



## Undergraduate Catalog 2011 – 2012

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*Make Your Mark on the World*

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*The University reserves the right to refuse admission or to revoke admission to any applicant.*

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## A MESSAGE FROM THE PRESIDENT, DR. HARRY L. WILLIAMS

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Greetings:

As you embark upon your new journey at Delaware State University, you are beginning an academic journey that will expose you to the best that this University has to offer. In choosing to fulfill your degree aspirations at DSU, you have selected an institution where opportunities are boundless. The University has a diverse array of degree programs, an exciting living-learning environment, state-of-the-art facilities and other engaging extracurricular activities.

The choice is now yours to make. You must decide the outcome of your passport to success. Make smart choices to be responsible and collegial in your endeavors. Spend your time wisely on this beautiful campus that you will call home for a few years to come. Become an engaged participant in your pursuit for academic excellence. Explore all opportunities, and fully embrace the ideologies that will prepare you for the future and its success.

This catalog is the first step in preparing your roadmap – one that will guide you during your educational journey. It encompasses useful information that will assist you from the admission process, to course selections, and on to graduation. Refer to it often and use it wisely.

Welcome to the Delaware State University family – a very smart choice!

# THE UNIVERSITY

## MISSION STATEMENT

Delaware State University is a public, comprehensive, 1890 land-grant institution. The mission of the University is to provide for the people of Delaware and others who are admitted, meaningful and relevant education that emphasizes both the liberal and professional aspects of higher education. Within this context, the University provides educational opportunities to all qualified citizens of this state and other states at a cost consistent with the economic status of the students as a whole. While recognizing its historical heritage, the University serves a diverse student population with a broad range of programs in instruction, service, and research, so that its graduates will become competent, productive, and contributing citizens.

## VISION STATEMENT

As one of America's most highly respected Historically Black Colleges and Universities, Delaware State University will be renowned for a standard of academic excellence that prepares our graduates to become the first choice of employers in a global market and invigorates the economy and the culture of Delaware and the Mid-Atlantic Region.

## CORE VALUES

- Community
- Integrity
- Diversity
- Scholarship
- Outreach

## BASIC PHILOSOPHY AND VALUES

Delaware State University is committed to excellence and seeks to be the best in all that it does. The University believes that this uncompromising pursuit of excellence is best achieved through teamwork and shared governance.

The University is committed to providing students with a complete and high quality educational experience. The University, therefore, not only seeks to provide outstanding academic programs, but also seeks to provide students with an excellent campus life experience and opportunities to participate in well-defined and well-managed extracurricular activities.

Delaware State University is an 1890 land-grant institution committed to the philosophy on which it was founded. Thus, the mission can be simply stated as involving teaching, research and outreach.

The University is committed to providing all undergraduate students with a strong liberal arts education. This essential part of students' education serves as the foundation for studies in the major areas.

Delaware State University considers the changing needs of students as a major institutional priority. The University believes that: 1.) students must receive the education required for employment and upward mobility; 2.) more minority students must be prepared for graduate and professional education, especially

in areas in which they are traditionally under-represented.; and 3.) students should be exposed to new developments in currently existing curricula using diverse teaching strategies. Delaware State University places major emphasis on teaching quality. At the same time, the University recognizes that all faculty are obligated to expand the frontiers of knowledge in various disciplines and fields and, as appropriate, to apply that knowledge to the solution of community, regional, national and international problems. The University also believes that faculty involvement in research substantially enhances the quality of teaching and expects that students will be provided opportunities to engage in research. Through research, faculty members can continually expand their professional knowledge base and maintain the vitality of their teaching.

In addition to the primary emphasis on high quality teaching and the related missions areas of research and outreach, the University is committed to serving the surrounding the communities, the State of Delaware and the nation.

## **STUDENT LEARNING GOALS**

Delaware State University provides a wide-range of experiences designed to prepare our graduates to be

1. competent communicators;
2. effective inquirers, critical thinkers, and problem-solvers able to use appropriate quantitative and qualitative information;
3. ethical, collaborative, and productive citizens of a complex, diverse world;
4. independent learners able to integrate knowledge and technology to achieve personal and professional success.

Program learning goals are aligned with these learning goals. Course learning goals are aligned with the program learning goals.

## **HISTORY**

The State College for Colored Students, now known as Delaware State University, was established May 15, 1891 by the Delaware General Assembly under the provisions of the Morrill Act of 1890 by which land-grant colleges for blacks came into existence in states maintaining separate educational facilities. Through the conservative and practical planning of the Board of Trustees appointed by Governor Robert A. Reynolds, the College was launched upon its mission of education and public service on February 2, 1892. Five courses of study leading to a baccalaureate degree were offered: Agricultural, Chemical, Classical, Engineering, and Scientific. A Preparatory Department was established in 1893 for students who were not qualified to pursue a major course of study upon entrance. A three-year normal course leading to a teacher's certificate was initiated in 1897. The College graduated its first class of degree candidates in May 1898.

In the 1916 to 1917 school year, the Preparatory Department was phased out, a Model Grade School was established, and a high school diploma was granted on completion of a four-year course of study. In 1923, a Junior College Division was added. Four-year curricula in the Arts and Sciences, Elementary Education, Home Economics, Agriculture, and Industrial Arts were established in 1932. The College graduated the first class of bachelor's degree candidates completing one of the courses of study in June 1934.

In 1945, the College received provisional accreditation by the Middle States Association of Colleges and Schools. In 1947, the name of the institution was changed to “Delaware State College” by legislative action.

On July 1, 1993, Delaware State College turned another chapter in its history, when then Gov. Thomas Carper signed a name change into law, renaming the College to Delaware State University. The University’s accreditation was most recently reaffirmed by the Middle States Commission on Higher Education in 2007.

The University has grown in stature as a center for teaching, research, and public service. The purpose and objectives of the University have broadened in keeping up with changing times. While recognizing its historical heritage, the University provides higher education today for a diverse student population. Academic units are organized into the College of Agriculture & Related Sciences; the College of Arts, Humanities & Social Sciences; the College of Business; the College of Education, Health & Public Policy; and the College of Mathematics, Natural Sciences & Technology.

The University offers 52 undergraduate degrees, which include unique majors such as Aviation, Computer and Information Sciences; Criminal Justice, Agriculture; Health Promotions; Hospitality & Tourism Management; Human Ecology; Management, Mass Communications; Natural Resources; Nursing; Social Work, Sport Management, along with many other tradition University-level degree programs.

The University offers 25 master’s degrees in Agriculture (Animal Science, Food Science, Plant Science), Applied Optics, Art Education, Biology (M.S. or M.A.), Biology Education, Business Administration (Finance, Information Systems, or Project Management), Applied Chemistry, Computer Science, Education (Adult Literacy and Basic Education, Curriculum and Instruction, Science Education, or Special Education), Educational Leadership, Family and Consumer Science Education, Food Science, Historic Preservation, Mathematics (Pure or Applied), Mathematics Education, Molecular and Cellular Neuroscience; Natural Resources, Nursing; Physics, Physics Teaching, Social Work, Sport Administration, Teaching, as well as Teaching English as a second Language.

The University also has five doctoral programs in Applied Chemistry; Educational Administration, Leadership & Supervision; Interdisciplinary Applied Mathematics and Mathematical Physics; Neuroscience; as well as Optics.

The institution has national academic program accreditations from the Accrediting Council for Programs in Hospitality Administration; the Commission on Accreditation for Dietetic Education; the National Council for Accreditation of Teacher Education; National League of Nursing Accrediting Commission; the Commission on Collegiate Nursing Education; and the Council on Social Work Education. The University’s College of Business is also internationally accredited by the Association to Advance Collegiate Schools of Business.

The underpinning of the growth and development of Delaware State University has been the leadership of 10 permanent presidents, which included Wesley P. Webb (1891-1895), William C. Jason (1895-1923), Richard S. Grossley (1923-1942), Howard D. Gregg (1942-1949), Oscar J. Chapman (1950-1951), Jerome H. Holland (1953-1960), Luna I. Mishoe (1960-1987), William B. DeLauder (1987-2003), Allen L. Sessoms (2003-2008) and Dr. Harry L. Williams (2010-present). Maurice E. Thomasson served twice as acting president from 1949-50 and 1951-1952; and Dr. Claibourne Smith served as the acting president from 2008-2010.

As of 2011 the *U.S. News & World Report* ranked Delaware State University as 15<sup>th</sup> among the 105 HBCUs in the country. As a result of the efforts of past and current presidents, administrators, faculty, staff and students, the University is well-positioned to reach new levels of prestige and respect in the new millennium.





Accredited by Middle States Commission on Higher Education  
3624 Market Street  
Philadelphia, PA 19104-2680  
267-284-5000

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## THE SETTING

### The Campus and Facilities

Delaware State University is located in Dover, Delaware, in Kent County, 45 miles south of Wilmington on the Delmarva Peninsula. The campus is adjacent to U. S. Highway 13 which provides direct access to Norfolk, Virginia; Salisbury, Maryland; Wilmington, Delaware; Philadelphia, Pennsylvania; and Camden, New Jersey. Other connecting highways in the Dover area provide access to the Chesapeake Bay Bridge; Washington, D. C.; Baltimore, Maryland; and points west. The New York Metropolitan Area can be reached via the Delaware Memorial Bridge and the New Jersey Turnpike, which intersect Highway 13 just south of Wilmington. The city of Dover is located on bus routes to major cities.

Dover, the capital of Delaware, is a community of approximately 36,000 people situated in the heart of the Eastern Shore within easy reach of the resort areas of Rehoboth Beach, Delaware; Ocean City, Maryland; and Cape May, New Jersey. Founded in 1703, the city of Dover features many colonial buildings and several historical sites, including the home of John Dickinson, signer of the Declaration of Independence and the Constitution of the United States.

The physical facilities at the Dover campus support various University programs. Major administrative and academic facilities are listed below.

**Administration Building** accommodates a small Café, the Office of Admissions, the Office of Student Financial Services, the Office of Student Accounts, the Records Office, the Cashier's Office, the Human Resources Office, the Office of Institutional Research & Analysis, the Office of Finance and Administration, the Payroll Office, the Institutional Advancement Office, Student ID/Photo Office, the Academic Affairs & Provost's Office, and the President's Office.

**Agriculture Annex Building** is the home of the College of Agriculture and Related Sciences, and the Department of Human Ecology as well as certain offices and laboratories of the Department of Agricultural and Natural Resources.

**Alumni Stadium** serves as the site for many university activities, including football, track and field contests and other outdoor events.

**William W.W. Baker Building** is the home of the Department of Agriculture and Natural Resources.

**Bank of American Building** is the home of the College of Business, which includes the departments of Accounting, Economics & Finance and Management, as well as the Aviation Program and the Hospitality

& Tourism Management Program, the Delaware Center for Enterprise Development and the SunGard IT Help Desk.

**Delaware Hall** houses the departments of Psychology and Sociology-Criminal Justice.

**Education and Humanities Building** houses the departments of Art, English & Foreign Languages, Education and Music. This facility also houses the Child Development Laboratory and the Office of the Dean of the College of Arts, Humanities & Social Sciences, the Office of Distance Education & Learning Technologies, Counseling Services, as well as serving as the site for the University's wide-ranging cultural enrichment programs in the E&H Theatre.

**ETV Building** houses the departments of History, Political Science & Philosophy; Mathematical Sciences and Mass Communications.

**Grossley Hall** houses several classrooms, certain offices of the Athletics Department, the Office of International Affairs, the Office of University Studies & First-Year Programs and SunGard offices.

**William C. Jason Library**, a six-story structure houses a collection of more than 415,622 printed volumes, and including its collection of micro books, microfiche, audio-visual volumes, and bound periodicals, the library has a total holding of more than 475,000. The library is also home to the University's Student Support Services, as well as Arts Center/Gallery, which traditionally features the works of critically acclaimed artists from the United States and abroad as well as art student and faculty exhibitions.

**Loockerman Hall**, built circa 1720, is often referred to as ~~the~~ "the birthplace of Delaware State University." It is the only building from the institution's inaugural 1891 year that still exists. Though it has undergone a massive renovation, its architectural integrity has been preserved. It is listed on the National Register of Historic Places.

**Martin Luther King, Jr. Student Center**, a three-story structure completed in 2010, is the home for the Student Government Association, *The DSU Hornet* (student newspaper), the Office of Career Services, the Copy Center which serves the printing needs of the University, and the University Bookstore. Extramural activities for students are also held in the facility. The offices for the Vice President of Student Affairs, Career Services, Student Leadership and Activities and Judicial Affairs

**Memorial Hall Complex** houses the Departments of Sport Management, Physical Education Program, Office of Sports Medicine, Varsity Strength & Conditioning Center, as well as the intercollegiate sport gymnasium.

**Luna I. Mishoe Science Center** houses offices, classrooms, and facilities for the departments of Biological Sciences, Chemistry, Computer & Information Sciences and Physics.

**John R. Price Building** houses the Office of the Dean of the College of Education, Health and Public Policy. The departments of Public & Allied Health Sciences, Nursing and Social Work are also located in this facility.

**Maurice Thomasson Center** houses the Division of Adult and Continuing Education, Office of Alumni Affairs, Assessment Office, Office of Testing and Office of Title III.

**Ulysses S. Washington Cooperative Extension Center** houses the University's Cooperative Extension outreach programs that include youth development, family life education, community resource development and agriculture education. The Center is also the home of the Herbarium, which houses the most extensive collection of plants that is indigenous to the Delmarva Peninsula.

**Wellness & Recreation Center** is a 54,000 square foot structure completed in 2009 that includes dual basketball courts with seating areas and men and women's locker room on the first floor. The second floor has a variety of Life Fitness weight machines and free weights as well as a running track that winds around the exercise areas and overlooks the basketball courts on the floor below. The facility also has a swimming pool and sections for aerobic and other fitness classes.

**William C. Jason Library** also houses the Office of Advising and Mentoring.

**DELAWARE STATE UNIVERSITY  
ACADEMIC CALENDAR  
FALL 2011 SEMESTER (201201)**

August 22 (Monday)	Removal for Non-Payment
August 24 (Wednesday)	Residence Halls Open for New Students Only
August 24-28(Wednesday-Sunday)	Welcome Days
August 25 (Thursday)	Faculty & Staff Institute
August 26 (Friday)	Last Day to Mail-In or Fax Registration
August 26-27 (Friday-Saturday)	Residence Halls Open for Returning Students
August 29 (Monday)	Classes Begin @ 8:00 am
August 29 (Monday)	Late Registration Begins
September 5 (Monday)	Labor Day Recess (University Closed)
September 6 (Tuesday)	Last Day for Adding Classes
September 6 (Tuesday)	Documentation for Non-Attendance
September 6 (Tuesday)	Last Day to Change Course(s) to Audit Status
September 6 (Tuesday)	Late Registration Ends
September 7 (Wednesday)	Effective date for \$10 per drop processing fee
September 7 (Wednesday)	Effective date for receiving a grade of "W" for dropped courses
September 8 (Thursday)	General Faculty Meeting
September 15 (Thursday)	Opening Convocation
October 3-6 (Monday-Thursday)	Midterm Evaluations Administered
October 6 (Thursday)	Last Day to Remove Incompletes
October 8 (Saturday)	Parent's & Family Day
October 11 (Tuesday)	Mid-Term Grades Due in Chairs' Offices
October 14 (Friday)	Deadline for Applications & Audits for Graduation for Undergraduates
October 15 (Saturday)	Fall Open House
October 17-21 (Monday-Friday)	**Priority Academic Advisement Period
October 23-30 (Sunday-Sunday)	Homecoming Week
October 24-(Monday)	**Priority Pre-Registration
October 25-November 23 (Tuesday-Wednesday)	Academic Advisement Period
October 29 (Saturday)	Homecoming Game
November 2 (Wednesday)	Last Day to Drop Classes
November 24-27 (Thursday-Sunday)	Thanksgiving Recess
November 24 (Wednesday)	Residence Halls Close at 8pm
December 1 (Thursday)	Last Day to Withdraw from the University
December 8 (Thursday)	Last Day of Classes
December 9 (Friday)	Reading Day
December 12-16 (Monday-Friday)	Final Examinations
December 16 (Friday)	Winter Recess Begins (Students)
December 16 (Friday)	Residence Halls Close at 8pm
December 16 (Friday)	Spring 2012 New Student Orientation
December 19 (Monday)	Final Grades Due in Chairs' Offices
December 19 (Monday)	Final Grades Due in Registrar's Office
December 23 (Friday)	Winter Recess Begins (University Closed)

***\*\*Athletes, Honor Students and seniors are entitled to priority registration. These groups should be advised a week prior to the Academic Advisement period.***

**DELAWARE STATE UNIVERSITY  
ACADEMIC CALENDAR  
SPRING SEMESTER 2012 (201203)**

January 4 (Wednesday).....	General Faculty Meeting
January 5 (Wednesday).....	Residence Halls Open for New Students Only
January 6 (Friday).....	Welcome Day
January 5-6(Thursday-Friday).....	Registration for New and Readmitted Students
January 6 (Friday).....	Removal Date for Non-Payment
January 6 (Friday) .....	Last Day to Mail-In or Fax Registration
January 9 (Monday) .....	Advising/Registration for Remaining Students
*January 8 (Sunday).....	Residence Halls Open for Returning Students at Noon
January 9 (Monday) .....	Classes Begin at 8:00 am
January 10 (Tuesday).....	Late Registration Begins
January 16 (Monday) .....	Martin Luther King Day Observance (University Closed)
January 17 (Tuesday).....	Last Day for Reinstatement
January 17 (Tuesday).....	Last Day for Adding Classes
January 17 (Tuesday).....	Documentation for Non-Attendance Due
January 17(Tuesday).....	Late Registration Ends
January 17(Tuesday).....	Last Day to Change Courses to Audit Status
January 18 (Wednesday).....	Effective date for \$10 per drop processing fee
January 18 (Wednesday).....	Effective date for receiving a grade of "W" for dropped course
*February 9 (Thursday).....	Founders Day
February 13-16 (Monday-Thursday).....	Mid-Term Evaluations Administered
February 20 (Monday).....	Mid-Term Grades Due in Chairs' Offices
February 23 (Thursday).....	Last Day to Remove Incompletes
March 1-30 (Thursday-Friday).....	Spring Faculty Evaluations
March 5-9 (Monday-Friday) .....	Spring Break
March 5-10 (Monday-Saturday).....	MEAC
March 15 (Thursday).....	Priority Deadline Date for Filing FASFA
March 26-30 (Monday-Friday) .....	**Priority Academic Advisement Period
March 28 (Wednesday) .....	Last Day to Drop Classes
April 2 (Monday).....	**Priority Pre-Registration
April 3-13 (Tuesday-Friday) .....	Pre-Registration (for Summer 12, Fall 12)
April 5 (Thursday).....	Honors Day
April 6-9 (Friday-Monday) .....	Easter Recess
April 12 (Thursday) .....	Last Day to Withdraw from the University
April 14 ((Saturday).....	Open House
April 15 (Sunday).....	Exit Interview for May Graduates Due
April 26 (Thursday).....	Last Day of Classes
April 27 (Friday) .....	Reading Day
April 30-May 4 (Monday-Friday) .....	Final Examinations
May 4 (Friday) .....	Residence Halls closes @ 8pm
May 7 (Monday) .....	Final Grades Due in Chairs' Offices
May 7 (Monday) .....	Final Grades Due in Records Office
May 19-20 (Saturday -Sunday).....	Commencement

**\*\*Athletes, Honor Students and seniors are entitled to priority registration. These groups should be advised a week prior to the Academic Advisement period.**

## **TENTATIVE SUMMER 2012 CALENDAR**

### **SESSION I (201213)**

<b>Pre-Registration</b>	<b>April 2 (Monday) – April 12 (Thursday)</b>
<b>Removal for Non-Payment</b>	<b>May 14 (Monday)</b>
<b>Last Day to Mail-in or Fax Registration</b>	<b>May 14 (Monday)</b>
<b>Students Check-in Residence Halls</b>	<b>May 14 (Monday)</b>
First Day of Classes (Session I)	May 15 (Tuesday)
Last Day to Add Classes	May 18 (Friday)
<b>Documentation of Non- Attendance</b>	<b>May 18 (Friday)</b>
<b>Holiday (University Closed)</b>	<b>May 28 (Monday; Memorial Day)</b>
Last Day to Drop Classes	May 29 (Tuesday)
Last Day of Classes	June 21 (Thursday)
<b>Residence Halls close @ noon</b>	<b>June 22 (Friday)</b>
Grades Due in Registrar's Office	June 26 (Tuesday)

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## **TENTATIVE SUMMER 2012 CALENDAR**

### **SESSION II (201214)**

<b>Pre-Registration</b>	<b>April 2 (Monday) – April 12 (Thursday)</b>
<b>Removal for Non-Payment</b>	<b>June 29 (Friday)</b>
<b>Last Day to Mail-in or Fax Registration</b>	<b>June 29 (Friday)</b>
<b>*Students Check-in Residence Halls</b>	<b>July 1 (Sunday)</b>
First Day of Classes (Session II)	July 2 (Monday)
<b>Holiday (University Closed)</b>	<b>July 4 (Wednesday)</b>
Last Day to Add Classes	July 6 (Friday)
<b>Documentation of Non-attendance</b>	<b>July 6 (Friday)</b>
Last Day to Drop Classes	July 17 (Tuesday)
Last Day of Classes	August 9 (Thursday)
<b>Residence Halls close @ noon</b>	<b>August 10 (Friday)</b>
Grades Due in Registrar's Office	August 14 (Tuesday)

## ADMISSION TO THE UNIVERSITY

### Admission Philosophy

Delaware State University provides admission to qualified Delaware residents, out-of-state residents and international students based on criteria established by the Middle States Association of Colleges and Secondary Schools and the policies of the University. In accordance with our mission, Delaware State University is obligated to identify the level of preparedness of the students it admits, and to establish appropriate policies that ensure accurate placement of students in courses and academic programs that provide the greatest opportunity for success in their academic pursuits.

Admission to Delaware State University is granted to all applicants whose academic and individual qualifications demonstrate proficiency for success at the University. All applicants, regardless of race, creed, national origin or handicap, are given equal consideration for admission. The University reserves the right to close admission when no further space remains.

Students who wish to gain admission to the University should apply as soon as possible to ensure that space is available. It is advisable for high school students to apply for admission to the University at the conclusion of their eleventh (11<sup>th</sup>) grade year when final grades have posted and course selection for the senior year is reflected.

All degree seeking students must apply formally through the Office of Admissions. An official notice of eligibility for admission will be sent to each applicant after credentials have been evaluated. If accepted, students must follow the official University orientation and registration procedures applicable to academic status.

Admission may be granted to applicants who have a certificate or diploma from an accredited four-year school or senior high school. It is recommended that students seeking admission to the University follow a college preparatory curriculum in high school. Applicants must give evidence of having maintained a satisfactory high school record with the completion of a minimum of nineteen (19) units of specific high school coursework. A satisfactory record normally includes a minimum high school grade point average of a 2.0 and no less than a “C” in academic work. The University’s minimum grade point average (GPA) requirement for entry is a 2.0 or better on a 4.0 scale. Admission is not granted solely on the basis of grades and test scores, though they are heavily considered. The University takes a very holistic approach in evaluating applications for admission. Community service, demonstrated leadership, and special talent are also considered when evaluating applications for admission.

The following nineteen (19) minimum course units are required:

<b>English</b>	Writing, Literature, and Oral Communication	4 Units
<b>Mathematics</b>	Courses must include Algebra I & II and Geometry or the equivalent (Recommend a fourth higher math course)	3 Units
<b>History</b>	One world history and one other history	2 Units
<b>Social Studies</b>	Civics, American Government, Economics, Geography or Psychology (Two units recommended)	1 Unit
<b>Science</b>	Courses with a laboratory. Must include one or more of the following: Biology, Chemistry, and/or Physics	3 Units
<b>Foreign Language</b>	Recommended within the same language. If within the same language, there must be course progression.	2 Units
<b>Electives</b>	May include any additional class from subject areas listed above or Art, Theatre/Drama, Music, and/or Computer Science	4 Units
<b>Total</b>		<b>19 Units</b>

The tests to be used for admission purposes are the Scholastic Assessment Test (SAT) or the American College Test (ACT). Tests taken in December or January of the senior year of secondary school are preferred. Results of tests completed during the junior year will be accepted. Delaware State University requires a minimum SAT score of 800 or better (critical reading and math sections combined), or an ACT composite score of seventeen (17) or better.

