamental concepts of graph theory, some theorems concerning network flows, common and widely used algorithms for paths and trees, as well as flows and circuits. Direct computer implementation of the algorithms will be an integral part of the course. Prerequisites: CMPS 200 and MATH 233.

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: Departmental Permission Only.

436. PARALLEL COMPUTING AND APPLICATIONS (Credit, 3 hours). This course covers parallel programming paradigms, examining core concepts, focusing on a subset of widely used contemporary parallel programming models, and providing application in materials design, and biomedical research. Topics include parallel programming principles, Dell Linus cluster, GPU and CUDA, performance tune up of parallel codes in material science and biomedical research, and result data analysis and processing. Applications are drawn from diverse areas of science and engineering.

440. PRACTICAL EXPERIENCE III (Credit 3 hours). This course enables those students who enroll to gain first-hand experience while employing concepts and theory gained from advanced coursework in computer science. This experience is achieved by the student successfully completing an assignment in business, industry or government over a period of one semester. Prerequisites: Senior classification and approval of advisor.



450. CAPSTONE PROJECT PHASE I (Credit, 2 hours). Provide the opportunity for students to demonstrate that they have achieved the goals for learning established by the University and the Department. The course is designed to assess cognitive, effective, and psychomotor learning, and to do so in a student-centered and directed manner which requires the command, analysis, and synthesis of knowledge and skills. The capstone course described here integrates learning from courses in the major with the courses from the rest of the academic experience. It requires the application of that learning to a project which serves as an instrument of evaluation. The course fosters interdisciplinary partnerships among university departments and helps cultivate industry alliances and cooperation. Prerequisite: Student must be a senior having completed all the requirements of the three years in Computer Science.

451. CAPSTONE PROJECT PHASE II (Credit, 2 hours). Provide the opportunity for students to demonstrate that they have achieved the goals for learning established by the University and the Department. The course is designed to assess cognitive, effective, and psychomotor learning, and to do so in a student-centered and directed manner which requires the command, analysis, and synthesis of knowledge and skills. The capstone course described here integrates learning from courses in the major with the courses from the rest of the academic experience. It requires the application of that learning to a project which serves as an instrument of evaluation. The course fosters interdisciplinary partnerships among university departments and helps cultivate industry alliances and cooperation. Prerequisite: student must be a senior in his/her second semester in Computer Science second semester in Computer Science and have completed CMPS 450 with a grade of C or better. Prerequisite; Student must be a senior in his/her second semester in Computer Science and have completed CMPS 450 with a grade of "C" or better.

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. Prerequisite: Departmental Permission Only.

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.

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: Consent of instructor.

485. DISASTER RECOVERY (Credit, 3 hours). Provides the student with real world examples, and an extensive introduction to disaster recovery focusing on planning the team, planning for the disaster, and practicing the plan to make sure that, if ever needed, it will work.

493. FOUNDATIONS OF CRYPTOGRAPHY (Credit, 3 hours). This course provides a broad introduction to cornerstones of security (authenticity, confidentiality, message integrity and non-reputation) and the mechanisms to achieve them as well as the underlying mathematical basics. Topics include: block and stream ciphers, public-key systems, key management, certificates, trusted third party public-key infrastructure, digital signature, non-reputation, and message authentication. Various security standards and protocols (DES, AES, PGP, and Kerberos) are introduced.

494. CRYPTOGRAPHIC PROTOCOLS (Credit, 3 hours). This course covers the design and analysis of secure protocols, and studies different attacks and defenses against them. Topics include: signature and authentication protocols, privacy, digital rights management, security protocols for wired, wireless and distributed networks, electronic voting, payment and micropayment protocols, anonymity, broadcast encryption and traitor tracing, quantum cryptography, and visual cryptography. This course includes a project.

495. ENTERPRISE SECURITY PROTOCOLS (Credit, 3 hours). Introduction to security management of computer and network systems. Protocols, specifications, security evaluations are discussed. Other topics include attacks, threats and the security of buildings and facilities.

496. INTERNET SECURITY PROTOCOLS (Credit, 3 hours). Topics include secret key and public key cryptography, hash algorithms, authentication. Kerberos V 4 and V5, pretty good privacy, information hiding, IPSEC/NP, IPSEC key exchange, SSL/TLS, PEM & S/MIME, firewall, intrusion tracing and response, worms and virus, and security measurements.

## **CRIMINAL JUSTICE (CRJU)**

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. Pre-requisites: CRJU 201

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.

245. CRIMINAL LAW (Credit, 3 hours). This course involves the study of the substantive criminal law, including definitions, punishment and defenses to crimes. Also examined in this course are the general principles and specific elements of crimes, the most frequently used sections of the State Codes(s) of Criminal Law and the Model Penal Code (with emphasis placed on person and property crimes of the FBI's Uniform Crime Reports). Finally, this course will study the affect and/or impact of the U.S. Constitution on the creation and enforcement of criminal laws. Pre-requisites: CRJU 201.

247. CRIMINAL PROCEDURE (Credit, 3 hours). This course is designed to guide the student through an in-depth study of some of the major areas of criminal procedure such as a pre-arrest investigation, search and seizure, arrest. Students will also be provided information regarding the pre-trial process including bail, pretrial hearings and motions, indictments, right to counsel, police interrogation, confessions, suspect identification process and other related laws, Constitutional Amendments and legal concepts. Also discussed are the roles of the major players in the U.S. adversarial system, i.e. prosecution, defense, etc. Pre-requisites: CRJU 201.

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.

210. 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 bibliography provides a wide range of internet resources and links to further explore and examine topics and issues in corrections at an international level. Pre-requisites: CRJU 201

211. 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. Pre-requisites: CRJU 201.

212. 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. Pre-requisites: CRJU 201.

232. 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. Pre-requisites: CRJU 201.

234. 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.

240. 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: CRJU 201.

246. 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 201.

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. Prerequisites: CRJU 201, CRJU 210, and CRJU 211.

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. Prerequisites: CRJU 201, 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. Prerequisites: CRJU 201.

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 201, CRJU 211.

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 answering 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. Prerequisites: CRJU 201.

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. Prerequisites: CRJU 201

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. Permission by department only.

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. Permission by department only.

400. PUBLIC/PRIVATE SECTOR PRACTICUM (Credit, 3 hours). This course is utilized for students to apprentice in real world operations. Prerequisites CRJU 201, 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 201, CRJU 211, 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 201, CRJU 210.

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 201, CRJU 210.

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 201, CRJU 211.

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 201, CRJU 240.

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 201, 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 201, CRJU 211, 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 201, CRJU 211, 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 201, CRJU 245, CRJU 247.

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: CRJU 201, Junior class standing.

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 201, CRJU 240.

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: CRJU 201, CRJU 357. 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. Pre-requisite: CRJU 201, 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 and portfolio development. The prospective teacher education candidates prepare for the PRAXIS I examination.

211. PRINCIPLES OF EDUCATION (Credit, 2 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, preventive 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 co-operating 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, 1 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



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 awareness 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**

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, microteaching, 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. This course will also be guided by the components of the college's conceptual framework, NMSA, NCTE/IRA, 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 effectively use 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 all language abilities – reading, writing, speaking, and listening, and visually presenting and viewing.

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 MACRO 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 MICRO 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. Pre-requisite: 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, ECON 275.

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, super-position, 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. Pre-requisite: 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. Co-requisite: ELEN 208.

211. ELECTRICAL CIRCUITS LABORATORY II (Credit, 1 Hour) (Lab., 3 hours). Experiments concerning principles taught in ELEN 209. The laboratory will cover AC electric laws; transient and steady-state responses of RLC networks and sinusoidal AC networks containing resistance, capacitive, and inductive circuit elements. Prerequisite: ELEN 210, Co-requisite: 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.

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.

304. INTRODUCTION TO MICROPROCESSORS (Credit, 3 hours). Presents the use of micro-processors to cover topics in computer hardware and software. Students learn about the microprocessor and its architecture. Students will also learn syntax of various assembly language commands and then be expected to write programs in assembly language. Prerequisite: ELEN303.

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. Co-requisite: 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. Co-requisite: ELEN 304.

312. ENGINEERING ELECTRONICS I (Credit, 3 hours). An introduction to electronic devices, diodes, bipolar junction transistors, and field-effect transistors. A study of the characteristics, uses, and models for each and computer modeling of these employing PSPICE or its equivalent.