### **Non-Graduates of High School**

The University will consider applicants for admission who have satisfied high school graduation requirements under the General Education Development (GED) test. Applicants must submit a notarized GED certificate with their application and fee to be considered for admission.

### **Project Success Program**

Should an applicant's GPA and/or test scores fall below the University's admission standards, an offer of acceptance may be extended contingent upon the applicant's enrollment in and successful completion of the Project Success Program for provisionally admitted students. Students are extended this offer at the discretion of the Office of Admissions. Seats in the program are limited.

### **Program Jumpstart**

Program Jumpstart is a six-week residential summer and cultural enrichment program that provides a transitional opportunity for first-time-freshmen who will enter the University during the fall semester. Students with a high school GPA of 2.5 or better are invited to participate in the program.

### **New Student Orientation**

It is mandatory for all new students to participate in New Student Orientation to enroll at the University. Specifically, in the summer preceding their first fall semester at the University, new freshmen and transfer students must complete the orientation process which includes registering for classes. New students may complete and return the form enclosed in their acceptance packet or they may download the orientation form from the University's website. You must be accepted to the University to participate in orientation. A fee of \$150.00 is required for all new freshmen and a fee of \$100 is required for all new transfer students. Students will not be allowed to participate in New Student Orientation if they have not paid the fee.

### **Basic Application Procedures for Undergraduate Admission**

All persons pursuing a degree must submit the following:

- A completed application
  - An application for undergraduate admission can be acquired at the University's Office of Admissions on the main campus in Dover, Delaware; at either of the extended campuses in Wilmington and Georgetown, Delaware; or the guidance offices of any Delaware high school. Students can also apply online at the University website: [www.desu.edu](http://www.desu.edu).
- An official high school transcript;
- An official college transcript if college work has been attempted;
- SAT or ACT test scores; and
- Application fee of \$25.00.

<p><b>NOTE: All of the above items must be submitted to the Office of Admissions before an application can be evaluated for admission into the University. Applicants will be notified if documents are missing, thus hindering the evaluation process.</b></p>
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## **Application Procedures and Policies for Undergraduate Transfer Admission**

Applicants who have previously attended other institutions of higher education will be considered for admission at the University. Transfer students must submit the following:

- A completed application;
  - An application for undergraduate admission can be completed online at the University website: [www.desu.edu](http://www.desu.edu).
- An official high school transcript;
- Official transcript(s) from all institutions of higher education attended;
- SAT or ACT test scores if not transferring twelve (12) credit hours with a grade of at least “C” in each course in the twelve credit hours; and
- Application fee of \$25.00.

Transfer students should understand the following:

- The Admissions Office will consider applications from students seeking to transfer from two-year colleges, four-year colleges, and universities accredited by their respective regional association.
- College courses that have been completed more than ten years ago will not be accepted automatically for transfer credit. Acceptance of such courses for transfer credit will be at the discretion of the department in which the equivalent course is offered.  
**The transcript(s) of each accepted transfer student will be evaluated by the chairs of departments offering the specific subjects of courses transferred. Courses to be transferred must be equivalent to the respective courses at Delaware State University or they will be given elective credit in the subject or generic elective credit.** Then they will be evaluated to determine if or how they might meet the requirements of the DSU General Education Program or of the major program or minor program.
- Credit will not be granted for correspondence courses.
- Courses with grades less than “C” will not be accepted as transfer credit. Course grades of C- will not transfer.
- Students who are on academic probation at other institutions will not be considered for admission at Delaware State University.
- Students who have been academically dismissed, suspended, or placed on probation for disciplinary reasons at other institutions are not permitted to enroll for a degree at Delaware State University.

## **Application Procedures for Undergraduate International Admissions**

International students are encouraged to begin the admissions process no later than sixty (60) days prior to the start of classes for the semester for which they are applying. Please understand that failure to comply with the following policies could interfere with the timely processing of a student's application.

The Test of English as a Foreign Language (TOEFL) is required. However, if English is the official language of your country of origin, SAT and/or ACT test scores are acceptable. Delaware State University requires an average SAT score of 1,200 or better (given all three parts), or an ACT composite score of seventeen (17) or better. The TOEFL score determines the student's initial level of English proficiency. Students must submit a satisfactory score of a minimum of 550 on the paper-based test, or an equivalent score of 79-80 on the new internet based TOEFL, or a 5.5 minimum IELTS score or documentation (i.e., a transcript, certificate of completion of a program, etc.) of satisfactory completion of an intensive curriculum of English instruction. The University will also consider international applicants who have taken the General Education Development (GED) test. Applicants must submit a notarized copy of their GED certificate with their application and fee to be considered for admission.

If educated outside of the continental United States (U.S.) at a non-English speaking institution, transcripts must be evaluated by the World Education Service (WES) ([www.wes.org](http://www.wes.org)), the Educational Credential Evaluators (ECE) ([www.ece.org](http://www.ece.org)), or the American Association of Collegiate Registrars and Admissions Officers (AACRAO) ([www.aacrao.org](http://www.aacrao.org)), and forwarded from the evaluating organization to the Office of Admissions. All academic records must be converted into their U.S. education equivalents by a University recognized credential agency, to obtain transfer credit for education completed at non-U.S. postsecondary institutions. Transcript evaluations must be submitted sealed from the evaluating organization. **PLEASE NOTE:** The Office of Admissions reserves the right to request that transcripts from international English speaking institutions be evaluated by WES or any of the other recognized credential agencies if educational equivalency cannot clearly be determined by the Office of Admissions.

International applicants must also submit an affidavit of Annual Cash Support with the following attachments:

- Proof of sponsor's employment on employer's business stationery;
- Official bank statements in U.S. Dollars no less than two months old; a letter from the bank on letterhead stationery which states the date the account was opened and current balance in U.S. Dollars; or an award letter from the University stating the length of time and amount of the award.
  - International students must not only submit financial documents that show funds exist to pay the total amount of at least the student's first year of study, but students' accounts must be paid in full for the first year of study. Moreover, except for unanticipated conditions, students must also indicate how they will be supported for the remaining years of his/her program of study.
- If residing with a friend or relative, the student must submit an Affidavit of Free Room & Board with the following attachments:
  - Copy of the deed, lease, or rent receipts, and
  - Proof of sponsor's employment on employer's business stationery.

Affidavits along with their attachments should be submitted to: DSU, 1200 N, DuPont Highway, Office of International Affairs, Dover, Delaware 19901

### **In-State Permanent Resident**

A student with an Alien Registration Receipt Card (~~—Green Card~~) has been given permanent residence in the United States as an immigrant, refugee, or alien and, therefore, may enroll at any University location for full- or part-time study. Tuition costs are determined by location of residency. Verification of permanent residence status is required at the time of application. Any student without appropriate identification as a permanent resident of Delaware is required to pay out-of-state tuition and fees.

To apply as a student with permanent residency status, please be prepared to submit the following:

- An application for admission signed by the student;
- SAT or ACT scores;
- Sealed original transcripts from secondary and post secondary schools attended; and
- A notarized copy of permanent resident status; temporary evidence, or actual Alien Registration Receipt Card (Green Card).

To apply as a student with residency status in the State of Delaware, please be prepared to submit the following documents to be used as verification:

- A notarized copy of your Alien Registration Receipt Card (~~—Green Card~~);
- If dependent, proof that your parents or guardian has maintained a continuous residence in the State of Delaware for a period of twelve (12) full consecutive months (verified by a deed or lease and/or Delaware Tax Return Forms) immediately prior to the first day of classes for the semester or session for which Delaware residency status is claimed;
- If independent, proof that you have maintained continuous residence in the State of Delaware for a period of twelve (12) full consecutive months (verified by deed or lease) immediately prior to the first day of classes for the semester or session for which Delaware resident status is claimed;
- Independent out-of-state resident who has worked in the State of Delaware for at least twelve (12) consecutive months (excluding work study) may qualify for in-state residence classification (verified by Delaware Tax Return Forms).
  - **PLEASE NOTE:** The tax return should show proof that you (or whoever claimed you as a dependent) paid taxes to the State of Delaware for one full year.

### **International Students with a Student Visa**

Students who apply to come to the U.S. for the purpose of enrolling at Delaware State University may be issued a Form I-20 A-B Certificate of Eligibility for Nonimmigrant (F-1) Student by the University after submitting the following documents:

- An application for admission signed by the student;
- Sealed official transcripts from secondary and postsecondary schools attended;
- Sealed official Test of English as a Foreign Language (TOEFL) score no more than two (2) years old; and
- If necessary, an interview, attended by the student's local sponsor (if applicable), with the Admissions Coordinator for Transfer and International Students.

### **Application for Student Visa**

The University issues an I-20 A-B Certificate of Eligibility form to students who qualify for admission. Students present this form with other documentation to a U.S. Consulate Office in the country where they are applying for a student (F-1) Visa. Final decision on admission into the U.S. and permitted length of stay is made by the U.S. Bureau of Citizenship and Immigration Services (BCIS).

### **F-1 Transfer Students**

Students with an F-1 Visa seeking to transfer to Delaware State University from another U.S. institution must submit the following documents and meet the following criteria:

- A copy of the I-20 from the previous institution;
- An International Student Transfer Form from the institution previously attended indicating that the student is in good standing and is ~~in~~ "in-status" as an international student;
- An application for admission signed by the student;
- Sealed official transcripts from secondary and postsecondary schools attended;
- Sealed official Test of English as a Foreign Language (TOEFL) score no more than two (2) years old; and
- If necessary, an interview, attended by the student's local sponsor (if applicable), with the Admissions Coordinator for Transfer and International Students. However, if English is the official language of your country of origin, SAT and/or ACT test scores are acceptable. Delaware State University requires an average SAT score of 1,200 or better (given all three parts), or an ACT composite score of seventeen (17) or better. The TOEFL score determines the student's initial level of English proficiency. Students must submit a satisfactory score of a minimum of 550 on the paper-based test, 213 on the computer based test, or an 84 on the new international based TOEFL, or documentation

(i.e., a transcript, certificate of completion of a program, etc.) of satisfactory completion of an intensive curriculum of English instruction. The University will also consider international applicants who have taken the General Education Development (GED) test. Applicants must submit a notarized copy of their GED certificate with their application and fee to be considered for admission.

### **Students with Other Types of Visas**

Prospective students with a temporary Visa status such as J or B (i.e., visitors, business, exchange, etc.) should contact the Office of International Affairs to have their applications approved before registering for classes. Nonimmigrant students, other than F-1 international student Visa holders, may take as many credit courses as their admission status permits, as long as the term begins and ends within the duration of stay indicated on the I-94 in their passport. These students are subject to the out-of-state tuition rates. Refunds will not be issued after the term's scheduled drop dates.

### **Additional Overall Information**

- Students with F-1 Visas must enroll for a full-time course of study—a minimum of twelve (12) credits hours each term.
- Priority application deadlines:
  - April 1 for Fall (August) enrollment
  - November 1 for Spring (January) enrollment
- Information obtained in this process is strictly confidential and will not be disclosed unless required by law.

### **Online Application**

Prospective students are encouraged to apply online by visiting the University's web site: [www.desu.edu](http://www.desu.edu). The application fee can also be submitted online. However, all supporting documentation—official transcripts (high school and any other institutions of higher education) and test scores (SAT, ACT, or TOEFL for international students) must be forwarded to the Office of Admissions.

### **Campus Visits**

The Office of Admissions does conduct campus tours. Please call the Office of Admissions Tour Line at (302) 857-6347 or visit online at [www.desu.edu/tour](http://www.desu.edu/tour) to schedule. Campus tours are conducted Monday through Friday except for University holidays. Groups are asked to schedule tours at least two weeks in advance. Prospective students are invited to attend Delaware State University's Open Houses during the fall and spring semesters. These special days provide parents and students with the opportunity to get a closer look at the University, and learn more about the application process, financial aid, scholarships, and co-curricular opportunities. Prospective students and their parents also have the opportunity to meet with deans and faculty members. Visit the University website, [www.desu.edu](http://www.desu.edu), for dates.

### **Applicant Classification Definitions**

**Delaware Resident** - a student who is a resident of the State of Delaware or whose parent(s) are residents of the State of Delaware is considered a resident of the state. If a Delaware resident graduated from an out-of-state high school, proof of residency must be submitted in order to avoid out-of-state tuition. Original (or notarized copies) of two (2) of the following items can be submitted to show proof of residency:

- A completed Delaware Tax Return from the previous year;
- A lease or mortgage agreement.

Applicants should indicate residency on their application for admission to the University. Applicants who are minors are considered to be resident applicants if their parent(s) or legal guardian(s) have been residents of Delaware for at least one year. Adult applicants (at least 24 years of age) are considered to be

residents of Delaware if they have been residents of the State for at least one year prior to the date of their initial quest for admission to the University.

A student, who may have been admitted into the University at non-residency or out-of-state status, may apply for a change in residency status after being enrolled at the University for twelve (12) consecutive months. A student seeking a change in residency status should complete a Request for Change of Residence Form and submit an original or notarized copy of two (2) of the following supporting documents to the Office of the Registrar:

- A completed U.S. Tax Return from the previous year;
- A lease or mortgage agreement; and
- A Delaware State University's student I.D.

**Note: The aforementioned does not apply to international students.**

***Non-Resident*** - a student who is not a resident, or whose parent(s) are not residents, of the State of Delaware.

***International*** - a student who is not a citizen or immigrant (permanent resident) of the United States of America. International students who are not U.S. citizens or immigrants should have a completed admission application on file three (3) months prior to the beginning of the term in which they intend to enroll.

### **Early Bird Program**

The Early Bird Program is for juniors and seniors attending high school in the State of Delaware who wish to earn college credit hours while still attending high school. In order to qualify for the program, students must be recommended by their high school principal. Interested students should contact their high school counselor for instructions, obtain a letter of recommendation from their principal, and have written approval from their parents. A cumulative grade point average of 2.5 or better is also required. Early Bird applicants may enroll for no more than six (6) credit hours per semester. Note that science courses have an accompanying one hour laboratory course required. Students whose high school grade point averages are 3.0 or better on a 4.0 scale are entitled to six (6) hours of free tuition per semester. All students will still be responsible for fees—technology, parking, etc. Students cannot enroll in the early bird program if they have graduated from high school, or will graduate within the term. All applications should be directed to the Office of Admissions.

### **Part-Time Students**

Part-time students enroll as degree seeking students but, take less than twelve (12) credit hours per semester.

### **Reinstatement of Former Students**

Students wishing to return to the University after a voluntary or involuntary absence of three (3) or more years must submit a formal application to the Admissions Office. All other returning students should contact the Academic Dean and/or Department Chair in the major declared at the time of separation for academic advisement and registration procedures. If undeclared at the time of separation, you should contact the Office of Mentoring and Advising.

### **Veterans in Continuing Education Programs**

All eligible persons desiring to receive educational assistance through the Veteran's Administration are required to apply for admission to the University as degree candidates.

### **Advanced Placement and Advanced Credit**

New freshmen that have had the opportunity to do advanced work while in high school may receive college credit for advanced placement work. Applicants bear the responsibility of notifying the Office of Admissions of the AP courses they have taken, the scores received, and the number of transferable credit hours earned.

The University offers advanced credit through the College Level Examination Program (CLEP). Requests for CLEP credit should be made to the Director of the Center for Excellence in Teaching and Office of Testing.

### **Articulation Agreements**

The University has Articulation agreements with selected regionally accredited two-year institutions. The intent of the articulation agreement is to facilitate the smooth transfer of students enrolled in a degree program or associate degree graduates to the upper (junior) level of corresponding major programs at Delaware State University. The basic terms of the Articulation require that the associate degree graduates meet the following admission standards:

- Complete an associate degree with a minimum of sixty (60) semester hours, exclusive of developmental coursework and “D” coursework.
- Achieve a cumulative grade point average of not less than 2.0 on a 4.0 scale as calculated by the transfer college.
- Follow the appropriate program of study as agreed upon by both Delaware State University and the transfer college.
- The associate degree holder will not be required to take college entrance exams (neither SAT, nor ACT) prior to transfer to Delaware State University.

In order to complete the baccalaureate degree, a student who transfers under this agreement may be required to take no more than sixty-eight (68) additional credits unless:

- The student changes his/her program upon entering Delaware State University.
- The combination of additional General Education Requirements, if any, and the requirements of the student’s major at Delaware State University totals more than sixty-eight (68) credits.

Under the terms of the articulation agreement, transfer students will be subject to the same requirements as “native” students unless waived. “Native” students refer to the students who begin their undergraduate education at Delaware State University.

### **Dual Admissions Program**

Delaware Technical and Community College (DTCC) and Delaware State University (DSU) offer dual admission for students enrolled in DTCC - DSU Connected Degree programs. Connected Degree programs are those associate degree and baccalaureate degree programs that have a current articulation agreement signed by Delaware Technical and Community College’s and the Delaware State University’s Presidents. A list of Connected Degree programs may be obtained from your DTCC Advisor or Counselor; or by visiting the Delaware State University or DTCC website. Dual Admission provides services to help students smoothly transfer to DSU to pursue their bachelor’s degree after DTCC graduation.

### **Dual Admission Services**

Dual Admission provides eligible students with the following services:

1. Admission to DSU while you are completing your associate degree provided you comply with requirements.
2. Academic advisement and University information at meetings during the Fall and Spring semesters at each DTCC campus provided by the University about your connected degree which will lead to a bachelor's degree program.
3. Priority pre-registration in University courses for your first University semester after Delaware Tech graduation.
4. Locked-in bachelor's degree requirements for the specific Connected Degree program in effect at the time you enter the Dual Admission program. You have the choice of completing bachelor's degree requirements in effect at the time you signed the Intent- to-Enroll form or of completing new requirements that may go into effect after that time. If a required course is no longer offered, the University will designate a substitute course. However, neither the number of credit hours nor the number of semesters required for degree completion will be increased.
5. Guaranteed placement in University residence halls, if desired, provided you comply with established residence policy and application procedures.

### **Dual Admission Eligibility**

If you are enrolled in a Delaware Tech – DSU Connected Degree program, you can be conditionally admitted into the University and the designated bachelor's degree program provided you:

- Sign a non-binding, Intent-to-Enroll Form any time after enrolling in the Delaware Tech Connected Degree program and before attaining thirty (30) college credits at Delaware Tech or another college or university.
- Complete the Delaware Tech associate degree with a minimum GPA of 2.5.
- Do not attend another institution between the time you graduate from Delaware Tech and formally enroll at the University.
- Formally enroll in the University within one (1) year of Delaware Tech associate degree completion.
- Complete other regular University admissions and Connected Degree requirements. You must inform your DSU Advisor in your last semester at Delaware Tech of your planned date of enrolling at DSU, and you must complete the required short form. You must do this by January 31st if your final semester is spring or September 15th if your final semester is fall.
- Comply with the appropriate enrollment deadlines determined by the University. Financial aid forms must be submitted by February 28th for the fall semester and October 1st for the spring semester. If you wish to live on campus, the application form and deposit must be received by March 30th for the fall semester and November 1st for the spring semester. You must arrange for Delaware Tech to send your transcript within one (1) week after your graduation. Be sure to send it to DSU Admissions Office, Attn: Dual Admissions.

You will be ineligible for Dual Admission, and the benefits that stem from this program, if you:

- Fail to complete the associate degree portion of the Delaware Tech/University Connected Degree program.
- Fail to adhere to the provisions of the Connected Degree program or the provisions of this agreement.
- Withdraw in writing your Intent-to-Enroll.

If you are ineligible for Dual Admission and desire University admission, you may apply for admission under the University's regular transfer admissions process.

DTCC - DSU Connected Degree Programs include

- Accounting Technology to General Management
- Biotechnology to Biological Sciences
- Business Administration to General Management
- Chemistry
- Criminal Justice
- Early Childhood Education
- Elementary Education
- Exercise Science
- Hospitality Management
- Human Resources to Psychology
- Human Resources to Social Work
- Mathematics Secondary Education
- Nursing

### **Once Accepted to the University**

After acceptance, each student is required to submit the University Health Form, which includes health history, immunization record (including dates for MMR#1, MMR#2 & PPD), and a recent physical examination signed by a current medical provider. International students must also present proof of health insurance prior to enrolling. New students are also required to attend New Student Orientation and submit all official final transcripts.

### **Admission Inquiries**

The Office of Admissions is responsible for administering all matters relating to the admission of undergraduate students to the University. All inquiries about admission requirements and applications for admission should be addressed to:

Delaware State University  
Office of Admissions  
1200 North DuPont Highway  
Dover, DE 19901  
(302) 857-6351  
(800) 845-2544 (toll free)  
(302) 857-6352 (fax)  
[admissions@desu.edu](mailto:admissions@desu.edu)



# **THE GENERAL EDUCATION PROGRAM**

## **A REACH TOWARD EXCELLENCE**

**Effective Fall 2009**

### **RATIONALE**

**The General Education Program** at Delaware State University is predicated on the University's definition of **the educated person**. Delaware State University, through its General Education curriculum and its specialized major curricula, provides a set of academic experiences designed to produce within students the knowledge, skills, and attitudes that empower them to solve problems, clarify values, secure and sustain meaningful professions and careers, and embrace learning as a life-long process. Thus, Delaware State University aims to graduate an educated person possessing the following characteristics:

- Fundamental skills in communication, computation, and critical thinking necessary for life-long learning.
- A sense of self-dignity and self-worth.
- An ever-expanding capacity for appreciating, understanding, and sympathizing with the human condition in all its variations of cultural, social, racial, ethnic, moral, and physical diversity.
- Knowledge and skills necessary for meaningful and productive living.
- A desire to know more about one's environment and the global perspective.

**The General Education Program** is the University's commitment to providing breadth and depth to students' academic, cultural, social, moral, ethical, and physical development during their undergraduate experience.

The General Education Program recognizes that teaching and learning embrace several bodies of knowledge, skills, and sensibilities that combine to form the **whole student**. Therefore, at Delaware State University the goals of the General Education Program are divided into those **areas of study** that best describe the experiences that all students are required to complete in order to complement those experiences that the specialized curriculum in each major program of study provides.

### **GOALS**

The following goals of General Education speak to breadth, integration, and scaffolding of knowledge, skills, and sensibilities that are inherent in the mission of the University. The goals of General Education are the following:

1. General Education should focus on the essential attitudes and behaviors that promote reflection and encourage life-long learning, wellness, and engagement with ideas, issues, and new experiences.
2. General Education should foster the development of critical thinking; curiosity about the social and natural worlds in which we live; appreciation for the complexities of knowledge and tolerance for ambiguity; and a capacity for attaining perspective on one's own life through self-examination and the study of others.
3. General Education should engage students in activities that strengthen their ability to read, write, speak, listen, and think effectively.
4. General Education should provide students with opportunities to examine and reflect upon moral and ethical problems and issues.
5. General Education should enable students to use technology in order to access and manipulate information competently.
6. General Education should enable students to understand and appreciate the ways social and cultural differences and similarities structure human experiences and knowledge -- in the arts,

humanities, mathematics, natural sciences, and social sciences. As an important aspect of General Education, students should understand multicultural dimensions of the world in which we live, especially the experiences of people of African descent.

7. General Education should emphasize study in breadth and encourage students to explore the ways disciplined inquiry in the major can shed light on broader issues in their own lives and to render service to humanity.

## COMPONENTS OF THE PROGRAM

The General Education Program at Delaware State University consists of a Core, Breadth Areas, Senior Capstone Experience, and Across-the-Curriculum (A-t-C) Learning Outcomes. These are described below.

**THE CORE** -- those courses that **all** students must complete because they are fundamental to all learning and basic to the mission of the University. The Core provides students with the knowledge and habits of mind that they will need in order to accomplish their academic goals in all major programs. A grade of “C” or better is required in all Core courses.

Core Course #	Core Course Name	Credits
xx-191	University Seminar I	1
xx-192	University Seminar II	1
ENGL-101	English Composition I	3
ENGL-102	English Composition II	3
MSVC-100	Lifetime Fitness and Wellness	2
ENGL-200	Speech	3
GLST-395	Global Societies (Students must have junior status)	3

## COURSE DESCRIPTIONS

### XX\*-191, XX\*-192. UNIVERSITY SEMINAR I & II

**1:2:0, 1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour each semester.

Students entering Delaware State University with sixty (60) credit hours or an associate degree do not have to take University Seminar. Some Departments may advise these students to take the course since they need the content of the Departmental component of University Seminar. A grade of “C” or better is required.