Prerequisites: ELEN 209 and 212.

313. ENGINEERING ELECTRONICS II (Credit, 3 hours). Covers equivalent circuits of devices, comparisons of BJTs and FETs, differential and multistage amplifiers, frequency and transient response of small signal amplifiers, and active filters. Introduction to communication systems, and computer modeling of electronic systems using PSPICE or its equivalent. Prerequisite: ELEN 312.

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. Prerequisite: ELEN 314, Co-requisite: ELEN 313.

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 341 [or Co-requisite: ELEN 324 if the course number of ELEN 341 changes to ELEN 324].

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. Co-requisite: ELEN 342.

352. FUNDAMENTALS OF ELECTRICAL ENGINEERING (Credit, 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.

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 390.

406. DIGITAL SIGNAL FILTER DESIGN LABORATORY (Credit, 1 hour). (Lab, 3 hours) 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 or ELEN 412
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 313.
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 418.
421. TEST ENGINEERING FOR MIXED SIGNAL CIRCUITS (Credit, 3 hours) Modern Analog and Mixed Signal technologies, an introduction to test electrical characteristics of integrated circuits and devices incorporating both digital and analog functions. Mixed signal IC tests are very sensitive to structural details and hence to fabrication techniques. This course concentrates on how circuits are tested and on what future changes are likely. Pre-requisite: ELEN313, ELEN 390 and ENGR 340.
- 422 . TEST ENGINEERING FOR MIXED SIGNAL CIRCUITS LABORATORY (Credit, 1 hour) (Lab, 3 hours). Experiments and demonstration of basic sub-systems of Analog and Mixed Signal Test Engineering including audio power amplifiers, differential amplifiers, modulators, transmitters, and receivers. Prerequisites: ELEN 313, ELEN 390, ENGR 340; Co-requisite: ELEN 421.
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 341.
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 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). 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.

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.

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.

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 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. Co-Requisites: ELEN 400 or 473. Must have per- mission 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.

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, 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: ELEN 304, 313, 390 or consent of instructor.

494. SENIOR DESIGN PROJECT II (Credit, 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:

## **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 MKTG 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 data- base administration. Prerequisites: MGMT 300, COMPS 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, COMPS 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, COMPS 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.

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.

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, COMPS 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, COMPS 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, COMPS 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 online payment systems, firewalls, and network security. Prerequisites: MGMT 300, COMPS 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 COMPS 290.

### **ELECTRONICS ENGINEERING TECHNOLOGY (EENT)**

110. DCCIRCUITANALYSIS (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, Kirchhoff'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. Multisim EWB simulation applications are covered. Concurrent with EENT 110.

210. AC CIRCUIT ANALYSIS (Credit, 3 hours) (Lec. 3 hours). Complex numbers, Sinusoidal ac waveforms, Series, parallel, and series-parallel ac circuits, ac power, power factor and correction, Resonance, 3-phase circuits, and introduction to transformers. Prerequisites: EENT 110, MATH 140.

211. ACCIRCUIT LABORATORY (Credit, 1 hour) (Lab, 3 hours). A laboratory study of selected topics studied in EENT 210. Multisim EWB simulation applications are covered. Prerequisites: EENT 111. Concurrent with EENT 210.

212. ELECTRONIC CIRCUITS I (Credit, 3 hours) (Lec. 3 hours). Theory and applications of semiconductor diodes in various rectifier and filter circuits. Special purpose diodes and their applications. Bipolar Junction Transistor (BJT): Fundamentals, Biasing Techniques, AC Models, and Amplifier analysis. JFETs and MOSFETs: Characteristics, Biasing, AC models, Amplifier analysis, and applications. Concurrent with or Credit in EENT 210.

213. ELECTRONIC CIRCUITS LABORATORY I (Credit, 1 hour) (Lab, 3 hours). Covers selected experiments illustrating theory covered in EENT 212. Multisim EWB simulation applications are covered Concurrent with EENT 212. Prerequisite: EENT 111.

216. ELECTRONIC CIRCUITS II (Credit, 3 hours) (Lec. 3 hours). Review of Amplifier circuits using BJTs, JFETs, and MOSFETs, Multistage amplifiers, Frequency effects in Amplifiers, Operational Amplifiers and their circuit applications, Active Filters, and Regulated Power Supplies. Prerequisite: EENT 212. Prerequisite: EENT 212.

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). This course will introduce the number systems and codes, logic gates functions, Boolean algebra and reduction techniques, digital logic design concepts, arithmetic systems designs and applications, encoder/decoder designs, flip-

flops functions, sequential logic systems, and VHDL program design for rapid prototyping on Complex Programmable Logic Device. 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 continuation 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. Prerequisite: EENT 210.

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 and/or EWB simulation applications. Some Lab Demonstrations and lab work included. 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 the inner world of microprocessors and microprocessor support components Introduction to assembly language programming is included. 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 MATH264.

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. Concepts of convolution, autocorrelation, and cross-correlation will be introduced. Fundamentals of Z and Laplace transforms and their properties will be introduced. 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). This course covers the fundamentals of embedded systems and robotics. It focuses on working knowledge of microcontrollers and their application, hardware/software interfacing, control systems, and the design of robotic devices. 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. Co-requisite: EENT 380.

390. DIGITAL COMMUNICATIONS (Credit, 3 hours) (Lec. 3 hours). This course will review the fundamentals of communication systems which includes signals power and spectral analysis, noise in communication system, superhetrodyn receiver, frequency synthesis technology, oscillators and mixers, sampling theorem, pulse modulation techniques, TDM-PAM system, pulse-coded modulation, PCM-TDM system, line encoders, information rate, channel capacity, and principles of binary and M-ary systems in digital communication. Prerequisite: EENT 216 and MATH264.

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, MATH264.

404. ADVANCED ELECTRONICS CIRCUIT ANALYSIS and DESIGN (Credit, 3 hours). Analysis and design of biasing circuits for BJT and FET, analysis of CE, CC, CS, CD, and multistage amps at low, mid, and high frequencies, Design of CE and CC amps, and PSpice and/or EWB applications. Prerequisites: EENT 216 and MATH 264.

434. SELECTED TOPICS IN ELECTRONIC TECHNOLOGY (Credit, 3 hours). Topics in electronics engineering technology not regularly covered in other courses. Prerequisites: EENT 216, MATH 264.

450. CONTROL SYSTEM TECHNOLOGY (Credit, 3 hours) (Lec. 3 hours). Basic concepts, Block Diagrams- simplifications and op-amp simulations, Laplace Transforms, Mathematical Modeling. Transient and Frequency Responses, Common Transfer Function and their time/frequency responses, Stability analysis, PID controllers and MATLAB applications relating to control system 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). This course covers the fundamentals of

computer networking system and technology. It introduces networking models, standards, network devices, network services, TCP/IP protocols, IP addressing, switching concepts, switch configuration, routing protocols, router configuration, and virtual networks. Prerequisite: EENT 220

481. COMPUTER NETWORKING LABORATORY (Credit, 1 hour) (Lab, 3 hours). Covers selected experiments and practical exercises in networking systems and technology. Co-Requisite: EENT 480.

486. COMPUTER SECURITY AND DATA PROTECTION (Credit, 3 hours) (Lec. 2 hours). To provide students with the knowledge of computer and information security systems. Topics include network security fundamentals, defense technology, principles of network auditing, security policies and risk management, concepts of traffic signature analysis, VPN design and architecture, methods of using IDS, firewall concepts and implementation, cryptography, and recent advances in information security systems. 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. Demonstration and simulations of some selected experiments is included. 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, Antenna Design, Doppler Radar, Satellite Communication Systems, Spread Spectrum Techniques, Cellular Radio System, WPAN, WMAN, WLAN, RFID and Wireless Sensor Networks. 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

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, 2 hours) (Lec. 1 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) Course is designed to introduce engineering and technology as a profession, the engineering design process and its application to problem solving and engineering ethics.

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 264.

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. This course also covers the preparation and delivery of professional oral presentations using visual aids and computer technology. Prerequisite(s): 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: MATH265.

330. DIFFERENTIAL EQUATIONS FOR ENGINEERS (Credit, 3 hours). This course in differential equations begins with some fundamental definitions and terminology and then progresses to finding solutions to first order and higher order differential equations. Various methods such as separation variables, variation of parameters, power series, and Laplace transforms are used to solve these equations. Students also learn how to construct differential equations from real world engineering problems and then find solutions to these equations. Prerequisites: MATH 364.

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). 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: CIEN 482 or ELEN 493 or MEEN 450.

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: Consent of Instructor.

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: Consent of Instructor.

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 re- vising 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, 1 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. Prereq- uisites: 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 begin- ning 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)**

100. ORIENTATION TO FAMILY AND CONSUMER SCIENCES (Credit, 2 hours). Team-taught. Designed to give an overview of the profession, the land-grant system and the profession's body of knowledge; an exploration of current and future issues that impact families and consumers and an exploration of careers in family and consumer sciences.

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.

210. 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.

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, 3 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, ap- parel, 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 hours; 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. FOOD PRODUCTION MANAGEMENT (Credit, 3 hours) (Lec., 2 hours; Lab., 3 hours). Menu development; development, standardization, adjustment and costing of quantity recipes, procurement, production, distribution, and service of quality food; work simplification; commercial equipment use; foodservice computer applications; safety and sanitation. Culinary techniques. Application of food production. 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 ACROSS THE LIFESPAN (Credit, 3 hours) (Lec., 2 hours; 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.

338. NUTRITION ASSESSMENT. (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). Introduction to the purpose, methods and scientific basis for assessment of nutritional status in total health care for individuals and groups. Application of nutrition assessment principles and techniques to initiate the nutrition care process. Prerequisite: FCSC 332, 336.

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.

346. FOOD SERVICE MANAGEMENT (Credit, 4 hours) (Lec., 3 hours; Lab., 3 hours). Managerial and systems approach in food service operations with emphasis on management of human and financial resources; application of managerial and administrative principles to food

service operations. Food facilities planning and design and equipment selection. Prerequisites:  
FCSC 220.

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 STUDY OF FOOD** (Credit, 3 hours) (Lec., 2 hours; Lab., 3 hours). Technological advances, chemical and physical structure of food and the effect of processing and preparation on food and food quality. Application of objective and subjective techniques in defining the problem and testing the hypothesis in carefully designed food experiments and



analyzing,

inter- preting and reporting results. Planning, executing, and reporting of an independent research prob- lem. Prerequisite: BIOL 230, FCSC 220, CHEM 128, 129 or 132 and 133.

425. FOOD AND BEVERAGE MANAGEMENT (Credit, 3 hours). (Lec., 2 hours; 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 liter- ature 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 nu- trition 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 merchan- dise. Includes specific activities that impact upon profit and loss of business and industry. Prerequi- site: FCSC 304 and 442.

450. PRACTICUM (Credit, 3 hours) (Lec. 3 hours). Supervised experience designed for application of food, nutrition and management in various practice settings. Experience individualized according to the concentration of the student. Prerequisites FCSC 322, 346, 435, 439.

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, bakerís 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 MER- CHANDISING 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.

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.

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.

493. **FAMILY AND CONSUMERS SCIENCES PERSPECTIVES** (Credit, 2 hours). Professional aspects, philosophical base, public policy 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.

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 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 elec- tive.

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 manage-ment, 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; under- writing and pricing; organizations and administration of insurers; the insurance contract; and the influence of public policy and government regulation. Prerequisites: 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 soft- ware 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 o 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 com- position, 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 of- fers students the opportunity to undertake inde- pendent 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 the elementary structures in the French language. Emphasis on listening comprehension, pronunciation, basic vocabulary and grammar structures necessary for developing oral proficiency 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 100 or credit exam.

103. INTENSIVE ELEMENTARY FRENCH I=II (Credit, 6 hours). Introduction and development of elementary structures in the French Language. Emphasis on listening comprehension, pronunciation, basic vocabulary and grammar structures necessary for developing oral proficiency, reading and writing skills. Students will be directed to use multi- media materials available in the computer lab. Lab work required.

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.

202. FRENCH PHONETICS (Credit, 3 hours). Analysis of French Phonetic principles with extensive practice and corrective drills within the language laboratory. Focus is on the problems of teaching French pronunciation to English- speaking students Prerequisites: FREN 200 or equivalent.

214. CODE 1 – FRENCH FOR BUSINESS (Credit, 3 hours). First course in a series designed to introduce the Business major/minor and/or French major/minor to the use of French language and culture in the context of the world of business, in order to better prepare them for a globalized economy and job market. Prerequisites: None. Enrollment is limited to Business French majors and minors.

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 use of



French language and culture in the context of world of business, in order to prepare them for a globalized

economy and job market. Prerequisites: FREN 214 or Equivalent. Enrollment is limited to Business French majors and minors.

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. Cultural readings for conversation and discussion In French compositions exercises and translations, laboratory work, oral drills and written exercises. Prerequisite: FREN 200-201 or equivalent.

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.

### **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.

### **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 prehistoric 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.

### **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, COMPS 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.

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, COMPS 290.

341. DEVELOPMENT OF BUSINESS INFORMATION (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, COMPS 290.

260. 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: COMPS 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.

440. DECISION SUPPORT 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, COMPS 290.

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: COMPS 290 and MGMT 300 or equivalent.

443. BUSINESS DATA COMMUNICATIONS & SECURITY (Credit, 3 hours). This course pro-

vides 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: COMPS 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 PLANING (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, COMPS 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: MGMT360.

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.

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### **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 MKTG 312.

343. 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 data-base administration. Prerequisites: MGMT 300, COMPS 290.

344. 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, COMPS 290.

345. 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, COMPS 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.

447. 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.

448. 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, COMPS 290.

449. 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, COMPS 290.

450. 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, COMPS 290.

451. 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 online payment systems, firewalls, and network security. Prerequisites: MGMT 300, COMPS 290.

452. 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.

453. 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 COMPS 290.

### **ELECTRONICS ENGINEERING TECHNOLOGY (EENT)**

112. DCCIRCUITANALYSIS (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, Kirchhoff's current and voltage law, capacitors, and inductors. Prerequisites: MATH 135.

113. DC CIRCUIT ANALYSIS LABORATORY (Credit, 1 hour) (Lab, 3 hours). A laboratory study of selected topics studied in EENT 110. Multisim EWB simulation applications are covered. Concurrent with EENT 110.

214. AC CIRCUIT ANALYSIS (Credit, 3 hours) (Lec. 3 hours). Complex numbers, Sinusoidal ac waveforms, Series, parallel, and series-parallel ac circuits, ac power, power factor and correction, Resonance, 3-phase circuits, and introduction to transformers. Prerequisites: EENT 110, MATH 140.

215. ACCIRCUIT LABORATORY (Credit, 1 hour) (Lab, 3 hours). A laboratory study of selected topics studied in EENT 210. Multisim EWB simulation applications are covered. Prerequisites: EENT 111. Concurrent with EENT 210.

216. ELECTRONIC CIRCUITS I (Credit, 3 hours) (Lec. 3 hours). Theory and applications of semiconductor diodes in various rectifier and filter circuits. Special purpose diodes and their applications. Bipolar Junction Transistor (BJT): Fundamentals, Biasing Techniques, AC Models, and Amplifier analysis. JFETs and MOSFETs: Characteristics, Biasing, AC models, Amplifier analysis, and applications. Concurrent with or Credit in EENT 210.

217. ELECTRONIC CIRCUITS LABORATORY I (Credit, 1 hour) (Lab, 3 hours). Covers selected experiments illustrating theory covered in EENT 212. Multisim EWB simulation applications are covered Concurrent with EENT 212. Prerequisite: EENT 111.

218. ELECTRONIC CIRCUITS II (Credit, 3 hours) (Lec. 3 hours). Review of Amplifier circuits using BJTs, JFETs, and MOSFETs, Multistage amplifiers, Frequency effects in Amplifiers, Operational Amplifiers and their circuit applications, Active Filters, and Regulated Power Supplies. Prerequisite: EENT 212. Prerequisite: EENT 212.

219. 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.

222. DIGITAL LOGIC DESIGN (Credit, 3 hours) (Lec. 3 hours). This course will introduce the number systems and codes, logic gates functions, Boolean algebra and reduction techniques, digital logic design concepts, arithmetic systems designs and applications, encoder/decoder designs, flip-

flops functions, sequential logic systems, and VHDL program design for rapid prototyping on Complex Programmable Logic Device. Prerequisite: EENT 212.

223. 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 continuation 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. Prerequisite: EENT 210.

312. 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.