\*XX is the primary number of the Department in which the student is majoring. Undeclared majors take UNIV-191 and UNIV-192. *No more than one (1) credit hour of University Seminar I and one (1) credit hour of University Seminar II can be used in the GPA and towards graduation. The Department Chair and/or the Advisor will decide which of the courses will count towards graduation.*

**GLST-395. GLOBAL SOCIETIES****3:3:0**

The course is designed to develop persons with educated and informed perspectives on the world for the 21st century. These are individuals who know their world, and who can understand facets of globalism which transcend time, space, and place. Factors to be considered include global geography; global themes of the past; the global marketplace; and global political, social, and cultural developments. This will enable students to appreciate the past, comprehend the present, and be effective and knowledgeable global citizens for the future. A grade of "C" or better is required. Students must have a minimum of sixty (60) credit hours to register for Global Societies.

Credit, three hours.

**BREADTH AREAS** -- those categories of courses from which students must choose a designated number of credit hours that provide breadth and the well-roundedness of a liberal education in the arts, history, other humanities, natural sciences, mathematics, and social sciences. Minimum grade requirements for Breadth courses vary by major program. See curriculum sheet.

<b>Breadth Course #</b>	<b>Breadth Area</b>	<b>Minimum Credits</b>
HIST-xxx	History	3
ENGL-xxx	Literature	3
xx-xxx	Social Sciences	3
xx-xxx	Arts/Humanities	6
MTSC-xxx	Mathematics	3
xx-xxx	Natural Science with Laboratory	3

The following page lists the allowed courses for Breadth Areas. It is important to note that each student and Advisor must consult the curriculum and the Across-the-Curriculum plan for specific requirements of their program.

# GENERAL EDUCATION PROGRAM FALL 2010: BREADTH COURSE

List as of 6/17/2009

(Minimum acceptable grade is "D" unless Program specifies a higher minimum on the curriculum sheet.)

## **HISTORY (Choose one)**

HIST-101	World History To 16 <sup>th</sup> Century ♦
HIST-102	World History From 16 <sup>th</sup> Cent. ♦
HIST-201	American History To 1865
HIST-202	American History From 1865
HIST-203	African-Amer. Hist. To 1865 ■
HIST-204	African-Amer. Hist. From 1865 ■
HIST-205	Themes in World History ♦

## **LITERATURE (Choose one)**

ENGL-201	World Literature I ♦
ENGL-202	World Literature II ♦
ENGL-205	African-American Lit I ■
ENGL-206	African-American Lit II ■

## **SOCIAL SCIENCE (Choose one)**

GEOG-201	World Regional Geography ♦
PLSC-103	Intro. To Political Science
PLSC-200	Amer. National Government
PSYC-201	Introduction to General Psych
SCCJ-101	Introduction to Sociology ♦
SCCJ-206	Cultural Anthropology ♦
ECON-201	Principles of Macroeconomics

## **ARTS/HUMANITIES (Choose two)**

ART-101	Introduction to Art
ART-103	Introduction to Drawing
ART-104	Two Dimensional Design
ART-204	Drawing & Painting (Non-majors)
ART-205	Intermediate Drawing
ART-206	Three-Dimensional Design
ART-304	Introduction to Painting
ART-315	Modern Art
ART-316	African-American Art History ■
ART-317	Art History I
MUSC-100	African-American Music ■
MUSC-101	Introduction to Music

♦ Satisfies half of the Multicultural A-t-C requirement. ■ Satisfies the African-Am. Experience A-t-C requirement.

## **ARTS/HUMANITIES (Choose two) (Continued)**

ENGL-113	Introduction to Theatre
PHIL- ____	All Philosophy courses without prerequisites
____ - ____	All World Languages ♦

## **MATHEMATICS (Choose one - Use placement results)**

MTSC-110 & 111	Algebra A and Algebra B: Both must be taken to meet Mathematics
MTSC- ____	Other Mathematics courses 101 or above which have no prerequisites or by placement

## **NATURAL SCIENCE WITH LABORATORY IN COLLEGE OF MATHEMATICS, NATURAL SCIENCE, & TECHNOLOGY (CMNST) (Choose one)**

BIOL-100	Introduction to Biology
BIOL-103	Human Biology
BIOL-105	Basic Ecology
BIOL-107	Human Heredity
BIOL-110	Essential Topics in Biology
BIOL-111	Human Diseases
BIOL-101	General Biol. (Science Majors ONLY)
CHEM- ____	All Chem. courses w/o prerequisites
ASTR-101	Descriptive Astronomy
PHYS-121	Concepts of Physics
PHYS-123	Concepts of Modern Physics
PHYS-131	Energy
PHYS-141	Sound and Acoustics
PHYS-151	Introduction to Light and Optics
PHYS-111	Introduction to Physics I
PHYS-201	General Physics I (Phys & Eng
PHYS-211	Fundamentals of Physics I

## **SENIOR CAPSTONE EXPERIENCE (Consult Curriculum)**

**Senior Capstone Experience** -- is designed to integrate General Education and the major program. This experience may take the form of senior seminar, internship, or student teaching with a seminar. The Capstone serves as the culmination of the student's undergraduate education. In it, a student demonstrates competence in the body of knowledge, skills, and attitudes inherent in a major program. It is also the setting in which the student shows an understanding of the breadth of knowledge and skills that a mastery of General Education provides. It enables students to make "real world" connections to their discipline and to other disciplines as well. The Senior Capstone Experience brings General Education and major programs of study together providing an opportunity for students to demonstrate their becoming —the educated person."

**Course Description for SENIOR CAPSTONE EXPERIENCE--3 HOURS (Minimum)**

The senior capstone experience is a course in a major program designed to integrate General Education and the major course of study. It enables the student to demonstrate the following: 1) a competence in the major, and 2) an understanding of the breadth of knowledge, skills, and sensibilities that General Education provides. The course may be planned and/or implemented in an interdisciplinary manner.

**ACROSS THE CURRICULUM (A-t-C)** -- learning outcomes which students must demonstrate through various assessments. If graduates from Delaware State University's undergraduate programs are to become effective communicators, critical thinkers, and problem-solvers in the world's pluralistic and global societies, then some critical concepts should infuse the General Education Program and major curricula. These Across-the-curriculum outcomes should be linked with research and professional development that lead to the most effective instructional strategies, course activities, and assessments of student learning and program effectiveness.

The Across-the Curriculum concepts that are integrated throughout the General Education Program and major curricula, and which produce the desirable learning outcomes in students are the following:

- 1) Reading, Speaking, and Listening Across-the-Curriculum (RSL); 2) Self-Evaluation;
- 3) Wellness; 4) Information Literacy; 5) Computer Competency; 6) Writing in the Major (Outside the Capstone); 7) Quantitative Reasoning; 8) African-American Experience; 9) Multiculturalism;
- 10) Critical Thinking/Problem-Solving; and 11) Global Issues.

Since these areas are integrated throughout the curriculum, there will be overlaps between some breadth courses, major courses, and across the curriculum requirements.

**1. Reading, Speaking, Listening**

College graduates should be able to communicate effectively. Students should be able to do the following: comprehend, analyze, interpret, and evaluate various texts; write and speak effectively and correctly; and listen actively to what Instructors and peers are saying. Communicating effectively is not the exclusive domain of the English Department. It is the responsibility of all instructors to inculcate effective communication skills throughout the General Education and major curriculum.

**2. Self-evaluation**

In order to become productive and contributing citizens, students must have a critical self-understanding. Active engagement of students in their education is important. This creates a sense of relevance. Students can also develop an internal locus of control and other mature ways of thinking. Self-evaluation is evident in curricular and co-curricular activities, journal reflections, and course activities that encourage students to examine their ethics, core beliefs/values, communication and leadership skills, strengths, weaknesses, and likes/dislikes, etc. Students can then be prepared to make choices in majors, minors, career aspirations, and important life decisions.

### **3. Wellness**

To be able to think clearly, develop effective study skills, and be prepared for careers and life-long learning, students must demonstrate an understanding of the principles involved in wellness. They should be able to share these principles with family members, friends, and associates. The wellness component aims to address issues involved in nutrition, well-being, social adjustment, and psychological and physical health.

### **4. Information Literacy**

In order to be successful in this information age, all graduates should have knowledge/experience in the process of information acquisition. This includes researching library databases, understanding and performing scholarly searches, completing citations, evaluating information for relevance/reliability, and compiling information for a unified purpose. Information literacy must be incorporated in General Education courses as well as major courses to demonstrate field-specific applications.

### **5. Computer Competency**

To the greatest extent possible and wherever practical, computer and information technologies should be integrated into General Education courses and generally throughout the curriculum. College graduates should be able to do the following: a) use computers and other technology; b) access and manipulate spreadsheets and databases; c) use printed and computerized resources to locate information; and d) use and prepare multimedia applications. Students needing formal instruction in this area should take courses such as Applying Computers (INFO-101) and Microcomputer Applications (MIS-105). These and other program specific courses provide students with opportunities to analyze the efficient utilization of computers to enhance productivity at all levels of organization, from office personnel to executive management. Students examine and utilize the different types of hardware, software, operating systems, multimedia, the Internet, and Web page design, etc.

### **6. Writing in the Major**

College graduates should be able to write coherent essays, reports, and thesis papers, using the standard form of the English language that is relatively free from grammatical, mechanical, and usage errors. To build on the foundational English composition skills, students will be required to apply these writing skills in their field of study as well as across the General Education Program.

### **7. Quantitative Reasoning**

This competency may be met by courses or modules in the major or by a second mathematics course. Some examples of quantitative reasoning include:

- Mathematical analysis, computations, charting, graphing, and algebraic problem solving.
- Numerical analysis, numerical relationships, patterns, and estimation measurement.
- Quantitative problem solving or real-world problem solving.
- Data analysis, data interpretation, and statistical analysis.
- Logical thinking and steps to construct feasible solutions to various problems.

The specific methods of quantitative analysis will vary by program.

### **8. African-American Experience**

Delaware State University's legacy as a historically black college enables it to provide students with the opportunity to understand African-American perspectives in history, liberal arts, and society. Courses such as African American Experience, African American Art History, African American Literature, African American Music, and other major courses provide exposure to the African

American viewpoints in American society. Students will demonstrate an understanding of the roots of slavery and resulting African-American experiences, as well as an appreciation of the contributions of African-Americans.

#### **9. Multiculturalism**

College graduates must understand how to develop and manage human relationships by being able to identify and adapt to the needs, values, expectations, and sensibilities of others. Students must be able to do the following: a) understand and consider diverse points of view; b) determine what is appropriate in a given situation given the norms of groups and cultures which provide guidance for acceptable language and behavior; c) be open-minded about and inclusive of other cultures; and d) understand different points of view based on gender, ethnicity, race, or national origin.

#### **10. Critical thinking / Problem-solving**

College graduates should be able to move beyond the mere conveying or restating of others' facts and ideas. Students should be able to do the following: a) reflect upon, question, analyze, and evaluate information; b) assess bias, narrowness, and contradictions; c) formulate hypotheses and alternatives; d) evaluate an argument in terms of reasoning and applicability; e) determine how new data may lead to confirmation or questioning of conclusions; f) make inferences, comparisons, formulate frameworks or categories, classify data, and translate information from one medium to another; and g) analyze and evaluate their own arguments and those of others in order to confirm or deny the accuracy, validity, and reliability of their own reasoning and of the various sources of information they hear or read.

Students should also be able to conduct disciplined inquiry and be able to do the following: a) determine the nature of a problem; b) analyze the problem and determine possible solutions; c) assess the advantages and disadvantages of each possible solution; d) determine the most effective and efficient of the optional solutions; and e) execute the solution. Being able to think critically and solve problems is one of the hallmarks of becoming an educated person.

#### **11. Global Issues**

College graduates should understand that their world is no longer circumscribed by the boundaries of nations and continents. The world is a global community and students should understand and appreciate the pluralism of this global community. Students should be able to demonstrate an understanding of various political and economic systems, and the positive and negative aspects of globalization.

**Across-the-Curriculum (A-t-C) learning outcomes of General Education** -- should infuse as many other courses as possible. These outcomes connect General Education courses to each other and to the majors. The following page outlines some generic guidelines for meeting Across-the-Curriculum outcomes. It is important to note that each student and Advisor must consult the curriculum and the Across-the-Curriculum plan for specific requirements of their program.

## ACROSS THE CURRICULUM (A-t-C)

List as of 6/24/2009

(Please note: The list below is a general guide. Students and Advisors must consult the individual program Across-the-Curriculum Plan for additional course requirements or options.)

### **AFRICAN-AMERICAN EXPERIENCE** **(Choose one)**

ENGL-205	African-American Literature I
ENGL-206	African-American Literature II
ART-316	African-American Art History
MUSC-100	African-American Music
HIST-203	African-American History To 1865
HIST-204	African-Amer. Hist. From 1865**

### **MULTICULTURAL (Choose two)**

ENGL-201	World Literature I
ENGL-202	World Literature II
PHIL-201	Introduction to Philosophy
HIST-101	World History to 16 <sup>th</sup> Century
HIST-102	World History From 16 <sup>th</sup> Century
HIST-205	Themes in World History
— - —	All World Languages
SCCJ-101	Introduction to Sociology
SCCJ-206	Cultural Anthropology
MGMT-440	International Management

### **READING/SPEAKING/LISTENING** **ACROSS THE CURRICULUM**

Specified by the Program – Consult Curriculum

### **SELF EVALUATION (Choose one or more)**

PSYC-201	Introduction to General Psychology
— - —	Modules and co-curricular activities designed to develop student career development, goal setting, & study skills.

### **WELLNESS (Choose one or more)**

PSYC-201	Introduction to General Psychology
— - —	Modules and co-curricular activities that address components of wellness.

### **INFORMATION LITERACY (Choose one or more)**

Specified by the Program – Consult Curriculum

Courses in which students locate, evaluate, and utilize library and internet materials.

### **COMPUTER COMPETENCY (Choose one or more)**

Specified by the Program – Consult Curriculum

EDUC-344	Instructional Technology in Education
INFO-101	Applying Computers
MIS-105	Microcomputer Applications

### **WRITING IN MAJOR – OUTSIDE** **CAPSTONE (Choose one or more)**

Specified by the Program – Consult Curriculum

ENGL-211	Creative Writing
ENGL-311	Advanced Composition

### **QUANTITATIVE REASONING (Choose one or more)**

Specified by the Program – Consult Curriculum

MTSC-__	A second course in the Mathematics Department
— - —	Courses or modules in other areas

**NOTE: A-t-C list is continued on next page.**



## ACROSS THE CURRICULUM (A-t-C) – LIST CONTINUED

List as of 6/24/2009

(Please note: The list below is a general guide. Students and Advisors must consult the individual program Across-the-Curriculum Plan for additional course requirements or options.)

### **GLOBAL ISSUES (Choose one or more)**

Specified by the Program – Consult Curriculum

MGMT-440	International Management
— - —	Courses or modules in other areas.

### **CRITICAL THINKING/PROBLEM**

### **SOLVING ISSUES (Choose one or more)**

Specified by the Program – Consult Curriculum

PHIL-101	Critical Thinking
— - —	A second science course or other courses/modules.

### **NOTE:**

**Breadth Courses (not Core courses) may be used to satisfy Across-the-Curriculum requirements. Each student must take all the Core Courses.**

## ACADEMIC REGULATIONS AND POLICIES

### Pre-Registration

All students returning to Delaware State University following the current semester of attendance should pre-register during the period prescribed in the Academic Calendar. Returning students who do not register prior to on-site registration will be assessed a “failure to pre-register fee”. To participate in online registration, a student must be advised and obtain his/her unique alternate registration pin number from his/her academic department: The alternate registration pin number is different from the pin needed to view grades, student accounts, and financial aid information. To ensure that all matriculating students are advised prior to registering each term, a new registration pin number is assigned to each student each semester.

### Registration

Every student is expected to complete registration before the first day of classes each semester. Students are advised to see their assigned Departmental Advisor during the pre-registration period specified in the Academic Calendar to select courses for the next semester. Students are officially registered for a course only when they have completed all procedures applying to registration, including making full-payment or payment arrangements for any outstanding balance. **Students not officially registered for a course will not receive credit for the course at the end of the semester.**

A student who fails to register prior to the Late Registration period, which begins on the first day of classes, is charged a late registration fee. Returning students who register during the late registration period are assessed a failure to pre-register fee and a late registration fee.

### Online Registration

It is required that all degree-seeking students consult with an Advisor prior to registering. Students may have their academic departments continue to enter their registrations and schedule changes (drop/adds) or they may register and make adjustments to their schedule online. To obtain their unique “alternate registration pin number” for registering online, students must see their Academic Advisor. To register online, students may visit the University’s myDESU web site at [www.desu.edu](http://www.desu.edu).

Students may view their transcripts as well as student accounts and financial aid information at the myDESU website listed above. Unofficial transcripts and schedules may also be printed.

### Change in Major or Personal Data

Students must submit major and personal data (address or telephone number) changes on the appropriate forms available in the Office of Registration and Records as often as changes are made or may update their personal data on the myDESU website listed above.

### Credit Hours

Academic work in University courses is measured in semester hours of credit. A semester hour is equal to fifty (50) minutes of recitation or lecture work per week for one semester. A minimum of two (2) hours of laboratory work yields one semester hour.

**Credit will not be accepted for a course in which a student is not officially registered, nor will credit be granted for the same course twice.**

## Classification of Students

0-29	Hours	Freshman
30-59	Hours	Sophomore
60-89	Hours	Junior
90+	Hours	Senior

## Grading System

A grade is reported for each course in which a student is enrolled. The grade is an indication of the quality of the student's performance in a course.

Mid-semester and final grades will be issued to all students for all courses enrolled. Final grades become a part of the student's permanent record and are used in computing grade point averages. If a student repeats a course, the highest grade in the course is calculated in the grade point average (G.P.A.). The lower grade earned in the course is disregarded when calculating the GPA, but is not deleted from the student's record. On the student's transcript, an "E" placed next to a course indicates the repetition of a course excluded from the GPA and an "I" indicates the repetition of a course included in the GPA. The GPA is computed by dividing the total number of quality points by the total number of GPA hours earned. Non-traditional grades including grades of I, W, WA, AU, S, U, and P are not computed in the GPA.

The Dean of the College in which the student is a major must approve grade changes or the school in which the student is a major during the semester of instruction **immediately** following the semester the grade was issued. The Dean of the College of Humanities and Social Sciences must approve grade changes for undecided majors. All grade changes submitted later than the succeeding semester must be approved by both the Provost and Vice President for Academic Affairs. Approved grade changes will be forwarded to the Office of Registration and Records for processing.

*The grading system at Delaware State University is shown below:*

Grade	Quality Points	Explanation
A	4.00	Excellent
B	3.00	Good
C	2.00	Fair
D	1.00	Poor
F	0.00	Failure
WF	0.00	Withdrawal/Fail
I	(Not Computed in GPA)	Incomplete
W	(Not Computed in GPA)	Withdrew
WA	(Not Computed in GPA)	Administrative Drop
AU	(Not Computed in GPA)	Audit – Not Taken For Credit
S	(Not Computed in GPA)	Satisfactory
U	(Not Computed in GPA)	Unsatisfactory
P	(Not Computed in GPA)	Pass

## Transfer Credit Policy

Grades received in courses taken at other institutions are not calculated in Delaware State University cumulative GPA; only the credits may be transferred.

### **Removal of Incompletes**

Incomplete coursework due to reasons clearly beyond the control of the student will yield the grade —I. This grade must be removed by the end of the first six (6) weeks of the next semester of the current academic year (i.e., for fall, the next semester is spring; for spring, the next semester is fall) unless prior arrangements are made in writing with the Instructor, with a copy sent to the Registrar. Otherwise, the grade —I is automatically changed to —F by the Office of Records and Registration.

Academically suspended students who have —incompletes” may register only if they have removed the incompletes and achieved the necessary 2.00 average no later than the last day of the late registration period.

NOTE: No student may graduate with an —F” grade or —In Progress” on his/her transcript.

### **Academic Load**

A normal load is 12-19 credit hours per semester. The normal load may be exceeded under the following circumstances:

1. On the recommendation of the Academic Advisor, the Department Chair may approve as many as nineteen (19) hours if the curriculum of the Department specifically calls for more than eighteen (18) hours.
2. On recommendation of the Academic Advisor and the approval of the Department Chair and the appropriate Academic Dean, a student may schedule an overload not to exceed twenty-three (23) hours if all of the following conditions are met: 1) the student has a 3.00 cumulative average (minimum); 2) if during the previous semester the student carried twelve (12) or more hours; and 3) if, during the previous semester, he/she carried twelve (12) credits and he/she did not fail any course and earned a 3.00 grade point average (minimum).

### **Overload Fee**

For all course overloads, students will pay a fee equivalent to the cost-per-credit for each hour that exceeds nineteen (19) credits.

### **Full-Time Status**

The minimum course load for a full-time status is twelve (12) credit hours per semester. A full-time student is normally expected to complete thirty (30) credit hours of course-work each academic year (Fall, Spring, and Summer terms); and must complete a minimum of twenty-four (24) hours of coursework each academic year to qualify for financial aid. In addition, full-time students must meet the academic regulations stated elsewhere in the University Catalog.

### **Class Attendance Policy**

Regular class attendance is a vital part of the educational process. Students are required to attend all classes. If a faculty member chooses to evaluate attendance as part of a grade for a course, such a policy must be written in the syllabus, which is distributed at the beginning of a course. The policy must state what part of the course grade is based on attendance and how individual absences will be assessed. If a faculty member declines to integrate attendance as part of a course grade, under no circumstances may a student’s final grade be reduced solely because of class absences.

The Office of the Provost and Vice-President for Academic Affairs issues excuses for students who are absent from classes for participating in other official University related activities or on University related travel. In all other cases, only the Instructor can approve a student's request to be excused from class.

### **Documentation for Non-Attendance (No Show Policy)**

All enrolled students are required to attend each class at least once before the last day to add classes in order to verify participation in the class. Failure to verify participation in a class before the week after the last day to add a class will result in the student being classified as a ~~no~~ "no show" for the course and potentially receiving a failing grade of (~~WF~~ "Withdrawal/ Fail) for non attendance.

### **Adding and Dropping Classes Online**

Eligible students without financial holds are permitted to add and drop classes online at the University's myDESU website at [www.desu.edu](http://www.desu.edu). The approval to adjust the course schedule online must be obtained from the student's Academic Advisor prior to going online to adjust his/her schedule.

### **Adding Classes**

To add a class, students may go online after obtaining approval from their Academic Advisor or Department Chair or follow the steps below:

1. Obtain a Notice of Class Change form (Drop/Add Slip) from their academic department.
2. Complete the student and class information parts of the form.
3. Obtain the signatures of the appropriate Instructor and the appropriate Advisor/ Chair.
4. Submit the completed form to the Office of Records and Registration. The effective date of the drop is the date the slip is filed in the Records Office.

The deadline for adding of classes is outlined in the academic calendar. Exceptions to the deadline period set forth shall be allowed only in cases involving extraordinary circumstances. Such exceptions shall be at the sole discretion of the appropriate Academic Dean.

### **Dropping Classes**

To drop a class, students may go online after obtaining approval from their Academic Advisor or Department Chair or follow the steps below:

1. Through the End of Late Registration:
  - a. Obtain the Notice of Class Change Form (Drop Slip) from the academic department.
  - b. Have Instructors and Advisors/Chairs sign and date the form.
  - c. Submit the form to the Office of Records and Registration. The effective date of the drop is the date the slip is filed in the Records Office. Courses dropped prior to the end of the Late Registration Period will not appear on the student's grade report or transcript (a current Refund Policy statement may be obtained from the Office of Student Accounts to determine the student's financial responsibility).
2. After Late Registration through the Scheduled Last Day for Dropping Classes:
  - a. Obtain the Notice of Class Change Form (Drop Slip) from the academic department.
  - b. Have Instructors and Advisors/Chairs sign and date the form.
  - c. Submit the form to the Office of Records and Registration. The effective date of the drop is the date the slip is filed in the Records Office. The dropped course will appear on the grade report and transcript with a grade of ~~W~~ "W" for ~~Whdrew~~ "Withdraw" (a current Refund Policy statement may be obtained from the Office of Student Accounts to determine the student's financial responsibility for courses dropped during this period).

3. After the Scheduled Last Day for Dropping Classes and up to the Last Week of Classes:
  - a. Obtain the Notice of Class Change Form (Drop Slip) from the academic department.
  - b. Have Instructors and Advisors/Chairs sign and date the form.
  - c. Students must obtain the signature of the Dean of the School/College. The Dean is the only University official who may approve the dropping of a class at this point in the semester. The appropriate Dean shall permit students who officially request to drop specific classes from their academic schedules to do so only in cases involving extraordinary circumstances that are clearly beyond the control of the students making such a request. **In no case shall a student be permitted to drop a class for any reason that relates exclusively to academic performance.**
  - d. Submit form to the Office of Records and Registration. Course will appear on grade report and transcript with a grade of ~~WA~~ for ~~Administrative Withdrawal~~.”