313. ANALOG COMMUNICATIONS LABORATORY (Credit, 1 hour) (Lab, 3 hours). Presents selected lab experiments illustrating theory covered in EENT 310. Prerequisite: EENT 217.

318. 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 and/or EWB simulation applications. Some Lab Demonstrations and lab work included. Prerequisites: EENT 216, MATH 264.

319. 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.

320. MICROPROCESSORS (Credit, 3 hours). Presents an introduction to the inner world of microprocessors and microprocessor support components Introduction to assembly language programming is included. Prerequisite: EENT 220.

321. 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 MATH264.

362. 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.

363. 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.

372. 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. Concepts of convolution, autocorrelation, and cross-correlation will be introduced. Fundamentals of Z and Laplace transforms and their properties will be introduced. Prerequisites: MATH 265 and EENT 210.

373. 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.

382. COMPUTER SYSTEMS TECHNOLOGY (Credit, 3 hours). This course covers the fundamentals of embedded systems and robotics. It focuses on working knowledge of microcontrollers and their application, hardware/software interfacing, control systems, and the design of robotic devices. Prerequisites: EENT 316.

383. COMPUTER SYSTEMS TECHNOLOGY LABORATORY (Credit, 1 hour) (Lab, 3 hours). Laboratory exercises implementing the theory from the lecture segment will be assigned. Co-requisite: EENT 380.

390. DIGITAL COMMUNICATIONS (Credit, 3 hours) (Lec. 3 hours). This course will review the fundamentals of communication systems which includes signals power and spectral analysis, noise in communication system, superhetrodyn receiver, frequency synthesis technology, oscillators and mixers, sampling theorem, pulse modulation techniques, TDM-PAM system, pulse-coded modulation, PCM-TDM system, line encoders, information rate, channel capacity, and principles of binary and M-ary systems in digital communication. Prerequisite: EENT 216 and MATH264.

393. 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.

394. 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, MATH264.

404. ADVANCED ELECTRONICS CIRCUIT ANALYSIS and DESIGN (Credit, 3 hours). Analysis and design of biasing circuits for BJT and FET, analysis of CE, CC, CS, CD, and multistage amps at low, mid, and high frequencies, Design of CE and CC amps, and PSpice and/or EWB applications. Prerequisites: EENT 216 and MATH 264.

434. SELECTED TOPICS IN ELECTRONIC TECHNOLOGY (Credit, 3 hours). Topics in electronics engineering technology not regularly covered in other courses. Prerequisites: EENT 216, MATH 264.

450. CONTROL SYSTEM TECHNOLOGY (Credit, 3 hours) (Lec. 3 hours). Basic concepts, Block Diagrams- simplifications and op-amp simulations, Laplace Transforms, Mathematical Modeling. Transient and Frequency Responses, Common Transfer Function and their time/frequency responses, Stability analysis, PID controllers and MATLAB applications relating to control system 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). This course covers the fundamentals of

computer networking system and technology. It introduces networking models, standards, network devices, network services, TCP/IP protocols, IP addressing, switching concepts, switch configuration, routing protocols, router configuration, and virtual networks. Prerequisite: EENT 220

481. COMPUTER NETWORKING LABORATORY (Credit, 1 hour) (Lab, 3 hours). Covers selected experiments and practical exercises in networking systems and technology. Co-Requisite: EENT 480.

486. COMPUTER SECURITY AND DATA PROTECTION (Credit, 3 hours) (Lec. 2 hours). To provide students with the knowledge of computer and information security systems. Topics include network security fundamentals, defense technology, principles of network auditing, security policies and risk management, concepts of traffic signature analysis, VPN design and architecture, methods of using IDS, firewall concepts and implementation, cryptography, and recent advances in information security systems. 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. Demonstration and simulations of some selected experiments is included. 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, Antenna Design, Doppler Radar, Satellite Communication Systems, Spread Spectrum Techniques, Cellular Radio System, WPAN, WMAN, WLAN, RFID and Wireless Sensor Networks. 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

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, 2 hours) (Lec. 1 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) Course is designed to introduce engineering and technology as a profession, the engineering design process and its application to problem solving and engineering ethics.

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 264.

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. This course also covers the preparation and delivery of professional oral presentations using visual aids and computer technology. Prerequisite(s): 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: MATH265.

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). 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: CIEN 482 or ELEN 493 or MEEN 450.

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: Consent of Instructor.

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: Consent of Instructor.

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 re- vising expressive, informative, analytical and argumentative essays. Special sections designated for honors students.

202. 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.

203. 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.

209. 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.

210. INTRODUCTION TO FICTION (Credit, 1 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.

211. 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.

212. 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.

213. 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.

214. 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.

352. 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.

353. 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.

402. 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.

403. 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. Prerequisite: 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)**

100. **ORIENTATION TO FAMILY AND CONSUMER SCIENCES** (Credit, 2 hours). Team-taught. Designed to give an overview of the profession, the land-grant system and the profession's body of knowledge; an exploration of current and future issues that impact families and consumers and an exploration of careers in family and consumer sciences.

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.

210. **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.

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, 3 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.

323. 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.

324. 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.

325. FOOD PRODUCTION MANAGEMENT (Credit, 3 hours)(Lec., 2 hours; Lab., 3 hours). Menu development; development, standardization, adjustment and costing of quantity recipes, procurement, production, distribution, and service of quality food; work simplification; comencial equipment use; foodservice computer applicatio- ins; safety and sanitation. Culinary techniques. Application of food production. 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 ACROSS THE LIFESPAN (Credit, 3 hours) (Lec., 2 hour; Lab., 2 hours). Nutrient requirements across the lifespan. Nutritional genomics and physiological outcomes during hu- man development and aging. The assessment of nutritional status in healthy individuals. Laboratory experiences in food composition and assess- ment of dietary intake, body composition, and biochemical indices of nutritional status. Prerequisite: FCSC 332.

338. NUTRITION ASSESSMENT. (Credit, 3 hours) (Lec., 2 hour; Lab., 2 hours). Introduction to the purpose, methods and scientific basis for as- sessment of nutritional status in total health care for individuals and groups. Application of nutri- tion assessment principles and techniques to initiate the nutrition care process. Prerequisite: FCSC 332, 336.

340. TEXTILES (Credit, 3 hours) (Lec., 2 hours; Lab., 2 hours). A study of the physical and chemi- cal 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.

347. FOOD SERVICE MANAGEMENT (Credit, 4 hours) (Lec., 3 hours; Lab., 3 hours). Managerial and systems approach in food service op- erations with emphasis on management of human and financial resources; application of managerial and administrative principles to food

service operations. Food facilities planning and design and equipment selection. Prerequisites:  
FCSC 220.

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 STUDY OF FOOD (Credit, 3 hours) (Lec., 2 hour; Lab., 3 hours). Technological advances, chemical and physical structure of food and the effect of processing and preparation on food and food quality. Application of objective and subjective techniques in defining the problem and testing the hypothesis in carefully designed food experiments and



analyzing,

inter- preting and reporting results. Planning, executing, and reporting of an independent research prob- lem. Prerequisite: BIOL 230, FCSC 220, CHEM 128, 129 or 132 and 133.

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 liter- ature 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 nu- trition 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 merchan- dise. Includes specific activities that impact upon profit and loss of business and industry. Prerequi- site: FCSC 304 and 442.

450. PRACTICUM (Credit, 3 hours) (Lec. 3 hours). Supervised experience designed for application of food, nutrition and management in various practice settings. Experience individualized according to the concentration of the student. Prerequisites FCSC 322, 346, 435, 439.

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, bakerís 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 MER- CHANDISING 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.

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.

500. **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.

501. **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.

502. **FAMILY AND CONSUMERS SCIENCES PERSPECTIVES** (Credit, 2 hours). Professional aspects, philosophical base, public policy 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.

503. **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.

504. **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.

505. **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.

506. **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.

507. **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 of food service case studies.

508. **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)**

132. **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.

133. **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 elec- tive.

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 manage-ment, 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; under- writing and pricing; organizations and administration of insurers; the insurance contract; and the influence of public policy and government regulation. Prerequisites: 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 soft- ware 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 o 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)**

102. ELEMENTARY FRENCH I (Credit, 3 hours). Introduction to the elementary structures in the French language. Emphasis on listening comprehension, pronunciation, basic vocabulary and grammar structures necessary for developing oral proficiency 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.

103. 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 100 or credit exam.

103. INTENSIVE ELEMENTARY FRENCH I=II (Credit, 6 hours). Introduction and development of elementary structures in the French Language. Emphasis on listening comprehension, pronunciation, basic vocabulary and grammar structures necessary for developing oral proficiency, reading and writing skills. Students will be directed to use multimedia materials available in the computer lab. Lab work required.

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.

202. FRENCH PHONETICS (Credit, 3 hours). Analysis of French Phonetic principles with extensive practice and corrective drills within the language laboratory. Focus is on the problems of teaching French pronunciation to English-speaking students Prerequisites: FREN 200 or equivalent.

214. CODE 1 – FRENCH FOR BUSINESS (Credit, 3 hours). First course in a series designed to introduce the Business major/minor and/or French major/minor to the use of French language and culture in the context of the world of business, in order to better prepare them for a globalized economy and job market. Prerequisites: None. Enrollment is limited to Business French majors and minors.

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 use of



French language and culture in the context of world of business, in order to prepare them for a globalized

economy and job market. Prerequisites: FREN 214 or Equivalent. Enrollment is limited to Business French majors and minors.

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. Cultural readings for conversation and discussion In French compositions exercises and translations, laboratory work, oral drills and written exercises. Prerequisite: FREN 200-201 or equivalent.

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.

### **FRESHMAN STUDIES (FRMN)**

112. 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.

113. 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.

### **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)**

106. AMERICAN HISTORY (Credit, 3 hours). A survey of American history from the European settlement of North America to 1865.

107. AMERICAN HISTORY (Credit, 3 hours). A continuation of HIST 104 with emphasis upon the period from 1865 to the present.

116. HISTORY OF CIVILIZATION (Credit, 3 hours). A survey of world civilization from prehistoric time to circa 1500.

117. HISTORY OF CIVILIZATION (Credit, 3 hours). A continuation of HIST 114 with emphasis on civilization from 1500 to the present.

226. 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.

227. 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.
402. 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.
403. 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.

489. HISTORY OF RUSSIA (Credit, 3 hours). A study of Russian history from earlier times to present.

490. EUROPEAN IMPERIALISM (Credit, 3 hours). A study of colonial and modern imperialism and the impact of neocolonialism.

491. HISTORY OF EAST AFRICA (Credit, 3 hours). A study of ancient, colonial, and modern East Africa.

492. PROBLEMS IN AMERICAN SOCIAL AND INTELLECTUAL HISTORY SINCE 1900 (Credit, 3 hours). Major social and intellectual problems in American life and thought.

493. 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.

494. 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.

495. HISTORY OF THE MIDDLE EAST (Credit, 3 hours). A study of the Middle East from the rise of Islam to modern times.

496. 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 prehistoric 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.

### **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.

307. 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, COMPS 290.

308. 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.

314. 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.

315. 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.

342. 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, COMPS 290.

343. DEVELOPMENT OF BUSINESS INFORMATION (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, COMPS 290.

260. 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: COMPS 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.

440. DECISION SUPPORT 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, COMPS 290.

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: COMPS 290 and MGMT 300 or equivalent.

443. BUSINESS DATA COMMUNICATIONS & SECURITY (Credit, 3 hours). This course pro-

vides 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: COMPS 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 PLANING (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, COMPS 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: MGMT360.

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.

## 276 SOUTHERN UNIVERSITY

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

225. INTRODUCTION TO RADIO (Credit, 3 hours). Introduction to radio is designed to introduce students to the history and current status of the radio industry. In addition, this course will establish the standards of operating and managing a radio station as well as provide hands on experience with basic control room operations in the on-air and off-air production studios. Prerequisites: MCOM 202 and 211.

230. WRITING FOR THE ELECTRONIC MEDIA (Credit, 3 hours). Writing for the Electronic Media is an introductory instruction in writing news copy for radio and television commercials, public service announcements and promotional messages. The course combines lecture and laboratory work to cover a broad range of content in these areas. Prerequisite: MCOM 202 and 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: MCOM211.

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: MCOM211.

308. NEWS EDITING (Credit, 3 hours) (Lec., 1 hour; Lab, 2 hours). Basic course in editing copy for newspapers. Prerequisites: MCOM211.

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.

322. BROADCAST NEWS WRITING (Credit, 3 hours). Broadcast News Writing provides students with the techniques of writing news scripts in both radio and television imagination and creative writing skills. Prerequisite: MCOM230

325. COMPUTER-ASSISTED REPORTING. (Credit, 3 hours). Focuses on the use of online resources and public and private databases for news-gathering, analysis and reporting. Prerequisite: MCOM 211, COMPS 105

328. ELECTRONIC FIELD PRODUCTION. (Credit, 3 hours). Production provides students the opportunity to practice the fundamentals of television field production techniques. Students gain proficiency in camera operation, lighting, sound and videotape editing.

330. BROADCAST NEWS REPORTING AND NEWSCASTING. (Credit, 3 hours). This course focuses on instruction in the techniques of news gathering and live reporting. Students will receive real-world news anchoring experience in a television studio setting. Students work toward developing an anchoring and reporting sample that will become part of their professional tape. This course is designed to impart practical experience upon the student that will advance a career in broadcast journalism. Prerequisite: MCOM 328

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. Pre-requisites: 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.

455. MULTI-CAMERA PRODUCTION (Credit, 3 hours). Multi-Camera Production teaches the techniques of multi-camera for studio and/ or location production. Preparatory, practical and technical and theoretical issues regarding pre-production, production and directional work for live television are taught. Multi-Camera-Production offers student and strong foundation in multi-camera television production, including developing ideas, conceptualizing, script writing, scheduling and crew management. Students will write report, shoot, edit, anchor and produce television news. It is understood that students enrolled in this course already know how to write news stories, shoot and perform, non-linear editing. Prerequisite: MCOM 228 and 330

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.

494. CONVERGENT MEDIA (Credit, 3 hours). The course concentrates on the use of computers and other tools to produce content for online journalism that reflect understanding of the use of audio, print graphics and video on Web environment. Prerequisite: Senior status.

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.

160. COLLEGE ALGEBRA AND TRIGONOMETRY (Credit, 5 hours). This is a one-semester course in precalculus mathematics that covers essentially the content of both Math 135 and Math

140. Passing Math 160 is equivalent to passing the sequence 135 and 140. Prerequisite: A passing score on the Mathematics Placement Examination or consent of Department.

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, with a "C" or better or MATH 200 with a "C" better.

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 TO 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: Grade of "C" or better in 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 graduation 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 Weierstrauss.

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 FOR 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 ENGINEERS (Credit, 3 hours). Study of digital computations and applied numerical methods. 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, 2 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.

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. Design of Fluid Mechanics experiments will be assigned. 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 turbo-machinery. 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, MEEN 235.

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) (Lec., 3 hours; Lab, 3 hours). Presents an introduction to heat transfer by conduction, convection, and radiation; and steady and unsteady state heat flow, condensation, and boiling. Individual/team projects will be assigned. Design of Heat Transfer experiments will be assigned. Prerequisites: MEEN 312

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, ENGR 340, and MEEN 356.

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, and other current engineering topics. 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: Consent of instructor.

### **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 multi-media 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. Prerequisite: 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 counter-point. 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 human- ties 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, diction, 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 musician-ship 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 Stermberg. 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. Candenza 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 arpeggios, and applicable solo literature. Performance required for 121.

220/221. TUBA (Credit, 2 hours each). Extension of range, flexibility, triple tonguing, and applicable solo literature. Performance required for both. Pre-requisites: 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.

234. 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.

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.

102. 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, hydrodynamic 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. 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 guide-posts 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 childrearing 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, platonic 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, 1 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. PHYSICAL SCIENCE I (Credits, 4 hours) (Lec., 3 hours; Lab, 2 hours). A survey course in physical science treating the most basic principles, concepts, and developments in physics and chemistry. The course is algebra based. Specific topics include kinematics, forces, acceleration and laws of motion, work and energy, gravitation, atoms, sounds and waves, vibrations and resonance, and thermodynamics. Course not intended for students who plan to major in one of the physical sciences and cannot be substituted for a basic course in any of these fields. To earn credits in this course, a student must enroll in an accompanying laboratory class (Phys 101 Lab.) in the same semester.