### **Withdrawal from the University**

To withdraw from the University, students must follow the steps listed below:

#### **Official Withdrawal from the University**

1. All Withdrawals from the University are initiated in the Office of Records and Registration, Administrative Building first floor.
2. Students, who are unable to physically obtain a *Withdrawal Form from the Office of Records and Registration*, can send a written request via fax or email requesting a withdrawal for the current term.
3. Once the student has completed the form in the Office of Records and Registration, the student has a 5-day grace period to stop the withdrawal process.
4. An email is sent to the student confirming the start of the withdrawal process. This email is copied to a point person in each Department/area involved in the withdrawal process.
5. After the 5-day grace period, if the student has not requested to stop the withdrawal process, an email will be sent to the Registrar to have classes removed.
6. Housing, Student Accounts, and Financial Aid signs off on the withdrawal once they have reviewed the account.
7. Once every Department has signed off on the withdrawal, a mass email with the withdrawal summary will be sent out to: Housing, Registrar, Student Accounts, Financial Aid, Deans, Veterans Affairs, Athletics, Band, and Choir.

#### **Administrative Withdrawal from the University**

If a student, for some compelling reason (such as a documented extreme personal difficulty or documented medical reason), requests to be administratively withdrawn from the University for a previous semester, then that student must follow the procedure listed below.

Administrative withdrawal from the University is rarely granted, but some students' circumstances may require it. The Provost and Vice President for Academic Affairs confirm the approval for administrative withdrawal from the University:

1. Student must submit in writing the request for administrative withdrawal from the University, along with documentation, to the appropriate Academic Dean. The request must state the reason(s) for the request and specify the semester to be withdrawn.
2. The Dean submits his or her recommendation to the Provost and Vice President for Academic Affairs.

3. If the Provost and Vice President for Academic Affairs approve the request, then the student is reported to the Office of Records and Registration as ~~Administratively Withdrawn~~ and a grade of ~~WA~~ is assigned for all courses taken during that semester. The Provost and Vice President for Academic Affairs will also inform the student in writing of his/her decision.

A student who withdraws from the University on or prior to the last day to withdraw from the University will receive a grade of ~~W~~ in each course for which he/she is enrolled at that time. A student who officially withdraws from the University at any time after the last publicized date for withdrawal from the University will receive a ~~WA~~ grade in all courses for that semester.

Note: If a student has received financial aid, including a refund, from Title IV funds and completed less than sixty (60) percent of the semester from which he/she wishes to withdraw, then that student must refund the percentage of financial aid corresponding to the percentage of the semester the student has not completed.

### **Auditing**

Persons who wish to attend a course without receiving credit must obtain the consent of the Instructor and the Academic Advisor. As auditors, students are entitled to the advisory services of the Instructor. Persons with a full-time load pay no additional fees for auditing. Persons carrying less than a twelve (12) credit hour load are charged the per credit hour fee for the course.

The final grade of ~~AU~~ is assigned to the course and does not affect the grade point average. Courses taken for audit do not count toward full-time enrollment or for financial aid eligibility.

Official requests to audit a course are accepted by the Office of Records and Registration during the period between pre-registration and late registration (the period for submitting a request to audit a course coincides with the add period.) The Notice of Class Change form (Drop/Add Slip) should be used to change a course to audit status.

### **Major Academic Advisors**

Each student will be assigned a Faculty Advisor by his or her academic department. At a minimum, the Advisor will meet with the student each semester during the pre-registration period and officially approve the program of study before the student registers online or in the academic department.

### **Statement of Satisfactory Progress**

Students applying for Financial Aid must meet the United States Department of Education's and the University's Satisfactory Academic Progress requirements to be considered for and to continue to receive financial aid during their program of study. Delaware State University requires that a student must complete at least twenty-hour (24) credit hours at the end of an academic year and have at least a 1.70 GPA per semester during the first three (3) semesters as a full-time student, or a 2.0 cumulative GPA at the end of the fourth semester of matriculation and continue to maintain a 2.0 cumulative GPA for each academic year until graduation. Students must also complete their program of study within a maximum of 182 attempted credit hours. Students who do not meet the criteria for Satisfactory Academic Progress may appeal in writing to the Director of Financial Aid for reinstatement. The student must provide documentation with the statement of appeal indicating any special circumstances (e.g., medical records, accident report, medical bills, and change in program of study, etc.), which may have interfered with meeting eligibility.

### **Academic Probation, Suspension, and Dismissal**

A student whose grade point average is below 1.70 at the end of any semester shall be placed on academic probation for the succeeding semester unless the student's cumulative grade point average is 2.00 or greater. A student on probation is ineligible to hold elective positions or to represent the University in any capacity.

Students with academic probationary status or students who are academically suspended may attend Summer school at Delaware State University. The grades earned in Delaware State University summer school will be computed with the grades of the last semester that the student was enrolled to determine the academic status of the student.

A student on probation who fails to earn a 2.00 average the following semester will be suspended academically. At the expiration of one semester, the student may apply for readmission on probation. The student must complete a minimum of nine (9) semester hours with a grade point average of 2.00, "C", or better during the semester of his/her reinstatement.

If a student fails to earn the necessary 2.00 average, he/she will be dismissed from the University. He/she may apply to the Admissions Office for reinstatement if he/she successfully completes twelve (12) semester hours with an average of 2.00, "C", in Summer school at the University or attends another accredited institution and completes twenty-four (24) semester hours with a grade average of "C" or better.

A student on probation will be allowed to take no more than thirteen (13) semester hours. Students on academic probation who have incompletes in courses taken the previous semester will not be permitted to register until the incompletes are removed and an average of 2.00 is achieved.

### **General Probation**

Any student who has been dismissed, suspended, or placed on disciplinary probation may not represent the University in any public activity nor hold any elective office or appointment of responsibility during the semester affected.

### **Final Examinations**

Examinations are required in each course. Final examinations will be administered during the final examination period in the academic calendar of that academic year. A final examination schedule is available at the Registration link on the Delaware State University website, [www.desu.edu](http://www.desu.edu), and on the myDESU page of the website.

### **Lifetime Fitness and Wellness**

All students are required to take a two-credit hour Lifetime Fitness and Wellness course as part of the General Education curricula. The course is modified when the need exists for those individuals who are unable to participate in normal physical activity or for those individuals who are non-traditional students.

### **Electives**

A student may select the minimum designated number of electives based on interests and major departmental requirements. Selecting required or free electives should be done in consultation with the Faculty Advisor.



## **Transcript Requests**

A transcript of a student's academic record is released to a third party upon the written and signed request of the student. In accordance with the Family Educational Rights & Privacy Act (FERPA), exceptions to this include release of academic records to University officials with legitimate rights, educational interests, and transfer institutions.

An official transcript, one bearing the seal and Registrar's signature, is sent from the Office of Records and Registration directly to the official or institution specified by the student. There is a fee of \$10.00 for each transcript requested. A request for a transcript will normally be processed within 5-7 business days (*subject to change*) except during peak work periods such as registration, pre-registration, final examinations, and commencement. An official transcript includes all academic coursework at Delaware State University.

Transcripts submitted by the student from other institutions become the property of Delaware State University and are not reissued or copied for release. Requests for other institutions' transcripts must be made directly to the respective institutions.

## **Notification of Rights under FERPA for Delaware State University Students**

The Family Educational Rights & Privacy Act (FERPA) affords students certain rights with respect to their education records: They are:

1. The right to inspect and review the student's education records within forty-five (45) days of the day the University receives a request for access.

Students should submit to the Registrar, Dean, Head of the Academic Department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected.

If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading.

Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the University decides not to amend the record as requested by the student, the University will notify the students of the decision, and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

4. The student has the right to file a complaint with the U.S. Department of Education concerning alleged failures by Delaware State University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office  
U.S. Department of Education  
400 Maryland Avenue, SW  
Washington, D.C. 20202-4605

### **Directory Information**

The Family Educational Rights and Privacy Act permits the release of directory-type information to third parties outside the institution without written consent of the student provided the student has been given the opportunity to withhold such disclosure.

The University releases, upon inquiry to third parties outside the University, directory information without written consent of the student. Directory information includes name, address, telephone number, college, class, major, dates of attendance, and degree, honors, and awards conferred. Students may withhold directory information by going to the Office of Records and Registration.

Note: While the withholding request may be made at any time, students wishing to have directory information withheld from the student directory should submit their requests no later than three (3) weeks prior to the first day of fall semester classes.

## **Academic Honors**

### **The President's and Dean's Lists**

The President's List\* will honor those students who have distinguished themselves by earning a 4.0 in all their classes for the semester. Students must carry and pass a minimum of twelve (12) semester hours, earning a grade of A in all classes.

The Dean's List\* includes students who have earned a scholastic average of 3.25 to 3.99 and have completed twelve (12) or more degree (earned) credit hours at the end of the semester.

*Any grade of Incomplete will disqualify a student from the President's List or the Dean's List.*

### **Graduation with Honors**

Honor is awarded at graduation to the candidate who has attended the University for at least three (3) years (90 semester hours) and has met the following criteria:

SUMMA CUM LAUDE for a scholastic average of 3.75 or above.

MAGNA CUM LAUDE for a scholastic average of 3.50 to 3.74

CUM LAUDE for a scholastic average of 3.25 to 3.49.

Honorable Mention for transfer students who have completed the last two (2) years of academic work toward graduation (60 semester hours) at Delaware State University and a minimum GPA of 3.50.

## **Graduation Requirements**

### **Courses and Credits**

The minimum number of semester hours required for graduation is 120. This number varies with many of the major programs. Candidates must satisfactorily complete the requirements of the major study area in which they are enrolled to be eligible for graduation. Of the minimum total of 120 semester hours, 37 hours of General Education courses must be completed by the candidate. General Education Program Requirements are distributed as follows: sixteen (16) hours of Core Courses, six (6) hours of Arts and/or Humanities, three (3) hours of History, three (3) hours of Social Science, three (3) hours of Literature, three (3) hours of Mathematics, three (3) hours of Natural Sciences with laboratory, and the Capstone Experience course. Student must also complete the Across-the-curriculum requirements. See complete set of details in the General Education section above.

A candidate for the baccalaureate degree must complete the last thirty (30) semester hours of credit at Delaware State University. However, a student may enroll in 6-8 hours of courses at another institution upon approval of the Department Chair and the Academic Dean.

Students who transfer from other institutions must earn a minimum of thirty (30) semester hours at Delaware State University.

### **Grades and Grade Point Averages**

To qualify for graduation, the following grades and grade point averages must be earned by the candidate:

- A minimum overall grade point average of 2.00 ("C");
- A minimum grade of 2.00 ("C") in each course in a field of specialization;
- A minimum of 2.00 ("C") grade point average for the last thirty (30) semester hours of work at the University;

- No student may graduate with any incomplete (F) grades or “In Progress” on his/her transcript.

### **Double Degrees**

A student can be awarded two (2) degrees at the same time only if the degrees are different (e.g., Bachelor of Science and Bachelor of Arts degrees). If a student is pursuing two (2) fields of study for which the same degree is awarded, then only one (1) degree will be granted, but both fields of study will be listed on the degree. To be eligible for a second degree, the following conditions must be met: 1) coursework must be taken in two (2) fields of study, and 2) the student must satisfy the curriculum requirements of both Departments.

A student returning to Delaware State University for a second degree or major must officially declare a major in the second area and need only satisfy the additional requirements for the second major in order for the second baccalaureate degree to be conferred.

Diplomas are ordered by degree. One (1) diploma will be ordered for each degree earned and will not be issued to a candidate who has not satisfied all financial obligations to the institution, including loan programs administered by the University.

### **Application for Graduation**

Students who intend to graduate in December or May should file an application for graduation and audit in the Office of Records and Registration by October 15. Students who intend to graduate in the summer should file an application for graduation and audit in the Office of Records and Registration by August 1. Each student who applies for graduation will be assessed a graduation fee (NO EXCEPTIONS). **There is no guarantee that diplomas or regalia will be available for the graduation exercise for those students who apply after the deadline.**

Students who have met degree requirements are eligible for graduation at the close of any semester. Degrees are awarded on the students' transcripts upon completion of all requirements with the actual award date: December 15 for fall, May 15 for spring, and August 15 for summer.

Degrees are conferred once a year during the University's annual commencement exercise in May. All summer and December graduates are eligible to participate in the graduation exercise of the succeeding year. Diplomas will be mailed 6-8 weeks after the award date and Official transcripts will be available after the award date. Any student who fails to graduate for their appropriate term will need to re-submit a new application and audit for the new graduation date (NO EXCEPTIONS).

### **Participation in Graduation Exercises**

Students may participate in the annual graduation exercises in May **only** if they satisfy the following conditions:

1. File the application for graduation by October 15.
2. Enroll in and successfully complete all academic requirements for graduation prior to graduation.
3. Satisfy all financial obligations to the University.

A student is ultimately responsible for his or her own academic progress.

## STUDENT ACCOUNTS

### Student Expenses

All of the fees and charges shown in this section are for the **2009-2010** academic year and are subject to change. New fees and charges may be established at any time by the action of the Board of Trustees. A notice of all changes in fees will be mailed to all persons who have applied for admission. Students may obtain a current schedule of fees from the Office of Student Accounts, which will include the current fees, tuition, room and board, and any special instructional fees. Visit [www.desu.edu](http://www.desu.edu) to view the current fees online. This information is provided as a guide only and is not considered by the University to be a contract or binding.

### General University Fees

The charges listed below are paid to the University. They do not include items such as transportation, textbooks, personal items, and social affairs, etc. Students are advised to estimate approximately \$1,500 to \$2,000 per school year as additional cost to cover these items. This estimated range is entirely dependent upon individual needs.

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## SUMMARY OF UNDERGRADUATE FEES

	Fall Semester	Spring Semester	School Year
<b>FULL-TIME</b>			
<b>In-State Commuter</b>	\$3,240.50	\$3,240.50	\$6,481.00
<b>Out-of-State Commuter</b>	\$6,871.00	\$6,871.00	\$13,742.00
<b>In-State Boarder</b>			
Tub man/Laws**	\$7,933.50	\$7,393.50	\$15,867.00
Evers/Jenkins**	\$7,933.50	\$7,393.50	\$15,867.00
Conwell **	\$7,933.50	\$7,393.50	\$15,867.00
Warren Franklin**/Winder	\$8,158.50	\$8,158.50	\$16,137.00

**Out-of-State Boarder**

Tub man/Laws**	\$11,564.00	\$11,564.00	\$23,128.00
Evers/Jenkins**	\$11,564.00	\$11,564.00	\$23,128.00
Conwell **	\$11,564.00	\$11,564.00	\$23,128.00
Warren Franklin**/Winder	\$11,789.00	\$11,789.00	\$23,578.00

\*\*Boarder fees include the Traditional 19 Meal Plan; see list below for additional meal plan options.

**BOARDER MEAL PLAN OPTIONS**

(Students must select one option below or the Traditional 19 Meal Plan will be assigned.)

	<b>Fall Semester</b>	<b>Spring Semester</b>	<b>School Year</b>
Traditional 19 PLUS \$100 Flex Dollars	\$1,636.00	\$1,636.00	\$3,272.00
Traditional 15 PLUS \$100 Flex Dollars	\$1,581.00	\$1,581.00	\$3,162.00
Traditional 10 PLUS \$150 Flex Dollars	\$1,450.00	\$1,450.00	\$2,900.00

**PART-TIME** Less than 12 semester hours: charges per term

	<b>In-State Student</b>	<b>Out-of-State Student</b>
Per Credit Hour	\$238.00	\$540.00
Technology Fee	\$55.00	\$55.00
Registration Fee	\$50.00	\$50.00
Student Center Complex Fee	\$200.00 (Pro-rated based on total of credit hours)	\$200.00 (Pro-rated based on total credit hours)

(Students who reside in the dormitory and have less than twelve (12) credit hours per semester will be assessed a part-time boarder fee to adjust the student's account to reflect full-time charges.)

**NOTE: ALL FEES ARE SUBJECT TO CHANGE**

**UNIVERSITY VILLAGE APARTMENTS - 12 MONTH LEASE**

	<b><u>Per Month</u></b>	<b><u>Per Semester</u></b>	<b><u>Per Year</u></b>
One Bedroom/One Bath	\$932.00	\$5,592.00	\$11,184.00
Two Bedroom/Two Baths	\$765.00	\$4,590.00	\$9,180.00
Two Bedrooms/One Bath	\$690.00	\$4,140.00	\$8,280.00
Four Bedrooms/Two Baths	\$663.00	\$3,978.00	\$7,956.00
Two Bedrooms/One Bath	\$631.00	\$3,786.00	\$7,572.00

**UNIVERSITY VILLAGE APARTMENTS - 10 MONTH MEAL PLAN OPTIONS**

	<b><u>Per Semester</u></b>	<b><u>Per Year</u></b>
Traditional 19 PLUS \$100 Flex Dollars	\$1,636.00	\$3,272.00

Traditional 15 PLUS \$100 Flex Dollars	\$1,581.00	\$3,162.00
Traditional 10 PLUS \$150 Flex Dollars	\$1,450.00	\$2,900.00

### UNIVERSITY COURTYARD APARTMENTS - 12 MONTH LEASE

	<u>Per Month</u>	<u>Per Semester</u>	<u>Per Year</u>
Four Bedrooms/Two Baths	\$658.00	\$3,948.00	\$7,896.00
Two Bedrooms/Two Baths	\$765.00	\$4,590.00	\$9,180.00

#### Estimated Fees

Advance Room Deposit	\$200.00
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AMS Tuition Pay Plan Enrollment Fee	
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Fall & spring	\$55.00
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One Semester Only	\$35.00
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AMS Tuition Pay Plan Late Fee	\$30.00
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AMS Tuition Pay Plan Late Fee assessed by DSU	\$50.00
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Application Fee	\$25.00
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Course Overload Fee (over 19 credit hours)	
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Per credit hour In-state	\$238.00
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Per credit hour Out-of-state	\$540.00
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Drop Fee (per drop slip)	\$10.00
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Failure to Pre-register Fee	\$50.00
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Graduation Fee	\$175.00
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Late Registration Fee	\$50.00
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Overdue Library Fees (per day)	\$1.00
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Returned Check Fee	\$35.00
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Senior Citizen's Registration	
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Registration Fee	\$50.00
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Technology Fee	\$55.00
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Wellness Center Fee (pro-rated)	\$200.00
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SMARTCARD Replacement FEE	\$50.00
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Student Activity Fee (Full-Time)	\$135.00
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Student Center Complex Fee	\$200.00
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(pro-rated based on total credit hours)	
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Student Teaching Fee	\$150.00
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Technology Fee (per semester)	\$55.00
Traditional Dorm Fees (per semester)	
Conwell Hall	\$3,057.00
Tubman Hall/Laws Hall	\$3,057.00
Evers Hall/Jenkins Hall	\$3,057.00
Warren-Franklin Hall/Wydner Towers	\$3,282.00
Transcript Fee	\$10.00
Tuition (per semester)	
In-State	\$2,850.50
Out-of-State	\$6,481.00
University Courtyard Application Fee	\$100.00
University Courtyard Deposit	\$300.00
University Village Application Fee	\$100.00
University Village Deposit	\$300.00
Vehicle Registration Fee (per semester)	\$40.00
Vehicle Registration Fee (per year)	\$70.00
Vehicle Registration Fee (per summer)	\$30.00

### **Overload Fee**

For all course overloads, students will pay a fee equivalent to the cost-per-credit for each hour that exceeds nineteen (19) credits.

### **Drop Fee**

To drop a course, students may obtain approval from their Advisor or Department Chair and go online and adjust their schedule or obtain a DROP/ADD form from the Department Chair. The form is to be turned in to the academic department through the late registration period and to the Registrar's Office thereafter, bearing the required signatures. Students may drop courses as indicated on the Academic Calendar. **A drop fee of \$10.00 per course** will be assessed after late registration. Students who **DROP** courses which results in a credit on their student account will receive a refund in accordance with University and Federal Regulations/policies. **Students requesting to drop classes after the last day to drop or add courses must obtain the signature of the Academic Dean as well as their Instructor and Advisor/Chair.**

The change in registration is effective on the date the form is submitted to the Office of Records and Registration.

### **Payment of Fees**

All fees, tuition, and room and board charges must be paid **by July 10 for the fall semester, December 10 for spring semester, and upon enrollment for the summer semester(s).** Credits for scholarships, grants, and loans will only be considered when the awards have been approved by the Financial Aid Office in advance or at registration. Applications for financial aid should be completed at least four (4) months before registration each school year.



Payments may be made by Visa, MasterCard, Discover card, debit card (including MAC), certified/cashier's check, or money order payable to Delaware State University. Payments in cash must be made in person to the University Cashier's Office. **DO NOT SEND CASH IN THE MAIL.**

Certified/cashier's check or money orders should be made payable and mailed to:

**DELAWARE STATE UNIVERSITY**  
**ATTN: Cashier**  
**1200 North DuPont Highway**  
**Dover, DE 19901**

All payments sent by mail should include the student's name and student I.D. number. Checks drawn on out-of-state banks must be a cashier or certified check.

Correspondence or credit card payments should be mailed to:

**Delaware State University**  
**Attn: Cashier**  
**1200 N. DuPont Highway**  
**Dover, Delaware 19901**

Make online payments in real-time using NelNet *QuikPAY*

- Go to [www.desu.edu](http://www.desu.edu)
- Click in the —~~M~~ake a Payment" box.
- In the Login as Student section, enter Student ID and Pin.
- Click the link – Yes, continue to NelNet QuikPAY.
- Click on the Make Payment link on the left side of the page.
- Select the Term from the drop-down list, enter the Payment Amount, select the Payment Method, and click on the Continue button.
- Enter the requested information: credit card/bank information, billing address, and contact information, and click the Continue button.
- Follow the directions to complete the payment transaction.

All authorized third-party documentation such as Military Tuition Assistance, Vocational Rehabilitation, Veteran's Rehabilitation Assistance, Tuition Exchange, and other programs must be submitted and approved by the manager of the Office of Student Accounts.

Boarding students must satisfy all financial obligations before returning for the fall and/or spring semester. All students who have not satisfied all fee obligations before the end of the late registration period as listed in the school calendar will be assessed a late payment fee of \$50.00.

Students are officially registered for courses only when they have complied with all of the procedures applying to registration, including full payment of tuition and fees, or satisfactory financial arrangements through the Office of Student Accounts, and the validation of student I.D. cards.

### **Reinstatement Fee**

A fee that is charged to any student whose courses and/or room and board have been removed for non-payment for a specific semester. This fee must be paid before the student is allowed to register for the next semester (if not already pre-registered) or receive any University service.

**Student Government Association (SGA) Fee**

A fee is charged to all undergraduate students at the request of the Student Government Association. This fee is used in sponsoring various student activities, student publications, Radio Station WDSU, and other cultural programs. Students may also be admitted to designated athletic events as members of the Association.

**Student Center Complex (Wellness) Fee**

A fee is charged to all undergraduate students. This fee allows the student to have access to the new Wellness and Recreation Center on campus.

**Technology Fee**

A Technology fee is charged to all doctorate, graduate, and undergraduate students. This is for the support of campus computing labs and technological equipment.

**Student Health Insurance**

All full-time registered students taking twelve (12) or more credit hours are automatically enrolled in a health insurance plan that covers sickness and injury.

Students must actively attend classes for at least the first thirty-one (31) days for coverage to be in effect. Contact Student Health Services at (302) 857-6393 for additional information on available services.

**Laboratory Fees**

Laboratory fees are assessed for designated courses within the Departments listed below to cover the cost of supplies and special facilities. Labs may vary from \$10.00 to \$8,545.00. Departments assessing laboratory fees are: Agriculture and Natural Resources, Aviation, Art, Biology, Chemistry, Computer & Information Sciences, Education & Sport Sciences, Family and Consumer Sciences, Foreign Language, Mathematics, Music, Physical Education, Physics, Nursing, Accounting and Finance, Business Education, Hospitality Management, and Mass Communications. **Aviation Labs range from \$2,850 to \$8,545 per related course\***

Students are fully responsible for the use of laboratory equipment. Excessive breakage of equipment or items returned in an unacceptable condition will be charged to the student.

The University reserves the right to assess a special fee to cover the cost of using off-campus facilities when required in connection with any course offering.