101. PHYSICAL SCIENCE I LABORATORY (Credit, 0) (Lab., 2 hours). This laboratory class accompanies Phys 101 lecture course. It therefore carries out experiments directly related to concepts and principles developed in the lecture course. Specific experiments include error analysis, measurements of length and time, volume and density, graphing of data, velocity and acceleration, the simple pendulum experiment, free fall, static and rotational equilibrium, measurements of the temperature of a flame, work and energy, conductivities of solutions. Every laboratory session is to lead to a well-written, neat, and complete report. Co-requisite: Phys 101 Lecture Course.

102 PHYSICAL SCIENCE II (Credits, 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. The course is algebra based. Specific topics include electricity and magnetism, light and waves, the Earth and Moon system, the solar system, stars and galaxies, phases of matter, molecules, and chemical and nuclear reactions. This course is not intended for students who plan to major in one of the physical sciences and cannot be substituted for a basic course in any of these fields. To earn credits in this course, a student must enroll in an accompanying laboratory class (Phys 102 Lab.) in the same semester.

102. PHYSICAL SCIENCE II LABORATORY (Credit, 0) (Lab., 2 hours). This laboratory class accompanies Phys 102 lecture course. It therefore carries out experiments directly related to concepts and principles developed in the lecture course. Specific experiments include spreadsheet for data analysis, rocks and minerals, cooling rate of water, atoms and molecules, series circuits, and parallel circuits. Every laboratory session is to lead to a well-written, neat, and complete report. Co-requisite: Phys 102 Lecture Class.

141. ELEMENTS OF PHYSICS I (Credits, 4 hours) (Lec., 3 hours; Lab. and Rec., 2 hours each): An introduction to basic concepts, principles, and models in physics. This algebra based physics treats kinematics in one and two dimensions, laws of motion (translation and rotation), work and energy, static equilibrium, elasticity, fluids, vibrations and waves, temperature and kinetic theory, heat, and the laws of thermodynamics. To earn credits in this course, a student must enroll in an accompanying laboratory and recitation course (Phys 141 Lab. & Rec.) in the same semester. Prerequisite: MATH 130 or equivalent (i.e., College Algebra). No previous course in physics is necessary.

141. ELEMENTS OF PHYSICS I LABORATORY AND RECITATION (Credit, 0) (Lab., 2 hours; Rec., 2 hours). This laboratory class accompanies Phys 141 lecture course. It therefore carries out experiments directly related to concepts and principles developed in the lecture course. Specific experiments include data and error analyses, uniform acceleration, free fall, addition of vectors, Newton's second law, friction, conservation of the linear momentum, rotational equilibrium, Archimedes' principle. Every laboratory session is to lead to a well-written, neat, and complete report. Co-requisite: Phys 141 Lecture Course.

142. ELEMENTS OF PHYSICS II (Credits, 4 hours) (Lec., 3 hours; Lab. and Rec., 2 hours each): An introduction to basic concepts, principles, and models in physics. This algebra based physics deals with specific topics that include electricity and magnetism, electromagnetic wave theory, and optics. To earn credits in this course, a student must enroll in an accompanying laboratory and recitation course (Phys 142 Lab. & Rec.) in the same semester. Prerequisite: Phys 141 and MATH 130 or equivalent (i.e., College Algebra).

142. ELEMENTS OF PHYSICS II LABORATORY AND RECITATION (Credit, 0) (Lab., 2 hours; Rec., 2 hours). This laboratory class accompanies Phys 142 lecture course. It therefore carries out experiments directly related to concepts and principles developed in the lecture course. Specific experiments include electric charges and fields, electric potential, electric current, dc circuits, Ohm's law, series and parallel circuits, magnetism, electromagnetism and Faraday's law, electromagnetic waves, electromagnetic induction, geometric optics, refraction of light, lenses and mirrors (concave and convex). Every laboratory session is to lead to a well-written, neat, and complete report. Co-requisite: Phys 142 Lecture Course.

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. EARTH SCIENCE I (Credits, 4 hours) (Lec. and Lab., 5 hours). This is a survey course in Earth Science, with emphasis on a broad and up-to-date coverage of basic topics and principles in geology and climatology. Earth materials, plate tectonics, landscapes fashioned by water and ice, including glacial and arid ones, and a geological time history of Earth are among the specific topics, along with observational techniques and reasoning processes that characterize Earth System Science. This course is algebra based.

202. EARTH SCIENCE II (Credits, 4 hours) (Lec. and Lab., 5 hours). This is a survey course in Earth Science, with emphasis on a broad and up-to-date coverage of basic topics and principles in geology, oceanography, meteorology, and astronomy. Specific topics include oceans, general atmospheric dynamics, clouds, precipitations, weather patterns and severe weather scenarios, and cursory view of the place of Earth in the Universe, with observational techniques and reasoning processes that characterize Earth System Science and astronomy. This course is algebra based.

206. INTRODUCTION TO ASTRONOMY (Credits, 4 hours) (Lec. and Lab., 5 hours). This course provides a descriptive survey of modern astronomy. The course is algebra and trigonometry based. Topics include the solar system, the sun, stars and stellar systems, galaxies, life in the universe, relativity, and cosmology. The laboratory tasks in the course include actual, astronomical observations. Prerequisite: Math 140 or Equivalent

221. GENERAL PHYSICS I (Credits, 3 hours) (Lec., 3 hours). An introduction to the basic concepts, principles, and models in classical physics, intended for science and engineering majors. This calculus based course treats specific topics that include kinematics, dynamics, work and energy, static equilibrium, elasticity, fluids, vibrations and waves, temperature and kinetic theory, heat, and the laws of thermodynamics. The required, accompanying laboratory course is Phys 223. Prerequisite or co-requisite: MATH 264.

222. GENERAL PHYSICS II (Credits, 3 hours) (Lec., 3 hours). An introduction to the basic concepts, principles, and models in classical physics, intended for science and engineering majors. This calculus based course covers specific topics that include electricity and magnetism, Maxwell's equations and electromagnetic waves, electric circuits, and optics. The required, accompanying laboratory course is Phys 224. Prerequisite or co-requisite: PHYS 221, MATH 265.

223. GENERAL PHYSICS I LABORATORY (Credit, 1 hour) (Lab., 2 hours). This course

provides students with practical, hands-on experiences to enhance their understanding of the concepts taught in PHYS 221. Specific experiments carried out include units and vectors, the projectile motion,

friction, Hooke's law, harmonic motion, equilibrium of rigid body, the Bernoulli's equation for fluid flow and the heat capacity of some substances. In addition to conducting experiments, performing analyses, including error analysis, and producing well-written report are central requirements in this course. Required pre- or co-requisite: PHYS 221.

224. GENERAL PHYSICS II LABORATORY (Credits, 3 hours) (Lab., 2 hours). This course provides students with practical, hands-on experiences to enhance their understanding of the concepts studied in PHYS 222. The laboratory experiments include investigations of electric and magnetic fields, introduction to electric circuit calculations and electromagnetic phenomena (including optics). Students learn the use of devices to measure and display electric circuit parameter values. In addition to conducting experiments, performing analyses, including error analysis, and producing well-written report are central requirements in this course. Required pre- or co-requisite: PHYS 222.

262. ELECTRONICS FOR SCIENTISTS (Credits, 3 hours) (Lec. and Lab. Combined). This course introduces students to analog electronic concepts, components and devices, dc and ac circuits and time dependent signals. Ohmic and non-Ohmic devices are investigated. The course is heavily "hands-on", laboratory project oriented, with lectures to complement the laboratory exercises. In the laboratory component, students setup electronic circuits, use laboratory equipment to measure parameter values and to observe behaviors of electronic devices. Additionally, the lab provides opportunities to learn important techniques, such as soldering and reading circuit diagrams. Prerequisite: PHYS 142 or PHYS 222 or permission of the instructor.

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. Pre-requisites: 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 PHYSICS (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. Corequisite: 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 properties 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 de- partmental research can be undertaken by quali- fied 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 de- partmental 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; de- velopment of our constitutional system; and the citizen in political relations in the community.

POLS 201: POLITICS AND RELIGION IN AMERICA (Credit, 3 hours). This course focuses on the relationship between religious denominations and the political process of American government. Also, this course explores how and why political and religious actors choose to participate in interplay, in the voting booth, Congress, state legislatures, the presidency, the courts, interest groups, and the larger culture.

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 qual- ity research papers in political science. Introduces the student to basic research skills needed to ad- dress 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.

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 First Amendment, 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.