*\*Additional fees will be paid to the Federal Aviation Association (FAA) Examiner for flight physicals, written examinations and all flight examinations.*

**Deferred Payment Plan**

Delaware State University now offers a new deferred payment plan through Academic Management Systems. This plan offers payment choices that will help you afford your education expenses over the semester or year in your choice of four (4) or five (5), or ten (10) or twelve (12) interest-free monthly payments. Your only cost for the interest-free monthly payment option is a \$55 enrollment fee for both fall and spring (or \$35 per semester). Education payment life insurance is included without additional charge.

Delaware State University understands that education expenses are easier to pay when spread over monthly payments. **Our Interest-Free Monthly Payment Option** is more affordable than one large semester payment and helps limit or eliminate borrowing.

The enrollment fee includes personal and professional service from Education Payment Counselors, toll-free, six (6) days a week, and automated account information twenty-four (24) hours a day, through web access.

An additional late charge of \$35 will be assessed by AMS after the 5-day grace period for failing to pay any monthly installment in full when due. Late and/or missed payments will result in the student being ineligible for further participation in the plan for the remainder of the academic year, a student accounts hold will be placed, and/or the student meal plan will be placed on hold.

All financial aid (excluding work study), approved bank loans, and credit balances from prior semesters should be credited to the student's account before calculating the deferred payment amount. Students on the deferred payment plan are required to have their first payment and enrollment fee on file for the Fall Semester due July 10, and Spring Semester due December 10 with Academic Management Systems.

Monthly payments can be made by check or money order. To save postage, check writing, and avoid late payments, you may have your monthly payments automatically deducted from your checking or savings account at no additional cost. Have your checking or savings account information available when enrolling in the Automatic Payment Option over the telephone, or mark the box on your enrollment form to receive Automatic Payment Option enrollment information.

To enroll by telephone, contact AMS:

1-888-829-3880 or 1-800-635-0120

Or

Enroll online at the [www.tuitionpay.com](http://www.tuitionpay.com) website.

(Late Fees May Apply.)

ACH and Credit Card Payments are accepted.

### **Delinquent Accounts**

Delaware State University will not issue a degree, transcript, or grade report to any student who has a delinquent account. A student with a delinquent account will not be readmitted to the University until all balances are paid.

Students who have not paid all financial obligations by November for the Fall semester and April for the Spring semester will have a hold placed on their account and will not be permitted to pre-register for classes for the next term.

Past due accounts will be referred to the State Division of Revenue, the University's collection agencies, or attorneys, and will be reported to the credit bureau.

Each account will be charged an additional amount that approximates the administrative costs incurred in collecting the past due amount, any attorney fees, and all collection costs.

### **Billing**

The University will send electronic monthly statements to student's Delaware State University issued email address that have an outstanding balance or have activity on their accounts. The electronic

statement will show the balance from the prior month, detail activity of the current month, and the ending balance. These electronic statements are emailed on the third Friday of each month to the student's Delaware State University issued email address. Although the University regularly emails bills to students, it cannot assume responsibility for their receipt. Students are reminded that it is their responsibility to review their student account and email account for billing and its accuracy.

If a bill is not received on or before the beginning of each semester, it is the student's responsibility to obtain a copy of the bill from the myDESU or NelNet QuikPay website by **logging into [www.desu.edu](http://www.desu.edu)**.

The first bill mailed prior to the beginning of the semester may not include deductions of grants, scholarships, or loans.

Payments and financial aid awards applied to accounts will be listed in the credit column. Payments and financial aid awards in the anticipated credits column have not been physically applied to the accounts, but will reduce the outstanding balance. Questions pertaining to bills should be directed to the Office of Student Accounts at (302) 857-6240.

Questions pertaining to financial aid credits or adjustments on monthly statements should be directed to the Financial Aid Office at (302) 857-6250.

### **Cashier Services**

The Cashier's Office is located in the Administration Building, first floor. The hours of operation are 9:00 a.m. to 4:00 p.m. Monday through Friday.

Students may make payments on their accounts at the Cashier's Office. The following services are available to students currently enrolled at Delaware State University:

1. Payment can be made on a student account by check, money order, cash, credit card (Visa, MasterCard, and Discover), and debit card (including MAC).
2. All student paychecks can be obtained from the Cashier's Office between the hours of 10:00 a.m. and 4:00 p.m. on payday.
3. Credit/debit card payments can be made via telephone:  
(302) 857-6220 from 9:00 a.m. to 4:00 p.m.  
Or  
(302) 857-6200 from 4:00 p.m. to 4:30 p.m.
4. All payments, except cash, can be made online at [www.desu.edu](http://www.desu.edu) through *QuikPAY*.

The University recommends that students use one of the local banks for their banking needs. An automatic teller machine is located on the campus in the Administration Building and in the William C. Jason Building. Please note: Any check made payable to Delaware State University and the student must be applied to the student's account. Any amount that exceeds what the student owes may be refunded to the student.

### **Advance Room Deposits**

All students must pay an Advance Room Deposit as designated, and submit a Residence Hall Application and Contract to reside in the residential facilities

As designated:

Traditional Halls	\$200.00
University Village and Courtyard Apartments	\$300.00
University Village and Courtyard Apartments Application Fee	\$100.00

Returning students must pay the Advance Room Deposit at the time that they pre-register for the Fall Semester no later than May 1. Failure to submit the Residential Contract and pay the Advance Room Deposit by the deadline will result in the student being placed on a waiting list and receive rooms upon availability.

Students with a room assignment who do not plan to reside on campus, must cancel the space by August 1 for the Fall Semester and December 1 for the spring semester. Failure to cancel the reserved space may result in reservation charges being assessed for the room if the University is unable to fill the vacancy.

Students are urged to read the housing contract and/or Lease for Terms and Conditions of Occupancy.

The Advance Room Deposit is a **NON-REFUNDABLE FEE**, with the exception of when the University is unable to provide a room. The Advance Room Deposit will be credited **to the student's account thirty (30) days** after the end of late registration. **This fee is non-refundable if the student decides not to attend the University.** An additional residence hall damage fee may be assessed at the end of each term.

The University cannot guarantee availability of campus housing and it is recommended that you submit the application for housing early.

### **Contractual Obligation to Room and Board**

A student's assigned housing in the traditional residence hall setting will be required to participate in a meal plan offered by the University. In order to provide boarding service for all students at the lowest possible cost, certain rules of conduct must be followed and will be strictly enforced. Those who wish to live at Delaware State University must have their bills paid in full by July 10 for the Fall semester and December 10 for the Spring semester or must have made satisfactory financial arrangements with the Office of Student Accounts (By enrolling in AMS Tuitions Pay Plan.).

Students who do not submit payments by the due date must obtain clearance by reporting to the Office of Student Accounts in order to receive a room key. Identification cards are validated for room and board after all financial obligations have been satisfied. Students must show their validated identification card to be admitted to the dining room for all meals. Should any student be found guilty of breaking any rules in the Student Handbook, their privilege to room and board on campus will be terminated by the action of the Vice President for Student Affairs and charges paid in advance will be refunded in accordance with University policy for withdrawals. No credit is given for meals which a student fails to take while in a boarding status.

No adjustments in the charge for room and board will be made for late registration of ten (10) days or less, or for absences of less than fourteen (14) days. **Students must be enrolled at least full-time (12 or more credit hours) per semester in order to live in the residence halls.** Dropped courses or failure to attend class (no show), which reduces credit hours to less than full-time may result in cancellation of the housing contract. The Office of Business and Finance will notify all students who are classified as part-time in the Residence Halls. Students will be required to make necessary schedule adjustments and accounts will be adjusted to reflect full-time charges.

Commuter meal plans are available for non-resident students who wish to eat meals in the dining hall or canteen. Commuter students may sign up in the Office of Student Accounts during the first two (2) weeks of classes. Commuter meal plans are available at current costs. Please contact the Office of Student Accounts for an updated commuter fee schedule. Fees are subject to change.

### **Refunds of Credit Balances**

Refunds for overpayments or credit balances as a result of dropping a course will be processed thirty (30) days after the end of late registration, or within fourteen (14) days during the semester. Refunds cannot be issued from credit card payments. Credit balances will be transferred back to credit card. All charges and payments must be stated on the account before a refund will be processed. After the refund is processed, students are liable for any additional charges that may result from reductions in financial aid awards and/or other adjustments to tuition and fees.

Students who drop courses must obtain a Drop Slip and return the completed form to the Office of Records and Registration. The effective date of the change in registration is the date the drop slip(s) is filed in the Office of Records and Registration.

Students who officially change their enrollment from full-time to part-time (less than 12 hours) by dropping a course or courses will be eligible for a refund in accordance with the following policy:

#### **Period from the First Day of Fall/Spring Semester**

<b>Period from the First Day of Fall/Spring Semester</b>	<b>Refundable Tuition</b>	<b>Refundable Fees</b>
Prior to 1st day of classes	100%	100%
Two weeks or less	80%	0%
After two weeks	No Refund	No Refund

#### **Period from the First Day of Summer Session(s)**

<b>Period from the First Day of Summer Session(s)</b>	<b>Refundable Tuition</b>	<b>Refundable Fees</b>
Prior to 1st day of classes	100%	100%
Two days or less	80%	0%
After two days	No Refund	No Refund

### **Withdrawal Refunds**

Students should secure a Withdrawal form from the Office of Counseling located in Room 123 of the Education and Humanities Building. Recipients of Title IV funds must complete an exit interview.

Please log on to [www.desu.edu](http://www.desu.edu), select myDESU, and click on “Exit Interview”. The student mailbox key and Smart Card (I.D.) must be returned to the Office of Student Accounts. Students who do not adhere to the withdrawal process will forfeit their right to a refund. Stop payment on a check, failure to pay the semester bill, or failure to attend classes does not constitute official withdrawal from the University.

Students withdrawing from the University will be credited for tuition only, if applicable. Other fees, with the exception of application fees and advance deposit, are to be credited in accordance with the following schedule:

**Period from the First Day of Fall/Spring Semester**

Period from the First Day of Fall/Spring Semester	Refundable Tuition	Refundable Fees
Prior to 1st day of classes	100%	100%
*Two weeks or less	80%	0%
After two weeks	No Refund	No Refund

**Period from the First Day of Summer Session(s)**

Period from the First Day of Summer Session(s)	Refundable Tuition	Refundable Fees
Prior to 1st day of classes	100%	100%
*Two days or less	80%	0%
After two days	No Refund	No Refund

\*Student accident and health insurance will be canceled retroactively and any claim filed will not be honored.

Room and Boarding charges are refunded on a prorated weekly basis, when student withdraws from the University or from residence halls after classes begin.

**Title IV Recipients**

The 1998 Reauthorization of the Higher Education Act requires Delaware State University to calculate the Return of Title IV Funds on all Federal Financial Aid recipients who withdraw (OFFICIALLY OR UNOFFICIALLY) from classes on or before the sixty (60) percent attendance point in the semester.

The federal formula requires a return of Title IV Aid, if the student received Federal Financial Assistance in the form of a Pell Grant, Supplemental Educational Opportunity Grant (SEOG), Federal Plus Loan, Perkins Loan, Federal Subsidized Stafford Loan, or a Federal Unsubsidized Stafford Loan, if a student withdraws on or before completing sixty (60) percent of the semester. The percentage of Title IV Aid to be returned is equal to the number of calendar days remaining in the semester divided by the number of calendar days in the semester. Scheduled breaks of more than five (5) consecutive days are excluded.

If funds are to be returned after completing the return of Title IV Aid calculation, Delaware State University is required to return its portion of unearned Title IV Aid to the appropriate Federal Programs within thirty (30) days from the date the student withdraws from classes. A hold will be placed on the account and all University services will be withheld if the account reflects a balance. Delaware State University will not return any funds required by the student.

**STUDENTS WHO STOP ATTENDING CLASSES WITHOUT OFFICIALLY WITHDRAWING WILL BE SUBJECT TO THE RETURN OF TITLE IV FUNDS AT THE END OF THE SEMESTER, BASED ON WITHDRAWAL DATES/LAST DOCUMENTED DATE OF ATTENDANCE AS DETERMINED BY DELAWARE STATE UNIVERSITY.**

**Removal for Non-Payment**

Student's housing/meal assignments and registrations will be removed due to non-payment in accordance with the published date in the Academic Calendar and Course Schedule Guide. Once removed for non-payment, a hold will be placed on your student account to prevent you from registering and you will be required to pay a —Reinstatement Fee” of \$150.00 for each semester in which the registration

housing/meal assignments are removed. Failure to pay the reinstatement fee will prevent you from receiving all University services.



## FINANCIAL AID AND SCHOLARSHIPS

Delaware State University applicants for financial aid must complete the Free Application for Federal Student Aid (FAFSA). The FAFSA is used to determine the need for financial assistance. The FAFSA is filed online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

Financial assistance at the University is made available through scholarships, grants, loans, and part-time employment opportunities. The Federal Financial Aid that is offered will never cover the total tuition, fees, room and board for most students. Federal Aid is designed to supplement family resources. Students who are enrolled in a degree-seeking program may be eligible for special scholarships, grants, and loans if they meet the criteria specified for qualification. All funds are administered through the Office of Financial Aid. Families are encouraged to research the best combination of resources to meet their financial obligations. Parents may need to research Parent (PLUS) Federal Direct Loans or students may need to research alternative financing.

In order to meet the student's financial needs, the University may offer an award package, which may include scholarship(s), grant(s), loan(s), and employment, in various combinations.

Students receiving financial aid must meet the requirements established by the Department of Education and must meet Satisfactory Academic Progress (SAP) determined by Delaware State University.

### ***SAP GPA CRITERIA***

#### Grade Point Average Requirement

Undergraduate students must meet the minimum cumulative DSU grade point average (excludes transfer work) (see below chart of required hours and GPA). **Please note, any student who has been enrolled for four semesters, whether the enrollment is consecutive or not, must obtain a 2.0 cumulative GPA at the end of the fourth semester.** All grades except "W" grades are counted in the cumulative GPA calculation except a repeat course. In the repeated course, only the higher grade will be factored into the cumulative GPA. Please note that Title IV aid restricts recipients from receiving funds for the same course more than twice.

### **GPA Chart**

<b><u>Hours Attempted</u></b>	<b><u>Cumulative Grade Point Average</u></b>
1-29	1.70, but 2.0 after 4 semesters
30-59	1.80, but 2.0 after 4 semesters
60-89	2.00
90-120	2.00

Delaware State University's SAP calculation will include all hours attempted.

Undergraduate students must strive to complete all of their attempted starting credit hours each academic year. Students are required to earn 24 credits each academic year for full-time status, 12 credits for half-time status and 6 for less than half-time status.

Graduate students must meet the minimum cumulative DSU grade point average (excludes transfer work) requirement of 3.00 by the end of their second full semester. **In addition, all graduate students must earn 67% of their hours attempted, and must not exceed 150% of the hours required for degree completion.** There is a one-time only appeal procedure for the graduate student. A formal written letter of explanation must be written to the Office of Academic Enrichment no later than the drop for non-payment date for the semester in which the student is applying for Federal Financial Aid. Graduate students must attain a 3.0 at the end of that semester to remain eligible to receive Federal Financial Aid preceding the appeal.

The following types of grades **cannot** be used to fulfill financial aid probation, suspension, or re-matriculation requirements: credits by audit or special examination, grades earned from advanced placement or CLEP exams for which prior approval was not obtained; withdrawal or incomplete grades; and grades earned with zero credit.

### ***SAP Hours Completion Criteria***

Students must progress toward their education goal by earning credits at Delaware State University at the minimum rate. Courses in which students receive an "F", "W" or "FW" grade do not count as earned hours but will count in the attempted hours as well as repeated courses. Only courses in which students receive grades of "A," "B," "C," or "D" count as earned hours. Audit course work does not count. Prior to receiving a disbursement of financial aid for the semester numbered in the first column of the chart, the student's cumulative credits earned at Delaware State University must total at least the number listed in the column marked Full Time which describes the enrollment status for the semester prior to the current semester. For example, if a student is entering in the fall semester after completing one academic year prior and was enrolled full time for that prior semester, then the student is entering his or her 3<sup>rd</sup> semester. The chart below details the number of credits required to have complete after the semester listed in column one. If you are not meeting the minimum required, you are not meeting the Satisfactory Academic Progress progression requirements and would be required to submit an appeal with an explanation of why you are not meeting the progression requirements and what you will do in the next semester to meet the requirements.

## Progress Chart

<u>NUMBER OF COMPLETED SEMESTERS</u>	<u>MINIMUM NUMBER OF CREDIT HOURS THAT MUST BE EARNED</u>	<u>PERCENTAGE COMPLETION RATE PER SEMESTER</u>	<u>ATTEMPTED NUMBER OF CREDIT HOURS PER SEMESTER</u>
1 –Year 1	9	60%	15
2	18	60%	30
3 –Year 2	27	60%	45
4	36	60%	60
5 –Year 3	53	70%	75
6	63	70%	90
7-Year 4	74	70%	105
8	84	70%	120
9-Year 5	95	70%	135
10	105	70%	150
11- Year 6	116	70%	165
12	126	70%	180

### *SAP Maximum Hours Limitation Criteria*

Students may only receive aid until they reach the maximum hours limit. The limit is 150% of the hours required for the program of study. For example, if the typical bachelor's degree requires 125 credit hours, the limit for maximum attempted hours would be 187.5. Hours accepted by DSU in transfer are included in the maximum hour limit. Required hours for a specific program of study are found in the Undergraduate or Graduate Catalogs. Students who have completed all the course work for their degree or certificate but have not yet received the degree or certificate are no longer eligible for financial aid for that program. Students with dual majors or students who change their majors are subject to the same hours limit; there are no exceptions.

## Participating Programs

### **Federal College Work Study Program (FWS)**

A work-study job can be a source of valuable work experience as well as financial aid. Under the work-study program, the employer pays a small part of the student's wages, and the government pays the rest. Work-study positions are on campus. Students can work part-time while they are in school, and they can work up to 35 hours a week during the summer and other vacation periods. However, the student must be enrolled at least half time to participate in any work study program. The basic pay rate is usually the current minimum wage. This may vary, depending on the skill and experience needed for the job.

### **William D Ford Federal Direct Loan Program (Direct Loan)**

Considered one (1) form of self-help aid; under the Direct Loan Program students are able to borrow from the government directly. Students may apply by completing the Free Application for Federal Student Aid (FAFSA) and ensuring that the results of the application (Student Aid Report) are submitted to the Office

of Financial Aid. The student's financial aid award may contain a Direct Loan that is either subsidized or unsubsidized. A subsidized loan is awarded on the basis of financial need. The federal government pays the interest on the loan until the borrower begins repayment and/or during authorized periods of deferment.

A student can borrow an unsubsidized loan, if the student does not have financial need. Interest will be charged from the time the loan is disbursed until it is paid in full. If the interest is allowed to accumulate, the interest will capitalize - that is, the interest will be added to the principal amount of the loan, which will increase the amount of the borrower's outstanding balance.

A dependent undergraduate student with freshman status (0-29 earned credit hours), enrolled in an approved program of study for at least a full academic year, may borrow up to \$3,500 per year in subsidized eligibility or unsubsidized eligibility. The subsidized eligibility is based upon the need calculation using the family contribution and the cost of attendance. The student may borrow \$4,500 per year with sophomore status (30-59 earned credit hours) and enrolled for a full academic year. Students with junior and senior status (60-120 earned credit hours) may borrow up to \$5,500. Dependent students may borrow an additional \$2,000 unsubsidized for all classifications.

An independent undergraduate student or dependent student whose parents are unable to get a PLUS loan can borrow an additional \$4,000 as a freshman or sophomore and \$5,000 as a Junior or Senior. These loans are considered unsubsidized loans as described above.

PLUS Loans are available to the parents of dependent students. The parent may borrow up to the remaining cost of attendance.

To apply for a Federal Direct loan, students should submit a Free Application for Federal Student Aid (FAFSA) to U.S. Department of Education at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) at least 4-6 weeks prior to March 15 for the Fall Semester and 4-6 weeks prior to October 1 for the Spring Semester. Once the response from the FAFSA is reviewed by both the student and the University and all required documents have been received and reviewed, the student completes the Entrance Counseling and the Master Promissory Note for the William D. Ford Federal Direct Loan at [www.studentloans.gov](http://www.studentloans.gov).

Federal guidelines stipulate that the University must determine that the student has maintained eligibility for the loan before each disbursement of loan proceeds. Reaffirmation of loan eligibility includes establishing that the student has maintained satisfactory academic progress; has at least half-time enrollment status and progressed to next classification level for increased annual borrowing amounts. Students who do not progress to the next classification level must borrow at the prior year level. For example, a student with 0-29 earned credit hours is classified as a freshman. A freshman may borrow \$3,500 per year, but may not borrow at the next level (\$4,500 per year) until he/she obtains sophomore status (completion of 30 earned credit hours).

### **Federal Pell Grant Program**

The largest federal student aid program is the Pell Grant Program. Its purpose is to make sure that all eligible students have at least some of the money needed to continue their education after high school. The amount of each Pell Grant received depends on financial need, education cost, number of hours enrolled, and the actual amount of time the student will be enrolled during the school year. In 2010-2011, the amount of Pell Grant will range between \$555 and \$5,550 for full time enrollment. A Pell Grant is often combined with some other kind of aid.

**Federal Supplemental Educational Opportunity Grant Program (FSEOG)**

Supplemental Educational Opportunity Grants are provided to a limited number of undergraduate students with financial need. The FSEOG grant offered by Delaware State University ranges from \$200 to \$750 a year.

**State, University Scholarships and Loans****Athletic Grants (up to full expenses)**

Recipient must participate in varsity football, basketball, baseball, softball, or track, and be selected by a coach. Apply to the coach of a particular sport.

**Robert C. Byrd Honors**

Available to High School seniors who rank in the upper quarter of their class or GED recipients with minimum score of 300, have a combined score of 1,800 on the SAT and who plan to enroll full-time at an accredited college. There will be approximately twenty (20) annual awards made by the DHEC at \$1,500 each. These scholarships are renewable. Eligible students are identified by the High School Guidance Counselors. All applications are due by March 28.

**Chemistry Scholarship**

Apply to the Department of Chemistry.

**Connecticut Scholastic Achievement Grant**

Residents of Connecticut should contact the Connecticut Board of Education, 61 Woodland Street, Hartford, CT 06105.

**D.C. State Student Incentive Grant Program (D.C.SSIG.)**

Residents of the District of Columbia are expected to apply for this program. It is equally funded by both the Federal and District Governments for assisting eligible students with substantial financial need, thus enabling them to attend or continue to attend post high school educational institutions. Applicants should contact the D.C. Office of Educational Assistance, 1331 H Street, NW Washington, D.C. 20005.

**Delaware Nursing Incentive Scholarship Loan**

Students who meet the academic requirements and enroll in a program to prepare them for certification as a Registered or Practical Nurse can apply. Award maximums are not to exceed the cost of tuition, fees, and direct educational expenses. These awards are renewable with repayment provisions or service at a Delaware State owned hospital. Applications are available from DHEC or your High School Guidance Counselor, and are due to the DHEC by March 28.

**Departmental Scholars (18/\$500)**

Recipient must have a Junior status with at least one (1) full year of study at Delaware State University; a 3.25 minimum cumulative grade point average; possess scholarly qualities of excellence in a major field; intend to continue study beyond college; and perform an approved special supervised project in a major field. Apply through major Departmental Chair in spring of the year prior to the award period.

**Educational Benefits for Children of Deceased Veterans and Others**

Children of deceased military veterans or State Police Officers who were Delaware residents and whose cause of death was service-related are eligible for full tuition, or \$525, whichever is greater for a four-year maximum. Applications are available from DHEC and due back to the commission four (4) weeks before classes begin.

**Diamond State Scholarship**

The Diamond State Scholarship is available to high school seniors who rank in the upper quarter of their class, have a combined score of 1,800 on the SAT, and enroll full-time at an accredited college. Approximately fifty (50) \$1,250 awards are made each year and they are renewable. Applicants are identified by High School Guidance Counselors and the application is due by March 28.

**Financial Aid for Delaware Residents**

Student financial aid programs for Delaware residents offered by the State of Delaware to assist students who are legal residents of the State are as follows: Delaware Incentive Grant is a grant for state residents enrolled full-time in a degree program at a Delaware college or university, and under certain conditions, in other states. Variable awards will not exceed tuition, fees, and books, and will range from \$700 to \$2,200. Students must file the Free Application for Federal Student Aid before March 15.

**Governor's Workforce Development Grant**

Available to residents who meet the financial eligibility requirements, are enrolled part-time at a participating college or university and employed by a small business. Students will not receive more than \$2,000 per year. Applications can be obtained from the Delaware Higher Education Commission (DHEC) or Delaware State University, and are due by the end of the drop/add period each semester.