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 in- debt 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 in- form 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 diag- nosis, 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

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 in- vestigated. Students learn about perceptual organi- zation, 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, 1 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.

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.

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

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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.

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 knowl- edge 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 high- lights marketing practices and political roles in tobacco regulation as they pertain to prevention.

### **REHABILITATION SERVICES (REHB)**

220. 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 are covered. Disability awareness and etiquette are practiced in this introductory class.

222. ETHICS IN CASE DOCUMENTATION AND MANAGEMENT (Credit, 3 hours). Focuses on caseload management strategies for public and private rehabilitation. The course work facilitates development of the following skills: documentation, case report writing, time management, goal setting, intake interviewing, rapport building, receiving supervision, and writing weekly reports. The overall goals of the course are to assist students in becoming effective diagnosticians, interviewers, vocational planners, caseload coordinators, and service providers to culturally diverse consumers with disabilities

280/281. 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.

310. 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.

330. 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.

332. 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.

334. APPLICATIONS OF ASSISTIVE TECHNOLOGY IN VOCATIONAL REHABILITATION (Credit, 3 Hours). 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 and alternative communication devices for activities of daily living, wheelchairs and seating, and vehicle modifications.

362. 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. Prerequisites: REHB 220, 280, 281

364. REHABILITATION EVALUATION (Credit, 3 hours). The course provides the students with basic principles, practices, and processes of vocational evaluation applied to individuals with disabilities. Students will develop a working knowledge of appropriate instrument selection, administration, and results interpretation; and will be introduced to report writing to communicate findings in a comprehensive evaluation report. The ethical guidelines provided by the field's certification body regarding testing is discussed. Legal aspects of testing addresses employment laws, court decisions on educational testing, court decisions on employment testing, and currently relevant legislation (e.g., FERPA, IDEA, ADA, WIOA). Prerequisites: REHB 220, 280, 281

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, 1 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: REHB 220, 280/281, 362, 364

420. SPECIAL PROBLEMS and 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.

494. 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. Permission of Instructor required.

495/496. 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. Permission of Instructor required.

499. SEMINAR/CAPSTONE IN REHABILITATION. (Credit, 3 hours). Students will demonstrate

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 BATON ROUGE CAMPUS 331 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)**

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.

201. **SPECIAL TOPICS** (Credit 1-3 hours). In-depth study of selected topics in social work. The course may repeat as topics vary.

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.

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 (6 hours); POLS 200, and SOCW 200. Pre/co-requisites not required for non-social work 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. Pre/co-requisite: SOCW 200.

300. **ADDICTIVE BEHAVIORS** (Credit, 3 hours). Course designed to examine the psycho-social 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. Open to majors in related human service 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. Prerequisite: SOCW 200; Pre/co-requisite: SOCW298.

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 em- powering diverse at-risk groups. Focus is given to racial, ethnic, class, gender, age, and other relevant distinctions. Prerequisites: SOCW 270 and its pre-requisites.

375. **INTRODUCTION TO GERONTOLOGY** (Credit, 3 hours). An overview of the study of aging from an interdisciplinary perspective with emphasis upon understanding various elderly sub- groups, 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 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 set- ting 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 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, se- lecting, 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 200, 298, 393, and 394. Open to social work majors only.

396. INTRODUCTION TO FIELD INSTRUCTION (Credit, 2 hours). 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 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.

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 (200, 298, 310, 380, 381, 393, 394, 395, 396); and COMPS 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.

451. 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.

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 200, 298, 310, 380, 381, 393, 394, 395, 396. 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

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: SOCIOLOGICAL 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 societies 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) Re- search 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.

103. INTENSIVE ELEMENTARY SPANISH (credit, 6 hours). Introduction and development of elementary structures in the Spanish Language. Emphasis on listening comprehension, pronunciation, basic vocabulary and grammar structures necessary for developing oral proficiency, reading and writing skills. Students will be directed to use multi-media materials available in the computer lab. Lab work required.

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.

200. LANGUAGE AND CULTURE (credit, 3 hours). A study of the language, civilization, and culture of French and Spanish, with attention to patterns of culture of Hispanic and Francophone peoples. FOLG 200 will be taught in English with pertinent examples in the target languages; it will focus on introducing students to the various cultures of the French-speaking and Spanish-speaking worlds. WILL SATISFY THIRD-COURSE LANGUAGE REQUIREMENT. Students will build upon their knowledge of the French and Spanish

languages through discussions, readings, and

compositions. Pre-requisite: FREN/SPAN 101 or equivalent.

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.

WHO ARE DEAF OR HARD OF HEARING (Credit, 3 hours). Introduction to unit planning, lesson planning, and development

460. SECOND LANGUAGE METHODOLOGY (Credit, 3 hours). Course introduces students to the field of applied linguistics and second Lan- guage research. Students develop skills in analyzing second language data produced by learners of Eng- lish, Spanish French, German, Chinese and other foreign languages. Taught in English. Prerequisite: SPAN 201 or Permission from the Department.

460. INTRODUCTION TO TESOL (credit, 3 hours). TESOL (Credit, 3 hours). The course provides an overview of the field of TESOL (Teaching English to Speakers of Other Languages) with the particular aim of helping the student prepare to begin his or her career as a TESOL specialist. The course will be taught in English. No Pre-requisites.

482. MEXICAN AND MEXICAN-AMERICAN LITERATURE AND FOLKLORE (Credit, 3 hours). A study of Mexican and Mexican-Amer- ican 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.

100. ELEMENTARY PORTUGUESE (credit, 3 hours). Introduction to elementary structures in the Portuguese language. Emphasis on listening comprehension, pronunciation, basic vocabulary and grammar structures necessary for developing proficiency in listening, speaking, reading and writingskills.

101. ELEMENTARY PORTUGUESE (credit, 3 hours). Introduction to elementary structures in the Portuguese language. Emphasis on listening comprehension, pronunciation, basic vocabulary and grammar structures necessary for developing proficiency in listening, speaking, reading and writing skills. Pre-requisite: PORT 100 or equivalent.

## **SPECIAL EDUCATION (SPED)**

### Hearing Impairments

410. NORMAL SPEECH AND LANGUAGE DEVELOPMENT (Credit, 3 hours). Concepts, methods, and research in the nature of the acquisi- tion of speech and language.

427. METHODS OF TEACHING BASIC ELEMENTARY SUBJECTS TO STUDENTS

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 experiences 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.

**SPEECH-LANGUAGE PATHOLOGY (SPAU)**

**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.

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, 3 hours). Intensive supervised clinical practice in management, examination, diagnosis, and therapy of 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.

### **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.

### **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 FORESTRY 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.

260. **INSECTS IN THE ENVIRONMENT** (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). This course will introduce the students to the fascinating world of insects, and will cover their

significant role in relation to the environment and human activities. The topics will include basic concepts in entomology, and the importance of insects in the environment including major insect pests of crops, ornamentals and forest settings as well of insect vectors of diseases. Insect pollinators, decomposers, and natural enemies provide beneficial services and will be discussed in detail. The collection of insects, proper mounting and identification in the laboratory will provide students with hands-on experiences. 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 capability 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.

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 EVALUATION, INVENTORY, AND MENSURATION (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 and natural 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 attacks 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 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.

462. URBAN SILVICULTURE (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). The art and science of controlling the establishment, growth, composition, health, and quality of forests and woodlands in urban areas to meet the diverse needs and values of landowners and society on a sustainable basis. The course will emphasize on tending of a forest or the growing of trees in urban areas. The course is concerned with meeting human needs by manipulating urban forest using silvicultural practices modified for urban areas.

464. ARBORICULTURE (Credit, 3 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.

473. SEMINAR IN URBAN FORESTRY (Credit, 3 hours) (Lec., 2 hours; Lab, 2 hours). Current and emerging topics in urban forestry and arboriculture, including concepts, principle, research methodologies, and practices, to improve students' involvement and skills in research, literature review, scientific discussion, paper writing, and presenting research results.

477. URBAN FOREST LAW (Credit, 3 hours) (Lec., 2 hours; lab, 2 hours). General features of constitutional, statutory and administrative laws, institutions and processes which establish or limit the powers of public managers. Development of practical student competencies in legal reasoning and research on trees in urban areas.

## **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 a 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 a prerequisite for 131. Fall, spring.

200. UNDERSTANDING THE ARTS (Credit, 3 hours, Contact 6 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 and 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. ARTS210 is a prerequisite for ARTS211. ARTS 210 offered fall semester. ARTS 211 offered spring semester.

221. COMPUTER GRAPHICS (Credit hours, 3 hours; Contact, 6 hours). An introduction to various printmaking processes. Etching, intaglio, wood-cut, linoleum, collograph, and silk-screen. 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 and spring respectively.

322. PRINTMAKING (Credit, 3 hours; Contact, 6 hours). Advanced techniques in the various print-making 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

em-phasis 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

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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; Contact, 6 hours). An emphasis on materials and technique of painting on canvas to develop a personal style. 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, 6 hours). An examination of the earliest known African-American artists through the 1960s 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, 6 hours). A student 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; Contact, 6 hours). Art majors ONLY: By faculty recommendation. Independent work in presentation 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.

### 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.

## **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.

# DRAFT

## Faculty to be reviewed by Deans

### SOUTHERNUNIVERSITY

**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.

**Abdollahi, Kamran K.** (1992), Professor, *Urban Forestry and Natural Resources*, Dept. of Urban Forestry and Natural Resources; B.S., The Pennsylvania State University; M.S., Ph.D., Stephen F. Austin State University

**Abram, Paul** (1973), Head Resident, *Residential Housing*; B.S., M.Ed., Southern University.

**Addison, Doris** (2006), Instructor, *Criminal Justice*; B.S., Southern University; M.S., Loyola University, New Orleans.

**Addison, Stephone K.** (1992), Instructor, *Criminal Justice*; B.S., University of Louisiana at Lafayette; M.A., Southern University-NewOrleans, J.D.; Southern University-Baton Rouge.

**Ahmore, Okoye** (2014), Assistant Professor, *Mass Communication*; B.A., M.A, Southern University; Ph.D., University of Southern Mississippi.

**Albert, Carolyn** (1978), Assistant Professor, *Chemistry*; B.S., M.S., Southern University.

**Albert, Harry** (1977), Professor and Chair, *Behavioral Studies*; B.S., M.Ed., Southern University; Ph.D., Kansas State University.

**Al-Raoush, Riyadh** (2006), Associate Professor, *Civil and Environmental Engineering*; B.S., M.S., Jordan University of Science and Technology; Ph.D., LouisianaState University.



- 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.
- Amini, Abolfazl M.** (1994), Professor; *Department of Electrical Engineering*; B.S., Southern University and A & M College; M.S., University of New Orleans; Ph.D., Tulane University.
- Anadi, Allison** (2004), Associate Professor, *Chair and Director*, Criminal Justice; Ph.D. Eastern Michigan University.
- Anderson, Donald** (1997), Associate Professor, *Educational Theory, Policy and Practice*; B.S., M.Ed., Southern University; Ed.D., Texas A&M University
- Anderson, Harry** (2003), Assistant Professor and Director of The Alvin Batiste Jazz Institute, *Visual and Performing Arts [Music]*; B.S., M.Ed., Southern University.
- Anderson, Kissie** (2004), Instructor, *Mathematics*; B.S., M.S., Southern University.
- Anderson, Sheri** (2013), Adjunct Instructor, *Curriculum and Instruction [SPED]*; B.A., Southern University; M.A., The Ohio State University; Ph.D., Purdue University
- Andrews, Donald R.** (1994), Professor, Dean, *Department of Accounting, Finance, and Economics/College of Business*, B.S., Southern University and A & M College; M.S., University of Florida; Ph.D., Texas A & M University - College Station.
- Arasteh, Davoud** (1999), Professor, *Department of Electrical Engineering*; B.S., Iran National University; M.S., Tehran Polytechnic University; M.S., University of Louisiana; Ph.D., University of New Orleans..
- Arceneaux, Clayton** (2002), Adjunct Professor, *Behavioral Studies and Educational Leadership*; B.S., Grambling State University; M.Ed., Southern University; Ed.D., University of Missouri.
- Bator, Sharon** (2005), Assistant Professor, *Nursing*; B.S.N., University of Cincinnati; M.S.N., University of Maryland; Ph.D., Southern University and A&M College.
- Beals, Mary**, (2002), Laboratory Technician and Adjunct Instructor, *Biological Sciences*; A.S., Florida Metropolitan University; B.S., M.S., Southern University.
- Beauchamp, Edward** (2006), Adjunct Professor, *Foreign Languages*; B.A., Dillard University; M.Ed., Southern University.
- 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.
- Amini, Abolfazl M.** (1994), Professor; *Department of Electrical Engineering*; B.S., Southern University and A & M College; M.S., University of New Orleans; Ph.D., Tulane University.
- Anadi, Allison** (2004), Associate Professor, *Chair and Director*, Criminal Justice; Ph.D. Eastern Michigan University.

**Armstrong, Beatrice** (1994), Administrative Assistant, *Academic Affairs*; B.S., Southern University.

**Arp, William** (1991), Professor, *Public Policy and Urban Affairs*; 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., Meharry 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.

**Awad, Mohamed E. (????)**, Adjunct Instructor, *Biological Sciences*; B.S.C., Cairo University; M.S., Auburn University; Ph.D. Louisiana State University.

**Bagayoko, Diola** (1984), SU System Distinguished Professor, Chancellor's Fellow and Dean, *Honor's College*; B.S., Ecole Normale Supérieure de Bamako, Mali; M.S., Lehigh University; Ph.D., Louisiana State University.

**Bai, Shuja** (2001), Associate Professor, *Computer Science*; B.S., Beijing Forestry University; M.S., Southern University; M.S., Chinese Academy of Sciences; Ph.D., Purdue University.

**Banks, Maya Riley** (1995), Staff Board Office; B.A., Southern University; M.L.I.S., Louisiana State University.

**Banks, Patricia L.** (1997), LPN II, *Student Health Services*; L.P.N. Mississippi; M.S.N., Southern University.

**Batiste, Alvin** (2006), Adjunct Professor, *Criminal Justice*; B.A., Southern University; J.D., Southern University Law Center.

**Belu, Radian** (2017), Associate Professor, *Electrical Engineering*; B. S., M. S., University of Bucharest; M. S. Polytechnic University Bucharest; Ph. D. University of Western Ontario;

**Bennett, Gwendolyn** (1974), Associate Vice Chancellor for Financial Operations, *Finance and Administration*; B.S., M.P.A., Southern University; Certified Public Accountant.

**Bickham, Shaniece** (2008), Assistant Professor, *Mass Communications*; B.A., Dillard University; M.A., Loyola University; Ph.D., University of Southern Mississippi.

**Bigger, Anne** (1999), Associate Professor, *Visual Arts*; B.F.A., M.F.A., Louisiana State University.

**Blevins, Edgar R.** (1987, 1994), Professor, *Mechanical Engineering*; B.S.M.E., Southern University; M.S.M.E., Georgia Institute of Technology; Ph.D., University of Alabama at Huntsville.

**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.

**Bonvillain-Freeman, Jocelyn** (1997), Professor, *Psychology*; B.S., Southern.

**Borskey, Erma J.** (1984, 1986), Assistant Professor, *Social Work*; B.S., Southern University; M.S.W., Louisiana State University; J.D., Southern University Law Center.

**Bowersox, Kathlyn** (1997), Instructor, *JohnB. Cade Library*; B.M., Western Michigan University; M.I.L.S., University of Michigan.

**Bradford, Mary** (1977), Head Resident, *Residential Housing*; B.S., M.Ed., Southern University.

**Braima, Mahmoud A. M.** (1997), Cleo Fields Endowed Professor; *Mass Communication*; B.A., King Saud University; M.A., Murray State University; Ph.D., Southern Illinois University.

**Breaux, Peter J.** (1995, 2003), Assistant Professor, *English, World Languages and History [History]*; B.A., University of New Orleans; M.A., Southern University; Ph.D., Florida State University.

**Brooks, Johnny** (2011), Adjunct Instructor, *Mass Communication*; B.A., University of Louisiana-Monroe.

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**Brown, Dana** (2003), Adjunct Instructor, *Criminal Justice*; M.S., Grambling State University.

**Brown, Joyce N.** (2002), Assistant to the Director, *Student Financial Aid*; A.A., Meadows and Draughn Business College.

**Brown, Sandra C.** (1995), Professor, *Nursing*; B.S.N., University of Southwestern Louisiana; M.S.N., Louisiana State University Medical Center; D.N.S., Louisiana State University Medical Center.

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