**Herman M. Holloway, Sr. Memorial Scholarship**

Available to high school seniors who have at least a 3.00 cumulative GPA, have a 1,350 composite score on the SAT, and enroll full-time at Delaware State University. The award is equivalent to full tuition fees, and room and board at Delaware State University. Eligible students are identified by the High School Guidance Counselor. Applications are due March 14.

**Thurgood Marshall Scholarship Fund**

Awards merit scholarships to students attending Historically Black Public Colleges and Universities. Awards are restricted to payment of tuition, room, board, books, and fees. Awardees must meet certain criteria established by the Academic Advisory Board of the Thurgood Marshall Scholarship Fund. The applicant must be: 1) a citizen of the United States of America; 2) full-time student for the duration of the scholarship; 3) pursuing a bachelor's degree in any discipline; 4) have a high school grade-point average of not less than 3.0; 5) demonstrated commitment to academic excellence and community service; and 6) maintain not less than 3.0 GPA each year for the duration of the scholarship. Contact a Scholarship Counselor in the Financial Aid Office.

**Maryland State Scholarship**

Residents of Maryland should contact the Maryland State Scholarship Board, 2100 Guilford Avenue, Baltimore, Maryland 21218.

**Massachusetts State Scholarship**

Residents of the Commonwealth of Massachusetts are expected to apply for a State scholarship through The Board of Higher Education, 31 St. James Avenue, Boston, MA 02116.

**Christa McAuliffe Teacher Scholarship Loan**

Available to students who meet academic requirements and enroll in a program at a Delaware college or university leading to teacher qualification may apply. Awards are renewable with teaching service or cash repayment provisions. Applications are available from DHEC, High School Guidance Counselor, or Delaware State University, and are due to DHEC by March 28

**Music Scholarships (amount varies for four years)**

The student must participate in the University Band, Choir, or other approved musical organization under the supervision of the Music Department.

**Ohio Instructional Grant Program**

This financial aid program is designed to assist eligible students who are enrolled for full-time undergraduate study in participating institutions of higher education. The grants are not awarded on the basis of academic achievement as such, but on the basis of relative financial need. Applicants should contact the Ohio Board of Regents, Student Assistance Office, 3600 State Office Tower, 30 East Broad Street, Columbus, OH 43215.

**Pennsylvania Higher Education Assistance Agency (PHEAA) Guaranteed Student Loans**

This loan program, a cooperative effort of private lending institutions and the state and federal governments, enables qualified students to secure long-term educational loans under attractive conditions, including a low interest rate and a liberal repayment period. Applications are available from PHEAA and participating lending institutions (commercial banks, credit unions, and savings and loan associations, etc.).

There is no application deadline for this program. However, applications should be filed three (3) months (90 days) in advance of the need for funds. Note: Most states have similar arrangements for their own residents.

**State Scholarships (amount varies for four years)**

The student must be a Delaware resident and meet the following requirements:

1. A candidate must have no less than a 3.0 average as computed on a 4.0 scale, no less than 85% when based on 100%, or no less than a –B– when letter grades are used. Averages computed by the high school and confirmed by the Admissions Office are accepted.
2. A candidate must rank within the top 25% of his/her class based on academic courses in the areas of English, mathematics, science, and social studies.
3. A candidate with a business background may be considered if he or she has taken college English and has a –B– or better average in at least three (3) business courses.
4. A candidate must submit scores made on national examinations such as SAT, CEEB, or ACT.

**Private Scholarships**

The application for the Private Scholarships is on the website available from January 2 to March 15 every year. For a complete list of all available scholarships offered through Delaware State University, please visit [www.desu.edu](http://www.desu.edu).

All scholarship applicants must have a minimum GPA of 3.0, complete the scholarship application by publicized priority date, and complete the Free Application for Federal Student Aid. All students receiving institutional funding are prohibited from residing in the University Village or the University Courtyard Apartments.

**Procedures for Applying for Financial Aid**

Candidates for admission to the University who wish to apply for financial aid should complete the Free Application for Federal Student Aid (FAFSA) by the priority deadline date of March 15. Your FAFSA must be filed online at [www.fasfa.ed.gov](http://www.fasfa.ed.gov) to ensure the results are received before the priority deadline date.

**Applications received later than the deadline indicated are considered applications for the next semester.**

Financial Aid applicants should note that the FAFSA should be completed according to the instructions in January prior to the academic year the student expects to receive financial aid. Financial aid award announcements will begin in March.

FAFSA's are transmitted electronically from the Department of Education. To ensure that we receive your application from the Department of Education use our School Code 001428 in the section requesting the school's address and Title IV School Code.

### **Scholarships**

Information on scholarships may be obtained through the Delaware State University website, or if majoring in a specific field, from the Dean of the College.



# **COLLEGE OF AGRICULTURE AND RELATED SCIENCES**

**Dean:** Dr. Dyremple Marsh

The College of Agriculture and Related Sciences was established July 1, 2000. The College's Mission is to promote the Mission of Delaware State University, with emphasis on the tripartite land-grant mission of academics, research, and extension. Emphasis is given to faculty preparation, scholarly presentation, and student preparation for graduate and professional school as well as related careers. Contribution to the home, family life, consumers, and business is a major endeavor.

## **DEPARTMENT OF AGRICULTURE & NATURAL RESOURCES**

**Chair:** Dr. Richard Barczewski

**Professors:** Marsh, Tucker,

**Associate Professor:** Barczewski, Broderick, Fox, Guo, Kalavacharla, McIntosh, Ozbay, Vulinec

**Assistant Professors:** Elavarthi, Heckscher, Jackson-O'Brien, McCrea

The Department of Agriculture and Natural Resources offers educational programs designed to prepare students for entry level positions within the agricultural and natural resource areas. Students are provided course work designed to develop working production and management skills. The agriculture curriculum offers career options in Agri-Business, Equine Business Management, General Agriculture, Plant Sciences (Agronomy/Horticulture), Animal and Poultry Science, and Pre-veterinary Science. The natural resources curriculum offers career options in Environmental Sciences and Fisheries and Wildlife Management. In addition, students may elect options in both agriculture and natural resources, which will prepare them for graduate study.

A given course may not be offered in the semester indicated in the curricula. Many courses in the department are offered in alternate years, some may be offered every third year. It is the students' responsibility to take classes when they are offered. Failure to do so could result in spending an additional semester or year at the University.

Electives and courses taken out of sequence may require prerequisites.

**B.S. DEGREE IN AGRICULTURE –GENERAL AGRICULTURE**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MVSC-100	Fitness and Wellness	2	BIOL-102	General Biology II & Lab	4
BIOL-101	General Biology I & Lab	4	MTSC-122	Trigonometry	3
MTSC-121	College Algebra	3	AGRI-192	University Seminar II	1
AGRI-191	University Seminar I	1	AGRI-102	Ag & NR Science	1
HIST-***	History Elective	3	**_***	Elective	3
	Total Credits	16		Total Credits	15
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-***	Literature Elective	3	**_***	Elective	3
BIOL-205	Ecology	4	ENGL-200	Speech	3
CHEM-101	General Chemistry I & Lab	4	AGRI-207	Intro to Animal Nutrition	3
AGRI-206	Intro to Animal Science	3	AGRI-208	Soil Science	3
ECON-201	Macroeconomics	3	SOCJ-101	Sociology	3
	Total Credits	17		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
**_***	Arts/Humanities Elective	3	**_***	Arts/Humanities Elective	3
AGRI-305	Intro to Poultry Science	3	GLOB-395	Global Societies	3
AGRI-317	Fund. Of Crop Production	3	**_***	Electives	9
AGRI-465	Weed Science	3			
NTRS-321	Biometrics	3			
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
** AGRI-***	Animal Science Elective	3	AGRI-304	Marketing Ag Products	3

AGRI-309	Farm Management *	3	AGRI-404	Sustainable Ag **	3
SCCJ-102	Principles of Sociology	3	**_***	Electives	6
**_***	Electives	6			
	Total Credits	15		Total Credits	12

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

Total Credits: 120
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**B.S. DEGREE IN AGRICULTURE – AGRI-BUSINESS**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MVSC-100	Fitness and Wellness	2	BIOL-102	General Biology II & Lab	4
BIOL-101	General Biology I & Lab	4	MTSC-122	Trigonometry	3
MTSC-121	College Algebra	3	AGRI-192	University Seminar II	1
AGRI-191	University Seminar I	1	AGRI-102	Ag & NR Science	1
HIST-***	History Elective	3	MGMT-205	Management Processes	4
	Total Credits	16		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-***	Literature Elective	3	**_***	Elective	3
BIOL-205	Ecology	4	CHEM-102	General Chemistry II & Lab	4
CHEM-101	General Chemistry I & Lab	4	AGRI-207	Intro to Animal Nutrition	3
AGRI-206	Intro to Animal Science	3	AGRI-208	Soil Science	3
ACCT-201	Accounting I	3	ACCT-203	Acct. for Decision Makers	3
	Total Credits	17		Total Credits	16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
**_***	Arts/Humanities Elective	3	**_***	Arts/Humanities Elective	3
AGRI-305	Intro to Poultry Science	3	ENGL-200	Speech	3
AGRI -317	Fund. of Crop Science	3	AGRI -***	Animal Science Elective	3
AGRI -465	Weed Science	3	ECON -202	Microeconomics	3
NTRS-321	Biometrics	3	46 MKT-300	Marketing	3
ECON -201	Macroeconomics	3			
	Total Credits	18		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr

**_***	Elective	3	AGRI - 304	Marketing Ag Products	3
AGRI - 309	Farm Management *	3	AGRI - 404	Sustainable Ag **	3
GLOB- 395	Global Societies	3	ECON -414	Money and Banking	3
ACCT- 302	Legal Environment of Business	3	MKT- 303	Selling and Sales Management	3
	Total Credits	12		Total Credits	12

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

Total Credits: 122
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**B.S. DEGREE IN AGRICULTURE – PLANT SCIENCE AGRONOMY**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MVSC-100	Fitness and Wellness	2	BIOL-102	General Biology II & Lab	4
BIOL-101	General Biology I & Lab	4	MTSC-122	Trigonometry	3
MTSC-121	College Algebra	3	AGRI-192	University Seminar II	1
AGRI-191	University Seminar I	1	AGRI-102	Ag & NR Science	1
HIST-***	History Elective	3	**_***	Elective	3
	Total Credits	16		Total Credits	15
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-***	Literature Elective	3	**_***	Elective	3
BIOL-205	Ecology	4	ENGL -200	Speech	3
CHEM-101	General Chemistry I & Lab	4	CHEM -102	General Chemistry II & Lab	4
AGRI-206	Intro to Animal Science	3	AGRI -208	Soil Science	3
**_***	Elective	3	GEOG-101	Human Geography	3
	Total Credits	17		Total Credits	16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
AGRI -205	Plant Physiology	3	BIOL-210	Genetics	4
AGRI -317	Fund of Crop Production	3	AGRI -463	Forage Crop Prod. & Mgt.	3
AGRI -465	Weed Science	3	GLOB-395	Global Societies	3
NTRS-321	Biometrics	3	**_***	Elective	3
**_***	Arts/Humanities Elective	3	**_***	Arts/Humanities Elective	3
	Total Credits	15		Total Credits	16
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
AGRI -308	Plant Pathology	3	AGRI -404	Sustainable Ag **	3
AGRI -	Farm Management*	3	ECON-	Macroeconomics	3

309			201		
NTRS-- 202	Microclimatology	3	**_***	Elective	3
NTRS- 401	Soil and Water Management	3	**_***	Elective	3
**_***	Elective	3			
	Total Credits	15		Total Credits	12

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 122
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**B.S. DEGREE IN AGRICULTURE – PLANT SCIENCE HORTICULTURE**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MVSC-100	Fitness and Wellness	2	BIOL-102	General Biology II & Lab	4
BIOL-101	General Biology I & Lab	4	MTSC-122	Trigonometry	3
MTSC-121	College Algebra	3	AGRI-192	University Seminar II	1
AGRI-191	University Seminar I	1	AGRI-102	Ag & NR Science	1
HIST-***	History Elective	3	**_***	Elective	3
	Total Credits	16		Total Credits	15
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-***	Literature Elective	3	**_***	Elective	3
BIOL-205	Ecology	4	ENGL -200	Speech	3
CHEM-101	General Chemistry I & Lab	4	CHEM -102	General Chemistry II & Lab	4
AGRI-210	Landscaping	3	AGRI -208	Soil Science	3
AGRI-219	Horticulture	3	**_***	Arts/Humanities Elective	3
	Total Credits	17		Total Credits	16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
AGRI -205	General Botany	3	BIOL -210	Genetics	4
AGRI -205	Plant Physiology	3	AGRI -419	Plant Prop. & Greenhouse mgt.	3
AGRI -308	Plant Pathology	3	GLOB-395	Global Societies	3
AGRI -465	Weed Science	3	AGRI -213	Systematic Botany	3
NTRS -321	Biometrics	3	**_***	Arts/Humanities Elective	3
	Total Credits	15		Total Credits	16
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
AGRI -319	Horticultural Plant Materials	3	AGRI -404	Sustainable Ag **	3

NTRS-202	Microclimatology	3	NTRS-408	Plant Cell and Tissue Culture	3
**_***	Approved Elective*	3	ECON-201	Macroeconomics	3
**_***	Elective	3	**_***	Elective	3
			**_***	Elective	3
	Total Credits	12		Total Credits	15

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 122

**B.S. DEGREE IN AGRICULTURE – PRE-VETERINARY MEDICINE**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MVSC-100	Fitness and Wellness	2	BIOL-102	General Biology II & Lab	4
BIOL-101	General Biology I & Lab	4	MTSC-122	Trigonometry	3
MTSC-121	College Algebra	3	AGRI-192	University Seminar II	1
AGRI-191	University Seminar I	1	AGRI-102	Ag & NR Science	1
HIST-***	History Elective	3	**_***	Elective	3
	Total Credits	16		Total Credits	15
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-***	Literature Elective	3	**_***	Elective	3
CHEM-101	General Chemistry I & Lab	4	ENGL -200	Speech	3
MTSC-251	Calculus I	4	CHEM -102	General Chemistry II & Lab	4
AGRI-206	Intro to Animal Science	3	AGRI -207	Intro to Animal Nutrition	3
**_***	Arts/Humanities Elective	3	**_***	Arts/Humanities Elective	3
	Total Credits	17		Total Credits	16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL -201	Comp. Anatomy or (BIOL-207)	4	BIOL -210	Genetics	4
CHEM -301	Organic Chemistry I & Lab	4	CHEM -302	Organic Chemistry II & Lab	4
PHYS-201	Physics I	4	PHYS -202	Physics II	4
NTRS-321	Biometrics	3	AGRI -208	Soil Science	3
**_***	Approved Elective*	3			
	Total Credits	18		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL -322	Microbiology & Lab	4	CHEM -403	Biochemistry & lab	4
AGRI -***	Anim. Sci.Elec. (non-ruminant)	3	AGRI -404	Sustainable Ag **	3

AGRI - 317	Fund. Of Crop Production	3	AGRI - ***	Anim. Sci. Elec. (ruminant)	3
ECON- 201	Macroeconomics	3	GLOB- 395	Global Societies	3
	Total Credits	13		Total Credits	13

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

Total Credits: 123

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**B.S. DEGREE IN AGRICULTURE – ANIMAL & POULTRY SCIENCE**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MVSC-100	Fitness and Wellness	2	BIOL-102	General Biology II & Lab	4
BIOL-101	General Biology I & Lab	4	MTSC-122	Trigonometry	3
MTSC-121	College Algebra	3	AGRI-192	University Seminar II	1
AGRI-191	University Seminar I	1	AGRI-102	Ag & NR Science	1
HIST-***	History Elective	3	**_***	Elective	3
	Total Credits	16		Total Credits	15
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-***	Literature Elective	3	**_***	Elective	3
BIOL-205	Ecology	4	ENGL -200	Speech	3
CHEM-101	General Chemistry I & Lab	4	CHEM -102	General Chemistry II & Lab	4
AGRI-206	Intro to Animal Science	3	AGRI -207	Intro to Animal Nutrition	3
ECON-201	Macroeconomics	3	AGRI -208	Soil Science	3
	Total Credits	17		Total Credits	16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
**_***	Arts/Humanities Elective	3	**_***	Arts/Humanities Elective	3
BIOL -201	Comp. Anatomy or (23-207)	4	BIOL -210	Genetics	4
AGRI-305	Intro to Poultry Science	3	AGRI -304	Marketing Ag Products	3
NTRS -321	Biometrics	3	AGRI -306	Advanced Poultry Science	3
GLOB-395	Global Societies	3	AGRI -315	Livestock Selection & Breeding	3
	Total Credits	16		Total Credits	16
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MSCM-408	Tech & Sci. Writing	3	BIOL -322	Microbiology Lect. and Lab	4
AGRI -	Farm Management *	3	AGRI -	Sustainable Ag **	3

309			404		
AGRI - 466	Pork Production and Mgt.	3	AGRI - 406	Beef Cattle and Sheep Production	3
AGRI - 317	Fund. of Crop Production	3	AGRI - 463	Forage Crop Prod.& Management	3
	Total Credits	12		Total Credits	13

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

Total Credits: 121
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**B.S. DEGREE IN AGRICULTURE – EQUINE BUSINESS MANAGEMENT**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MVSC-100	Fitness and Wellness	2	BIOL-102	General Biology II & Lab	4
BIOL-101	General Biology I & Lab	4	MTSC-122	Trigonometry	3
MTSC-121	College Algebra	3	AGRI-192	University Seminar II	1
AGRI-191	University Seminar I	1	AGRI-102	Ag & NR Science	1
HIST-***	History Elective	3	MGMT-205	Management Processes	4
	Total Credits	16		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-***	Literature Elective	3	**_***	Elective	3
BIOL-205	Ecology	4	CHEM-102	General Chemistry II & Lab	4
CHEM-101	General Chemistry I & Lab	4	AGRI -207	Intro to Animal Nutrition	3
AGRI-206	Intro to Animal Science	3	AGRI -208	Soil Science	3
ACCT-201	Accounting I	3	ACCT-203	Acct. for Decision Makers	3
	Total Credits	17		Total Credits	16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
**_***	Arts/Humanities Elective	3	**_***	Arts/Humanities Elective	3
AGRI -***	Intro to Horse Science	3	ENGL -200	Speech	3
AGRI-463	Forage Crop Prod. & Mgt.	3	AGRI-***	Equine Management	3
AGRI-465	Weed Science	3	ECON -202	Microeconomics	3
NTRS-321	Biometrics	3	MKT-300	Marketing	3
ECON -201	Macroeconomics	3			
	Total Credits	18		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
**_***	Elective	3	AGRI-	Marketing Ag Products	3

			304		
AGRI-309	Farm Management *	3	AGRI-404	Sustainable Ag **	3
GLOB-395	Global Societies	3	ECON-414	Money and Banking	3
ACCT-302	Legal Environment of Business	3	MKT-303	Selling and Sales Management	3
	Total Credits	12		Total Credits	12

Total Credits: 122
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**\*\* Senior Capstone**

**Writing Intensive Course(s)**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**



**B.S. DEGREE IN NATURAL RESOURCES – FISHERIES MANAGEMENT**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MVSC-100	Fitness and Wellness	2	BIOL-102	General Biology II & Lab	4
BIOL-101	General Biology I & Lab	4	MTSC-122	Trigonometry	3
MTSC-121	College Algebra	3	AGRI-192	University Seminar II	1
AGRI-191	University Seminar I	1	NTRS-103	Intro to Environmental Science	3
HIST-***	History Elective	3			
	Total Credits	16		Total Credits	14
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL -200	Speech	3	**_***	Elective	3
ENGL-***	Literature Elective	3	BIOL -210	Genetics	4
23 BIOL-205	Ecology	4	CHEM-102	General Chemistry II & Lab	4
CHEM-101	General Chemistry I & Lab	4	ECON-201	Macroeconomics	3
NTRS-325	Fisheries/Wildlife Management	3	BIOL -200	Invertebrate Zoology	3
	Total Credits	17		Total Credits	17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
**_***	Arts/Humanities Elective	3	**_***	Elective	3
PHYS-121	Concept Physics I	4	PHYS-122	Concept Physics II	3
NTRS -314	Ichthyology	3	NTRS -302	Hydrology	3
NTRS -321	Biometrics	3	NTRS -313	Limnology	3
GLOB-395	Global Societies	3	AGRI-350	Problems in Ag and NR*	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
NTRS -361	Aquaculture	3	PHIL-202	Ethics or (03-105)	3

NTRS - 404	Fisheries Science	3	NTRS-405	Principles of Fisheries Mgt.	3
NTRS - 469	Eco. Land Use Planning	3	NTRS -431	Ecosystems **	3
NTRS - 475	Env.& Wildlife Law *	3	NTRS -456	Wetland Biology	3
			NTRS -***	Adv. Approved NR Elective	3
	Total Credits	12		Total Credits	15

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 121

**B.S. DEGREE IN NATURAL RESOURCES – WILDLIFE MANAGEMENT**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MVSC-100	Fitness and Wellness	2	BIOL-102	General Biology II & Lab	4
BIOL-101	General Biology I & Lab	4	MTSC-122	Trigonometry	3
MTSC-121	College Algebra	3	AGRI-192	University Seminar II	1
AGRI-191	University Seminar I	1	NTRS-103	Intro to Environmental Science	3
HIST-***	History Elective	3	PHIL-202	Ethics or (PHIL-105)	3
	Total Credits	16		Total Credits	17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	**_***	Elective	3
ENGL-***	Literature Elective	3	BIOL -200	Invertebrate Zoology	3
<del>23</del> BIOL-205	Ecology	4	<del>23</del> BIOL -210	Genetics	4
CHEM-101	General Chemistry I & Lab	4	CHEM-102	General Chemistry II & Lab	4
NTRS-111	Dendrology	3	ECON-201	Macroeconomics	3
	Total Credits	17		Total Credits	17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
**_***	Arts/Humanities Elective	3	**_***	Elective	3
NTRS -311	Mammology	3	AGRI-213	Systematic Botany	3
NTRS -321	Biometrics	3	AGRI-208	Soil Science	3
NTRS -201	Fisheries/Wildlife Management	3	NTRS -312	Ornithology	3
GLOB-395	Global Societies	3	AGRI-350	Problems in Ag and NR*	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
NTRS -469	Eco. Land Use Planning	3	NTRS -431	Ecosystems **	3

NTRS - 475	Env.& Wildlife Law *	3	NTRS -456	Wetland Biology	3
NTRS - 484	Adv. Wildlife Biology	3	NTRS-***	Adv. Approved NR Elective	3
**_***	Adv. Approved Comm. Elec.	3	**_***	Elective	3
	Total Credits	12		Total Credits	12

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 121

**B.S. DEGREE IN NATURAL RESOURCES – ENVIRONMENTAL SCIENCE**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MVSC-100	Fitness and Wellness	2	BIOL-102	General Biology II & Lab	4
BIOL-101	General Biology I & Lab	4	MTSC-122	Trigonometry	3
MTSC-121	College Algebra	3	AGRI-192	University Seminar II	1
AGRI-191	University Seminar I	1	NTRS-103	Intro to Environmental Science	3
HIST-***	History Elective	3			
	Total Credits	16		Total Credits	14
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	PHIL-202	Ethics or (03-105)	3
BIOL-205	Ecology	4	BIOL-210	Genetics	4
CHEM-101	General Chemistry I & Lab	4	CHEM -102	General Chemistry II & Lab	4
MTSC-251	Calculus I	4	ECON-201	Macroeconomics	3
**_***	Arts/Humanities Elective	3	**_***	Elective	3
	Total Credits	18		Total Credits	17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL -***	Literature Elective	3	**_***	Elective	3
CHEM-201	Quantitative Analysis or Toxicology (30-266	3-4	BIOL -209	General Botany or Dendrology -NTRS-111	3
PHYS-121	Physics I or Hydrology 30-302	3	AGRI -208	Soil Science	3
NTRS -202	Microclimatology	3	NTRS -313	Limnology	3
NTRS -321	Biometrics	3	GLOB-395	Global Societies	3
	Total Credits	15		Total Credits	15

Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
AGRI - 350	Prob in Ag & NR Science *	3	AGRI - 404	Sustainable Ag or Micro BIOL-322	3-4
NTRS - 401	Soil and Water Management	3	NTRS-***	Natural Resource Elective	3
NTRS - 469	Eco. Land Use Planning	3	NTRS -431	Ecosystems **	3
NTRS - 475	Env.& Wildlife Law *	3	NTRS -456	Wetland Biology	3
**_***	Advisor Approved Elective	3			
Total Credits		15	Total Credits		12

Total Credits: 122

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

### **Environmental Minor**

In recognition of the growing general interest in environmental topics and the newly recognized importance of environmental information to citizens in general, an Environmental Minor has been established. The minor is available to students of any major and consists of eighteen (18) credit hours of study as outlined.

Three (3) or four (4) credits from the following groups:

- *Basic Ecology* (Biology 105 and Natural Resources 105); or
- *Ecology* (Biology 205 and Natural Resources 205).

Twelve (12) credits from the following groups:

- *Agriculture* 208;
- *Natural Resources* 313, 401, 403, 405, 452, 455, 465;
- *Chemistry* 203, 409-410;
- *Geography* 101;
- *Physical Science* 101;
- *Political Science* 230; or
- *Sociology* 330.

## **AGRICULTURE (AGRI) (29)**

### **AGRI-102. AGRICULTURE AND NATURAL RESOURCES SCIENCE**

**1:1:0**

The role of Agriculture and Natural Resources in human history, present and future. Discussion of current opportunities. One (1) one-hour lecture per week.

Credit, one hour.

### **AGRI -191. UNIVERSITY SEMINAR I – AGRICULTURE AND NATURAL RESOURCES**

**1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **AGRI -192. UNIVERSITY SEMINAR II – AGRICULTURE AND NATURAL RESOURCES**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **AGRI -204. FRUIT PRODUCTION**

**3:2:2**

A study of scientific principles impacting fruit production. Breeding and selection, asexual techniques, and development of fruiting bodies will be included. Adaptation, cultural practices, and storage of major fruit species will be considered. Two (2) one-hour lectures and one (1) two-hour laboratory period per week.

Prerequisites: AGRI-219.

Credit, three hours.

### **AGRI -205. PLANT PHYSIOLOGY**

**3:2:2**

A survey of modern plant physiology, including the study of photosynthesis, metabolism of organic materials, water relations, inorganic nutrition, plant growth regulators, and plant movements. Two (2) lectures and one (1) two-hour laboratory period per week.

Prerequisites: BIOL-101, BIOL-102.

Credit, three hours.

### **AGRI -206. INTRODUCTION TO ANIMAL SCIENCE**

**3:2:2**

A study of the various species of livestock and their commercial production. Breed characteristics will be studied as they relate to selection, feeding, care, disease control, and marketing for maximum economic performance. The role of animal agriculture in U.S. society today will be stressed. Two (2) lectures and one (1) two-hour laboratory.

Prerequisites: : BIOL-101, BIOL-102, CHEM-101.

Credit, three hours.

### **AGRI -207. INTRODUCTION TO ANIMAL NUTRITION**

**3:2:2**

Basic nutrition and feeding practices for the various species of commercial livestock. Feeds, their sources, composition, characteristics, and feed value will be explored. Ration balancing and its practical field application will be discussed. Two (2) lectures and one (1) two-hour recitation.

Prerequisites: AGRI-206, MTSC 121, MTSC 122.

Credit, three hours.



**AGRI -208. SOIL SCIENCE****3:2:2**

A study of soils, their physical and chemical characteristics, with special emphasis on those factors which affect plant growth. Soil formation, the use of fertilizers, and soil and water conservation are considered. Special emphasis is placed on the soils of Delaware and their management. Two (2) lectures and one (1) two-hour laboratory period per week.

Prerequisites: CHEM-101, BIOL-102.

Credit, three hours.

**AGRI -209. MEAT AND MEAT PROCESSING****3:3:0**

A study of slaughtering, grading, cutting, processing, identification, buying, and cooking of cuts of meat.

Credit, three hours.

**AGRI -210. LANDSCAPING****3:2:2**

Theory and practice of landscape design with special application to the home grounds. Practice in drawing and estimating planting plans and differential leveling will also be emphasized. Grading, propagation, plant combinations, and uses in association with structures and gardens will be studied. Two (2) lectures and one (1) two-hour laboratory period per week.

Credit, three hours.

**AGRI -213. SYSTEMIC BOTANY****4:4:0**

The study of plant taxonomy with emphasis on vascular plants of the Del-Mar-Va peninsula.

Prerequisites: BIOL-101, BIOL-102.

Credit, four hours.

**AGRI -219. GENERAL HORTICULTURE****3:2:2**

A study of fruit, vegetable, and ornamental plants; the factors, which influence their culture, value, and importance, with particular references to the Delmarva Peninsula. Two (2) lectures and one (1) two-hour laboratory.

Credit, three hours.

**AGRI -248. TROPICAL AGRICULTURE, ECOSYSTEMS, AND CONSERVATION****3:3:0**

An introduction to tropical agriculture, ecology, and conservation. A three-week intensive course that includes five (5) days of class work at DSU and two (2) weeks of study abroad in the tropics. The course includes the study of the ecology of tropical systems, the political and social concerns involved in the tropics, an overview of the flora and fauna of tropical ecosystems, and current issues in conservation and restoration.

Credit, three hours.

**AGRI -304. MARKETING AGRICULTURAL PRODUCTS****3:3:0**

To acquaint the student with the basic nature of agriculture product marketing as it relates to producers, consumers, food processors, wholesalers, and retailers. Examine how food marketing works and its role in the food industry and the economy. Three (3) one-hour lectures per week.

Credit, three hours.

**AGRI -305. INTRODUCTION TO POULTRY SCIENCE****3:2:2**

Poultry production with emphasis on integrated broiler operations on the Delmarva Peninsula. Strains, housing, equipment, nutrition, and disease control will be discussed. Embryology and table egg production will also be addressed. Two (2) lectures and one (1) two-hour laboratory.

Prerequisites: BIOL-101, BIOL-102.

Credit, three hours.

**AGRI -306. ADVANCED POULTRY SCIENCE****3:2:2**

An advanced study of the commercial poultry industry with special emphasis on commercial broiler production. Building design, equipment, ventilation, and feeding systems will be covered. Emphasis will also be directed toward flock health, nutrition, daily care, and commercial processing. In addition, hands-on experience with raising a commercial flock of 1,000 broilers will be a primary focus of the laboratory.

Prerequisites: AGRI-305,BIOL-102.

Credit, three hours.

### **AGRI -308. PLANT PATHOLOGY**

**3:2:2**

A study of parasitic and non-parasitic diseases. Fungal, bacterial, and viral diseases will be considered. Damage due to nutrient deficiencies, air pollutants, and other environmental causes will be studied. Insects damaging plants will be studied. Two (2) lectures and one (1) two-hour laboratory period per week. Offered in alternate years.

Prerequisites: BIOL-102.

Credit, three hours.

### **AGRI -309. FARM MANAGEMENT**

**3:3:0**

The problem of organizing, coordinating, and managing farm enterprises. A study of the methods used in farm business analysis together with farm accounting and bookkeeping. Three (3) one-hour lectures.

Prerequisites: MTSC-121, MTSC -122, ECON-201, AGRI-206, AGRI -317.

Credit, three hours.

### **AGRI -310. VEGETABLE GARDENING**

**3:2:2**

Fundamentals in the production of vegetable crops. Scientific principles of plant growth will be applied to vegetable production practices. Adaptation and breeding will be included. Production systems and soil interactions will be studied. Two (2) lectures and one (1) two-hour laboratory period per week.

Prerequisites: AGRI -219.

Credit, three hours.

### **AGRI -314. ECONOMIC BOTANY**

**3:2:2**

The botanical study of the major food, fiber, medicinal, and forage plants of the world. The emphasis is on economically significant plants in the Western world and includes morphology, chemistry, history, and modern usage. May include a one-day weekend trip. Three (3) credit hour lectures per week.

Credit, three hours.

### **AGRI -315. LIVESTOCK SELECTION AND BREEDING**

**3:3:0**

An in depth study of the livestock breeding industry with special emphasis on methods of evaluating animals using visual, genetic, and performance records. Selection criteria, ratios, index systems, expected progeny differences, expected breeding values, and repeatability will be covered for the major livestock species. Live animal evaluation will be the primary focus of the laboratory.

Prerequisites: AGRI -206, BIOL-102.

Credit, three hours.

### **AGRI -316. PLANT GENETICS AND BREEDING**

**3:3:0**

Basic principles of plant genetics and breeding. Tools and techniques in traditional plant breeding as well as the use of biotechnological methods in genetics, cultivar development are discussed. Introduction to plant genome studies and genomics. Three (3) credit hours per week.

Credit, three hours.

### **AGRI -317. FUNDAMENTALS OF CROP PRODUCTION**

**3:2:2**

An introduction to the fundamentals of crop growth and the study of the more important field crops. Emphasis will be placed on the effects of various cultural practices on the plant growth. Crop distribution and breeding will be considered. Cropping systems will be developed and analyzed. Two (2) lectures and one (1) two-hour laboratory per week.

Prerequisites: BIOL -102.

Credit, three hours.

### **AGRI -319. HORTICULTURAL PLANT MATERIALS**

**3:2:2**

Ecology, taxonomy, and landscape uses of herbaceous and wood plant materials. Two (2) lectures and one (1) two-hour laboratory, and field trips.

Credit, three hours.

**AGRI -323. AGRICULTURAL AND NATURAL RESOURCES MACHINERY****3:4:2**

Principles of function and operation, stressing proper selection, use, and management of agriculture and natural resource machinery. Two (2) two-hour lectures per week.

Credit, three hours.

**AGRI -324. AGRICULTURAL AND NATURAL RESOURCES POWER****3:2:2**

A study of the types of power available to operate agricultural and natural resources equipment. Combustion engines, electric motors, and other power sources will be explored. Design, operating principles, and maintenance will be emphasized. Measurements of power and power source selection will be considered. Two (2) lectures and one (1) two-hour laboratory period per week.

Credit, three hours.

**AGRI -325. INTRODUCTION TO ENTOMOLOGY****3:2:2**

An introduction to the field of entomology, including taxonomic descriptions of the various orders of insects. The impacts of insects on various crops, livestock, and forest plants will be discussed as well as methods of control currently used in production systems. Two (2) one-hour lectures and one (1) two-hour laboratory per week.

Credit, three hours.

**AGRI -350. PROBLEMS IN AGRICULTURE AND NATURAL RESOURCES****1-3:1-3:0**

An opportunity to pursue independent study and research. May be elected during junior and senior years.

Prerequisites: Consent of the Instructor.

Credit, one to three hours per semester.

**AGRI -375. MOLECULAR GENETICS AND GENOMICS****4:3:3**

An in-depth discussion of molecular genetic principles and genomic methods as applied to model and commercially relevant biological organisms. Review of cutting edge technology, literature, and methods applied on a genomic scale; this course will also investigate evolutionary relationships between various organisms and utilization of tools from the genomic era to better elucidate similarities and differences.

Credit, three hours.

**AGRI -404. SUSTAINABLE AGRICULTURE****3:3:0**

An evaluation of agricultural production practices to determine the potential for profitable production, maintaining environmental quality, and insuring that food requirements of the population will be met. The biology of food production systems will be explored to determine relationships between inputs, output, and social-environmental impacts. The interface between mechanization, specialized buildings, labor, and biological systems will be evaluated. Three (3) one-hour lectures.

Prerequisites: AGRI -206, AGRI -208, AGRI -317.

Credit, three hours.

**AGRI -406. BEEF AND SHEEP PRODUCTION****3:2:2**

A study of the principle of nutrition, physiology, and reproduction as they relate to the economic production of beef and lamb. Sound management techniques and their integration into a sustainable enterprise will be studied. Breeding and selection as it relates to both registered and commercial herds and flocks will be considered. Two (2) one-hour lectures and one (1) two-hour laboratory.

Prerequisites: AGRI -206, AGRI -207.

Credit, three hours.

**AGRI -407. METHODS OF TEACHING AGRICULTURE****3:3:0**

The course, through numerous demonstrations, indicates how basic educational principles and techniques may be applied in the teaching of agriculture in the secondary school. The importance of demonstration as a method is given special consideration. Problems of organization, management, and evaluation in department of agriculture in secondary schools are explored.

Credit, three hours.

**AGRI -408. PLANT CELL AND TISSUE CULTURE****4:3:3**

An introduction to the theory, application, and technique of plant cell and tissue culture. Cell theory, totipotency, and the genetic basis of plant cell and tissue culture will be presented, along with methods and techniques for the culture, growth, and development of plant cells and tissues. Two (2) one-and-one-half hour lectures and one (1) three-hour laboratory.

Prerequisites: BIOL-101, BIOL -102, AGRI -205.

Credit, four hours.

**AGRI -409. PRINCIPLES OF WEED SCIENCE****3:3:0**

This course is a study of weeds and their control. Principles involving weed plant classification, weed biology and ecology, and plant and herbicide chemistry will be presented. Practices which prevent, eliminate, and control weeds in grain crops, legumes, vegetables, fruit, pasture, and other crop ecologies will be discussed. Herbicide formulations and safe herbicide use will be taught. Two (2) one-hour lectures and one (1) two-hour laboratory.

Prerequisites: BIOL-102, AGRI -317 or AGRI -219.

Credit, three hours.

**AGRI -315. LIVESTOCK SELECTION AND BREEDING****3:2:2**

An in depth study of the livestock breeding industry with special emphasis on methods of evaluating animals using visual, genetic, and performance records. Selection criteria, ratios, index systems, expected progeny differences, expected breeding values, and repeatability will be covered for the major livestock species. Live animal evaluation will be the primary focus of the laboratory.

Prerequisites: AGRI -206, BIOL-102.

Credit, three hours.

**AGRI -419. PLANT PROPAGATION AND GREENHOUSE MANAGEMENT****3:2:2**

Techniques and principles of plant propagation by seeds, grafts, buds, cuttings, layers, and division. Fundamentals of greenhouse management and construction. Two (2) lectures, two (2) hours of laboratory per week, including field trips.

Credit, three hours.

**AGRI -463. FORAGE CROP PRODUCTION AND MANAGEMENT****3:2:2**

A study of the characteristics, adaptation, improvement management, and utilization of grasses and legumes for animal feed and their role in row crop agriculture. Two (2) one-hour lectures and one (1) two-hour laboratory per week.

Prerequisites: AGRI -208, AGRI -317.

Credit, three hours.

**AGRI -466. PORK PRODUCTION AND MANAGEMENT****3:2:2**

Application of the principles of nutrition, physiology, and herd selection, breeding, and marketing to swine production and management. Structure of the industry, enterprise establishment, and systems of production, production practices, and herd improvement programs will be discussed. Evaluation of production responses and economic returns will be covered. Two (2) one-hour lectures and one (1) two-hour laboratory per week.

Prerequisites: AGRI -206, AGRI -207.

Credit, three hours.

**AGRI -495. Co-op-AGRICULTURE AND NATURAL RESOURCES****1-6:1-6:0**

The cooperative education program combines formal academic study with periods of practical work experience in business, industry, government, or service organizations.

Prerequisites: 45 credit hours completed, consent of the Coop Ed Coordinator and the Department Advisor.

Credit, one to six hours.

## **NATURAL RESOURCES (NTRS) (30)**

### **NTRS-103. INTRODUCTION TO ENVIRONMENTAL SCIENCE**

**3:2:2**

Concepts concerning the relationships among the physical, chemical, and biological components of the environment, and the impact upon them due to the activities of our own populations. Two (2) hours lecture and two (2) hours laboratory or field exercises per week.

Credit, three hours.

### **NTRS -104. COMPUTER LITERACY**

**3:3:0**

The graduate in agriculture and natural resources must be computer literate. Training that utilizes application in agriculture or natural resources results in a higher degree of learning and a higher level of comfort.

Credit, three hours.

### **NTRS -105. BASIC ECOLOGY**

**3:2:2**

The study of the fundamental relationships between the living and non-living worlds, with special emphasis on man's place in nature. Two (2) lectures, and one (1) two-hour laboratory, and field trips.

Prerequisites: BIOL-100, BIOL-101, BIOL-102, or consent of the Instructor. Not offered for credit to majors in Biology, Agriculture, and Natural Resources.

Credit, three hours.

### **NTRS -111. DENDROLOGY**

**3:2:2**

Systematic experience in the identification of principle forest trees of North America including special emphasis on the trees of the Delmarva Peninsula. Lectures, demonstrations, and laboratories.

Credit, three hours.

### **NTRS -112. INTRODUCTION TO FORESTRY**

**3:3:0**

A study of the history and development of the nation's forest resources; forest policies: the management, development and protection of forests and related resources; and the training, experience, judgments, and scientific tools needed to effectively manage these natural resources. Lectures, demonstrations, and laboratory.

Credit, three hours.

### **NTRS -200. INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS**

**3:2:2**

This introductory course in Geographic Information Systems will provide basic knowledge of GIS theory and applications using a combination of lectures, demonstrations, and hands-on interactive tutorials with up-to-date GIS software. The course is designed for students in natural resources, agriculture, ecology, environmental management, or similar disciplines that could benefit from a professional GIS curriculum (such as economics, public policy, and administration). Two (2) hours lecture and two (2) hours laboratory per week.

Credit, three hours.

### **NTRS -202. MICROCLIMATOLOGY**

**3:3:0**

A study of the climate near the ground. Influence for vegetation, snow, fog, and topography on microclimates. Agricultural and medical implications. Microclimate of cities. Offered in alternate spring semesters.

Credit, three hours.

### **NTRS -203. INTRODUCTION TO URBAN FORESTRY**

**3:3:0**

A study of the management of tree communities in and around human settlements ranging from small rural communities and suburban neighborhoods, metropolitan parks, and downtown areas. Lectures, demonstrations, and laboratories (including weekends). Offered in alternate years.

Credit, three hours.

### **NTRS -205. ECOLOGY**

**4:3:2**

The study of organisms in relation to their environment. Three (3) lectures and one (1) three-hour laboratory period per week. The course includes three (3) weekend field trips. Offered in fall semesters.

Prerequisites: BIOL-101, BIOL-102, or consent of the Instructor.

Credit, four hours.

**NTRS -261. AQUACULTURE**

**3:3:0**

A study of the farming and husbandry of fish and other aquatic organisms throughout the world, with emphasis on North American species and practices. The laboratory includes hand-on activities and field trips to production sites.

Prerequisites: BIOL-102, BIOL-205, CHEM-102, or consent of the Instructor.

Credit, three hours.

**NTRS -302. HYDROLOGY**

**3:2:2**

An introduction to the physics of standing and flowing water, including gradients, velocity and shear, transport properties, and impacts on aquatic organisms. Two (2) hours lecture and two (2) hours laboratory per week.

Prerequisites: Completion of MTSC-121.

Credit, three hours.

**NTRS -311. MAMMALOGY**

**3:3:0**

The identification, classification, distribution, evolution, and life history of mammals.

Prerequisites: BIOL-100, BIOL-101, BIOL-102, or consent of the Instructor.

Credit, three hours.

**NTRS -312. ORNITHOLOGY**

**3:2:2**

A study of the field identification, ecology, and biology of the birds of the Delaware-Maryland-Virginia area. The course includes weekly field trips.

Prerequisites: BIOL-100, BIOL-101, BIOL-102, or consent of the Instructor.

Credit, three hours.

**NTRS -313. LIMNOLOGY**

**3:2:2**

A study of the biological, chemical, and physical factors in streams and lakes, and the effects of these factors upon water and upon aquatic organisms. Two (2) hours lecture and two (2) hours laboratory per week.

Prerequisites: BIOL-101, BIOL-102, CHEM-101, CHEM-102, or consent of the Instructor.

Credit, three hours.

**NTRS -314. ICHTHYOLOGY**

**3:3:0**

The identification, classification, distribution, evolution, and life history of fishes.

Prerequisites: BIOL-201, or consent of the Instructor.

Credit, three hours.

**NTRS -321. BIOMETRICS**

**3:3:0**

The application of statistical procedures to agriculture and natural resources. Data presentation and distribution measurements will be studied. Probability, simple correlation - regression, and analysis of variance will be included. Three (3) one-hour lectures.

Prerequisites: MTSC-121, MTSC-122, BIOL-101, BIOL-102.

Credit, three hours.

**NTRS -325. FISH AND WILDLIFE MANAGEMENT**

**3:2:2**

A study of the theories and applications of animal ecology pertaining to the management of natural populations and communities. Life history studies of selected wildlife species. Relationships of wildlife to ecosystems, including effects of pollution, pesticides, and habitat conditions. Two (2) lectures and one (1) two-hour laboratory. Offered in alternate spring semesters.

Prerequisites: NTRS-205, or consent of the Instructor.

Credit, three hours.

**NTRS -401. SOIL AND WATER MANAGEMENT****3:2:2**

A study of the theories and practices employed in managing soil and water. Coordination of soil and water uses to improve productivity and to prevent erosion depletion. Effects of pesticides, pollution, and drought. Two (2) one-hour lectures and one (1) two-hour laboratory per week, and an all-day field trip.

Prerequisites: NTRS -205, AGRI-209, or the consent of the Instructor.

Credit, three hours.

**NTRS -404. FISHERIES SCIENCE****3:3:0**

A study of the environmental and biological factors related to the physiology and behavior of fishes.

Prerequisites: NTRS -205, NTRS -321, or consent of the Instructor.

Credit, three hours.

**NTRS -405. PRINCIPLES OF FISHERIES MANAGEMENT****3:3:0**

A study of the capacities of aquatic environments required by fishes with emphasis on management problems typical of selected environments.

Prerequisites: NTRS -205, NTRS -314, NTRS -404, or consent of the Instructor.

Credit, three hours.

**NTRS -431. ECOSYSTEMS****3:3:0**

A senior level capstone course, integrating concepts in social, physical, and biological sciences with an introduction to the quantitative synthesis of ecological systems. The course is designed to provide the specialist with a total view of resource use and management. Offered in spring semesters.

Prerequisites: NTRS -205, NTRS -321 or consent of the Instructor.

Credit, three hours.

**NTRS -452. ENVIRONMENTAL EDUCATION WORKSHOP****1-3:1-3:0**

Opportunity for practical experience in development and implementation of environmental education concepts from pre-school to adult. May be elected whenever offered.

Prerequisites: Consent of Instructor.

Credit, one to three hours per semester.

**NTRS -456. WETLANDS BIOLOGY****3:3:0**

A broad overview of the ecological structure and function of wetlands environment, emphasizing comparisons of different wetland types in terms of hydrology, soils, biogeochemistry, biota, and ecological processes. Human interactions with wetlands will be examined in terms of wetlands values and functions, delineation, classification, inventory, regulation, mitigation, compensation, and management. Lectures, demonstrations, laboratories, and two (2) weekend field trips. Offered in alternate years.

Prerequisites: NTRS -205, or consent of Instructor.

Credit, three hours.

**NTRS -464. NATURAL RESOURCES INTERNSHIP****1-8:1-8:0**

Designed to give students first-hand, career related experience in a local state, or federal agency or organization. Internships must be planned with a faculty coordinator and a Field Supervisor in the semester prior to the actual placement. Qualified agency staff provides on-site supervision of the student, while the faculty coordinator monitors the Intern's progress and (in conjunction with the Field Supervisor) evaluates the Intern's work.

Prerequisites: Junior or Senior Status.

Credit, one to eight hours.

**NTRS -465. MARINE BIOLOGY****3:2:2**

A broad overview of the biota of marine environments, examining the ecological structure and function of oceanic, coastal, and estuarine habitats. Aspects of physical, chemical, and geological oceanography will also be covered, pertinent to biological communities and adaptations. Lectures, demonstrations, laboratories, and two (2) weekend field trips. Offered in alternate years.

Prerequisites: NTRS -205, and consent of the Instructor.

Credit, three hours.

**NTRS -466. ENVIRONMENTAL TOXICOLOGY****3:2:2**

A course to integrate biology and chemistry into a useful approach to poisons and pollutants and their control. Methods are developed to express and measure toxicity, predict risks, and illustrate how laws and regulations are developed to communicate risks and control hazards. The students will learn to express the complex mechanics of statistics and to reduce armacodynamics to simple graphics representations. Lectures, demonstrations, laboratories, and weekend field trips. Offered in alternate years.

Prerequisites: CHEM-101, CHEM-102, NTRS -205.

Credit, three hours.

**NTRS -469. ECOLOGICAL LAND USE PLANNING****3:3:0**

Theory and application of environmental planning from the standpoints of public and private interests. Major topics include terrain analysis and natural and social environments. These serve as the framework upon which the results of change are analyzed and provide suitable foci for the examination of case studies, which are examined. Lectures, demonstrations, laboratories, and weekend field trips. Offered in alternate years.

Prerequisites: NTRS -205, AGRI-208.

Credit, three hours.

**NTRS -475. ENVIRONMENTAL AND WILDLIFE LAW****3:3:0**

A study of the development and enforcement of environmental law. Emphasis on the history of the molding of national and regional environmental policy concerns. Synoptic review of major international, national, regional, state, and local environmental laws. Offered in alternate years.

Prerequisites: NTRS -205.

Credit, three hours.

**NTRS -484. ADVANCED WILDLIFE BIOLOGY****3:2:2**

Advanced study of wildlife populations including the application of computers to field data analysis and theoretical models. Research techniques of project planning, record keeping, wildlife literature review, and scientific writing. Environmental management using remote sensing and reconnaissance field mapping, habitat analysis and evaluation, sustained yield, and wildlife damage and control. Lectures, demonstrations, laboratories, and weekend field trips. Offered in alternate years.

Prerequisites: NTRS -325.

Credit, three hours.



## **DEPARTMENT OF HUMAN ECOLOGY**

**Chair:** Besong

**Associate Professors:** Adegoke, Besong, Clausell, Oh

**Didactic Program in Dietetics Director:** Giesecke

**Assistant Professor:** Lee, Lumor

### **Mission Statement**

The mission of the Department of Human Ecology is to provide students with a high quality undergraduate education for entry-level position in Food and Nutritional Sciences, and Textiles and Apparel Studies. The Department's mission is consistent with that of the College and the University.

#### ***The objectives of the Department are to:***

- 1.1:** Improve the quality of teaching and learning in all programs.
- 1.2:** Improve retention and graduation rates by 5%.
- 1.3:** Maintain and seek accreditations and certifications for programs.
- 1.4:** Develop and implement master degree program that meets societal needs of diverse populations.
  
- 2.1:** Increase faculty participation and provide research opportunities for students to participate.
- 2.2:** Increase external funds through grantsmanship and research contracts.
- 2.3:** Increase student diversity by recruiting students from international & underrepresented groups to reflect the demographics of the state and the nation.
- 2.4:** Enhance interdisciplinary research and encourage collaborative research.
  
- 3.1:** Provide resources and opportunities for professional development.
- 3.2:** Encourage use of technology to enhance and expand course delivery.
- 3.3:** Strengthen the tripartite 1890 Land-Grant missions programs.

### **Vision**

The Department's vision is consistent with that of the College of Agriculture and Related Sciences which is to demonstrate excellence in teaching, research, and outreach in Food and Nutritional science, Food safety, Textiles and Apparel Studies.

### **Programs**

The Department offers a Bachelors of Science (BS) in: 1) Consumer Sciences (CS), 2) Food, Nutrition & Dietetics (FND); and 3) Textiles and Apparel Studies (TAS). A Baccalaureate degree is conferred upon completion of a minimum of 124-125 hours of coursework. A minimum grade of "C" is required in all coursework designated as major course requirements. The Department also offers a minor in Food and Nutritional Sciences (FNS) and Textiles and Apparel Studies. Students in other degree programs can receive a minor in FNS or TAS upon completion of a minimum of eighteen (18) hours of coursework for FNS or twenty-one (21) hours of coursework for TAS.

### **Food and Nutritional Sciences (FNS)**

The Food and Nutritional Sciences program provides students with knowledge and skills in nutrition and dietetics. If students have a 2.75 overall GPA and desire to seek a 1200 hour Supervised Practice Program (Dietetic Internship) after graduation, they complete the requirements in the Didactic Program in Dietetics. The Didactic Program in Dietetics (DPD) within the Food and Nutritional Sciences program is accredited by the Commission on Accreditation for Dietetics Education (CADE) of the Academy of

Nutrition and Dietetics (formerly the American Dietetic Association - ADA). This program provides students with the knowledge, skills and competencies required for the practice of dietetics. A Baccalaureate degree is conferred upon completion of thirty (30) credit hours of General Education courses, forty-two (42) credit hours of supporting courses, and fifty-three (53) credit hours of FNS core courses. Successful completion of the FNS program enables students to receive a Verification Statement signifying completion of Academy required coursework and to be qualified for acceptance into the dietetic internship program. They are also prepared for graduate studies in nutritional sciences, public health, preventive medicine, medical, dental and pharmacy school, nutrigenomics, and sports nutrition.

**To become a Registered Dietitian, students must:**

1. Complete a baccalaureate degree.
2. Complete a supervised practice dietetic internship.
3. Pass the Registration exam administered by the Commission on Dietetic Registration.
4. Complete continuing professional requirements to maintain registration.

**Textiles and Apparel Studies (TAS)**

The TAS program provides students with the knowledge and skills needed to work in industries that use, produce, and merchandise textiles and apparel products. Courses are designed to build decision making, communication, and critical thinking skills, and to help students develop the ability to solve problems in a teamwork environment. Majors are required to complete an approved internship after completion of all junior level TAS courses. Students have the opportunity to participate in summer internship at collaborative industries for hands-on experience in design and fashion merchandizing, and exposure to new products. A Baccalaureate degree is conferred upon completion of thirty-four (34) credit hours of General Education courses, nineteen (19) credit hours of supporting courses, and seventy (70) credit hours of TAS courses.

**Consumer Sciences (CS)**

The Consumer Science program provides student knowledge in consumer affairs, business and economics, and communications. The program prepares graduates for jobs such as consumer credit specialists, consumer sales representatives, family financial specialists, and related services in industry, media, education, and government. A Baccalaureate degree is conferred upon completion of thirty-four (34) credit hours of General Education courses, forty-two (42) credit hours of supporting courses, and forty-nine (49) credit hours of CS courses.

**Faculty, Programs and contact information**

<b>Names</b>	<b>Titles/Rank</b>	<b>Program</b>	<b>Phone</b>
Mopelola Adegoke	Associate Professor	TAS	857-6445
Samuel A. Besong	Associate Professor & Chair	FNS	857-6440
Maggie Clausell	Associate Professor	FNS	857-6442
Carol C. Giesecke	DPD Program Director	FNS	857-6439
Jung-Lim Lee	Assistant Research Professor	Food Science	857-6448
Stephen Lumor	Assistant Professor	Food Science	857-6422
Jungmi Oh	Associate Professor	TAS	857-6466

**B.S. DEGREE IN CONSUMER SCIENCES (CS)**  
**Effective Fall 2010**

First Year					
Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition	3	ENGL-102	English Composition II	3
HMEC-191	University Seminar I	1	HMEC-192	University Seminar II	1
HMEC-100	Intro. to Family & Con. Sci.	2	xx-xxx	Art/Humanities I	3
HMEC-102	Concepts in Nutrition	2	BIOL-101	General Biology I	4
HMEC-110	Intro to Personal Finance	3	MVSC-100	Fitness and Wellness	2
MTSC-121	College Algebra	3	MTSC-122	Trigonometry	3
	Total Credits	14		Total Credits	16
Second Year					
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-218	Public Relations	3	xx-xxx	Art/ Humanities II	3
MTSC-125	Finite Math.	3	ENGL-200	Speech	3
ECON-201	Principle of Macroeconomics	3	ACCT-204	Principles of Accounting I	3
HIST-xxx	History	3	BUED-100	Micro-Computer Applications	3
xx-xxx	Literature	3	HMEC-121	Intro to Fam & Financial Plan	3
	Total Credits	15		Total Credits	15
Third Year					
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
HMEC-309	Consumer Economics	3	ECON-202	Principles of Microeconomics	3
MKT-315	Buyer Behavior	3	HMEC-315	Family Resource Mgmt.	3
HMEC-399	Human Environment Analysis	3	HMEC-355	Consumer Protection	3
ACCT-205	Principles Accounting II	3	GLST-395	Global Societies	3
MGMT-208	Statistics	3	ACCT-203	Account for Decision Mkg.	3
	Total Credits	15		Total Credits	15

Fourth Year					
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-300	Principles of Management	3	HMEC-413	*Indiv. & Fam. Development	3
MKT-300	Principles of Marketing	3	HMEC-419	Consumer Counseling	3
HMEC-415	Consumer Services	3	NTRS-202	Ethics	3
FIN-300	Business Finance	3	HMEC-424	**Special Prob-Field Experience	3
HMEC-427	Consumer Behavior in Fashion	3	HMEC-450	*Senior Seminar	1
MGMT-302	Legal Environment	3	xx-xxx	Restricted Elective	3
Total Credits		18	Total Credits		16

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 124
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**B.S. DEGREE IN FOOD & NUTRITIONAL SCIENCES (FNS)**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
HMEC-102	Concepts in Nutrition	2	HMEC-105	Princ. & Analysis of Food Prep.	3
HMEC-191	University Seminar	1	HMEC-192	University Seminar II	1
BIOL-101	General Biology I	4	BIOL-102	General Biology II	4
MTSC-121	College Algebra	3	xx-xxx	Art & Humanities Elective	3
HMEC-100	Intro. to Human Ecology	2	SCCJ-101 PSYC-201	Intro. to Sociology or Intro. to Psychology	3
Total Credits		15	Total Credits		17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
HMEC-250	Introduction to Food Science	3	HIST-xxx	History	3
ENGL-xxx	Literature	3	MVSC 202 or BIOL 307	Anatomy & Physiology II or Physiology	4
CHEM-101	General Chemistry I	4	CHEM-102	General Chemistry II	4
HMEC-215	Introduction to Nutrition	3	HMEC-409	Quantity Food System Mgmt	3
XXXX-xxx	Art & Humanities Elective	4	ENGL-200	Speech	3
Total Credits		17	Total Credits		16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
HMEC-315	Introduction to Dietetics	2	HMEC-325	Human Nutrition Assessment	2
BIOL-221	Microbiology	4	HMEC-401	*Field Experience in FNS	3
HMEC-335	Nutrition through Lifecycle	3	HMEC-308	Advanced Nutrition	3
NTRS-321 or MGMT-208	Biometrics or Intro. to Statistics	3	ECON-201 HMEC-309	Macroeconomic or Consumer Economics	3

CHEM-301	Organic Chemistry	4	HMEC-317	*Nutri. in Pub. Hlth. & Epidemio.	3
			MVSC-100	Lifetime Fitness & Wellness	2
	Total Credits	16		Total Credits	16
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
HMEC-xxx	FNS Restricted Elective	3	GLST-395	Global Societies	3
HMEC-324	*Community Nutrition	3	HMEC-455	Nutritional Biochemistry	3
HMEC-421	Institutional Food Science	3	HMEC-415	**Nutr. Education & Counseling	2
HMEC-428	*Research Methods	2	HMEC-450	*Senior Seminar	1
HMEC-425	Med. Nutrition Therapy I	3	HMEC-426	*Med. Nutrition Therapy II	3
			xx-xxx	Free Elective	2
	Total Credits	14		Total Credits	14

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 125
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**B.S. DEGREE IN TEXTILES AND APPAREL STUDIES (TAS)**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
XX-XXX	Art/Humanities I	3	HMEC-192	University Seminar II	1
HMEC-100	Intro. to Human Ecology	2	HMEC-204	Apparel Production & Evaluations	3
HMEC-191	University Seminar I	1	CHEM-100	Intro. to Chemistry	4
HMEC-103	Apparel Construction	3	MGMT-205	Management Process	4
MTSC-121	College Algebra (25-101)	3			
	Total Credits	15		Total Credits	15
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
HMEC-207	Intro. to the Fashion Industry	3	ENGL-xxx	Literature	3
MVSC-100	Fitness & Wellness	2	ENGL-200	Speech	3
HMEC-210	Intro. to Textiles	3	HMEC-202	Historic Consumer & Design	3
HIST-xxx	History	3	PSYC-201	General Psychology	3
MGMT-201	Managerial Communications	3	MIS-105	Micro Computer Applications	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
HMEC-205	Flat Pattern	3	HMEC-320	Advanced Textiles	3
HMEC-209	*Soc. Psy. of Clothing	3	HMEC-332	Visual Merchandising	3
HMEC-309	Consumer Economics	3	HMEC-402	*Field Experience in TAS	3
ACCT-204	Principles of Accounting I	3	GLST-395	Global Societies	3
ECON-201	Macroeconomics	3	ECON-202	Microeconomics	3
			MKT-300	Principles of Marketing	3
	Total Credits	15		Total Credits	18
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr

HMEC-307	Quantitative Merchandising	3	HMEC-413	Indiv. & Family Development	3
HMEC-427	Consumer Behavior in Fashion	3	HMEC-423	**Merchandising Assortment Planning & buying	3
ACCT-302	Legal Environment	3	HMEC-470	Textiles & Apparel in the Global Economy	3
XX-XXX	Art/Humanity II	3	HMEC-450	*Senior Seminar	1
XX-XXX	Restricted Elective	3	HMEC-xxx	TAS Electives	3
			xx-xxx	Restricted Elective	3
	Total Credits	15		Total Credits	16

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 123
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## **HUMAN ECOLOGY (HMEC)**

### **HMEC-100. INTRODUCTION TO HUMAN SCIENCES**

**2:1:1**

(CS). A survey of Human Sciences as a field of study, the course is designed to acquaint students with the history, philosophy, organizational framework, growth, expansion, and present status of Human Sciences. The course involves evaluation and interpretation of the historic human experience and the analysis of current human activities in relation to clothing, fashion, housing, food, and nutrition. Two (2) lectures per week and the successful completion of supervised field experiences.

Credit, two hours.

### **HMEC-101. PERSONAL AND FAMILY RELATIONS**

**3:3:0**

(CS). A study of personal problems and relationships in families. Periods of adjustment throughout the life cycle will be considered. The functions of courtship and dating as basis for mate selection. Consideration of traditional and alternative forms of marriage. Recognition and evaluation of personal and social conditions placing stress on the family. Three (3) lectures per week.

Credit, three hours.

### **HMEC-102. CONCEPTS IN NUTRITION**

**2:1:1**

(FNS). Basic principles of nutrition applied to current issues in health maintenance. Areas of discussion include but are not limited to diet planning, individual food choices, dietary standards and guidelines, nutrients needs, diet-related diseases, weight control, fitness, and disease prevention. Emphasis is placed on improving personal food habits as an important part of health and fitness. For students with little or no science background. Open to non-majors. One (1) one-hour lecture and two-hour lab per week.

Credit, two hours.

### **HMEC-103. APPAREL CONSTRUCTION**

**3:1:3**

(TAS). Emphasis would be placed on selection of attractive clothing and patterns, comparative shopping, alterations, fitting, and basic sewing techniques. One lecture and two laboratory periods per week. Open to students in other disciplines. One (1) lecture and three (3) laboratory periods per week.

Credit, three hours.

### **HMEC-105. PRINCIPLES AND ANALYSIS OF FOOD PREPARATION**

**3:1:2**

(FNS). The course deals with the scientific principles related to basic food preparation and relates nutrition to food selection, preparation, and preservation. Consideration of how cooking, storing, and processing impacts the safety, nutritional value, and sensory characteristics of food. One (1) lecture and two (2) laboratory periods per week.

Credit, three hours.

### **HMEC-110. INTRODUCTION TO PERSONAL FINANCIAL PLANNING**

**3:3:0**

(TAS). Personal financial planning within a systems framework. Includes the financial planning process within the context of the life cycle. An emphasis on careers in financial planning and counseling fields. Application of information to real life situations.

Credit, three hours.

### **HMEC-121. INTRODUCTION TO FAMILY FINANCIAL PLANNING**

**3:3:0**

(CS). The study of family financial management during different stages of the family life cycle, and at various income levels. Indicators, causes, and impact of family financial problems on family well being. Topics considered will include the use of budgeting and record keeping to achieve family economic goals, the role of credit, and the need for financial counseling; economic risks and available protection; and alternative forms of savings and investments.

Credit, three hours.

**HMEC-191. UNIVERSITY SEMINAR I – HUMAN ECOLOGY****1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

**HMEC-192. UNIVERSITY SEMINAR II – HUMAN ECOLOGY****1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

**HMEC-202. HISTORIC COSTUME AND DESIGN****3:3:0**

(TAS). This is a study of the development of costumes from primitive to modern times with emphasis on the historic and cultural settings. It looks at how fashion repeats itself and inspires today's designers. Open to students in other disciplines. Three (3) lectures per week.

Prerequisites: HIST-XXX.

Credit, three hours.

**HMEC-204. APPAREL PRODUCTION AND EVALUATION****3:1:2**

(TAS). Emphasis will be placed on understanding the clothing needs of the family and of individuals with special clothing needs. It will include a study of buying principles, wardrobe planning, and clothing care. The students will construct garments for family members and/or individuals with special clothing needs. One (1) lecture and three (3) laboratory periods per week. Open to students of other disciplines.

Prerequisites: HMEC-103.

Credit, three hours.

**HMEC-205. FLAT PATTERN DESIGN AND DRAFTING****3:1:2**

(TAS). The course is a study of the fundamentals of flat pattern making through the drafting of patterns with emphasis on designing and fitting for the individual. One (1) lecture and two (2) laboratory periods per week.

Prerequisites: HMEC-103, HMEC-204.

**HMEC-207. INTRODUCTION TO THE FASHION INDUSTRY****3:3:0**

(TAS). In this course the student examines the principles of fashion, the fashion industry, fashion merchandising and buying, and visual merchandising. Three (3) lectures per week. Open to students in other disciplines.

Credit, three hours.

**HMEC-209. SOCIAL PSYCHOLOGY OF CLOTHING****3:3:0**

(TAS). The course is a study of clothing as a social, psychological, economic force including cultural patterns, behavioral variations, changing needs, technical development, and acquisition of clothing. Three (3) lectures per week. Open to students of other disciplines.

Credit, three hours.

**HMEC-210. INTRODUCTION TO TEXTILES****3:2:1**

(TAS). A basic study of the production and utilization of the natural and the man-made fibers as they relate to end use performance of consumer textile products. Concentration will be on the fiber, yarn structure, and fabric construction methods (weaves). Two (2) lecture and two (2) laboratory periods. Open to students of other disciplines.

Credit, three hours.

**HMEC-213. AGRICULTURE AND THE FASHION INDUSTRY****4:4:1**

The course provides adequate exposure of students to all facets of the fashion industry raw materials and environmental consequences of raw materials production – cotton grading and sales, manufacturing, the clothing retailers, the consumers. The entire cycle of the fashion industry will be discussed through field trips to cotton farms, textile production, and merchandising facilities to get hand-on experiences. Three (3) hours of lecture per week and one (1) hour of lab.

Credit, four hours.

**HMEC-215. INTRODUCTION TO NUTRITION****3:3:0**

(FNS). General understanding of the role of gastrointestinal tract in relation to digestion and absorption of nutrients: carbohydrate, fat, protein, vitamins, and minerals. Emphasis is placed on nutrient functions, human nutritional requirements, food sources, and role of nutrition in diet-related diseases. Individual library research in some area related to diet-related diseases.

Prerequisites: HMEC-102, BIOL-101, BIOL-102, CHEM-101, CHEM-102.

Credit, three hours.

**HMEC-220. INTRODUCTION TO SPORT NUTRITION****2:2:0**

(FNS). Nutrient utilization by muscle and cardiovascular system during exercise. Impact on physiology of ergogenic aids and various dietary supplements ingested by athletes, presenting an overview of the involvement of these components in fulfilling energy/recovery needs for continual and progressive athletic performance.

Prerequisites: HMEC-102, HMEC-215, BIOL-101, BIOL-102, CHEM-101, CHEM-102.

Credit, two hours.

**HMEC-250. INTRODUCTION TO FOOD SCIENCE****3:3:0**

(FNS). Introduction to the composition, chemical, and physical properties of foods; interaction, reaction, and evaluation of foods due to formulation, processing, and preparation. Identification of changes in food resulting from preparation and processing procedures. Evaluate food products quality using sensory quality standards. Modification of recipes and incorporate to specific diets.

Prerequisites: HMEC-102, HMEC-105, CHEM-101, CHEM-102.

Credit, three hours.

**HMEC-260. FOOD MICROBIOLOGY****3:3:0**

(FNS). Introduction to the inherent risks and safety of the food supply and the use of public policy, food safety measures, and food technology such as thermal processing and irradiation to reduce those risks. The course will survey microbiological, chemical and environmental hazards, and government and industry controls used to insure food. The course will emphasize government regulations with respect to adulteration, food safety, and misbranding.

Prerequisites: HMEC-105, BIOL-221.

Credit, three hours.

**HMEC-306. VITAMINS AND MINERALS IN HUMAN****3:3:0**

Water and fat-soluble vitamins, macrominerals, and trace minerals in human nutrition. Emphasis includes absorption, metabolism, food sources, dietary recommendations, deficiencies, and nutrient interactions. Implications for health promotion and disease prevention.

Prerequisites: HMEC-215.

Credit, three hours.

**HMEC-307. QUANTITATIVE MERCHANDISING INVENTORY ANALYSIS****3:3:0**

Introduction to basic merchandising mathematic principles used in the retailing of apparel and other fashion products. Open to students in other disciplines. Prerequisites: HMEC-207

Credit, three hours.

**HMEC-308. ADVANCED NUTRITION****3:3:0**

(FNS). Study of Cells and organ systems involved in nutrient metabolism. Detailed understanding of the role of gastrointestinal tract in relation to nutrient metabolism: carbohydrate, fat, protein, vitamins, and minerals with emphasize on how metabolic pathways interrelate. Discussion on nutrient functions and role of nutrition on genetic, metabolic, and diet-related diseases.

Prerequisites: HMEC-215, BIOL-101, BIOL-102, CHEM-101, CHEM-102, BIOL-207.

Credit, three hours.

**HMEC-309. CONSUMER ECONOMICS****3:3:0**

(CS). Study experimentation and discussion of problems, issues, and trends in consumerism, consumer behavior, rights, and responsibilities. Students will investigate consumer concerns and engage in comparative shopping for family goods and services. Consideration is also given to financial planning as it relates to the individual and the family. Three (3) lecture periods per week.

Credit, three hours.

**HMEC-310. INTRODUCTION TO DIETETIC PRACTICES****2:2:0**

(FNS). Introduction to the practice of dietetics in medical centers, residential care centers, ambulatory care clinics, and community service agencies. Emphasis on nutrition screening, assessment, planning, intervention, evaluation, and documentation. One (1) lecture and two laboratory hours per week.

Prerequisites: HMEC-215, HMEC-300, HMEC-308.

Credit, two hours.

**HMEC-311. COMPUTER APPLICATIONS IN APPAREL DESIGN AND PRODUCTION****3:1:2**

(TAS). Emphasis on rendering clothing character, fabrics, and fashion details using various media. Introduce a flat sketching via computer. Focused on advanced pattern making techniques using Computer-Aided Design Method. One hour of lecture and two hours of lab.

Prerequisites: HMEC-103, HMEC-204, HMEC-205.

Credit, three hours.

**HMEC-312. DESIGNING BY DRAPING****3:1:2**

(TAS). The course is a study of the fundamentals of draping with emphasis on the creation and construction of original garment designs. One (1) lecture and two (2) laboratory periods per week.

Prerequisites: HMEC-103, HMEC-204, HMEC-205.

Credit, three hours.

**HMEC-315. FAMILY RESOURCE MANAGEMENT****4:3:3**

(CS). The course focuses on management of human and material resources; application of abilities, skills, and techniques of homemaking and decision-making in the use of money, time, energy, and personal resources to solve problems related to planning, purchasing, preparing, and serving family meals, housekeeping practices, group relationships, social activities, and recreation. Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: Family and Consumer Sciences courses in all areas.

Credit, three hours.

**HMEC-317. NUTRITION IN PUBLIC HEALTH AND EPIDEMIOLOGY****3:3:0**

(CS). Study of the applied and preventive aspects of nutrition as related to public health. Students do combine their knowledge of nutrition science with competencies in education, behavioral science, management, and public policy to enhance the nutritional status of individuals and populations. Students do conduct research relating diet to health/disease outcomes. Methodological issues related to dietary assessment for clinical/metabolic and epidemiological research. Topics include: variation in diet; measurement error and correction for its effects; advantages and limitations of different diet-assessment techniques; design and development of a food-frequency instrument; and total energy-intake analyses.

Credit, three hours.

**HMEC-320. ADVANCED TEXTILES****3:1:2**

(TAS). A study of the physical properties of textile fibers, yarns, fabrics, and finishes with emphasis on recent scientific and technological developments in textile testing and analysis. Attention is given to fabric testing for end use and quality control. ASTM and AATCC standard testing methods are used. One (1) lecture and two (2) laboratory periods per week.

Prerequisites: HMEC-210, CHEM-100.

Credit, three hours.

**HMEC-321. METHODS IN HHUMAN ECOLOGY****2:2:0**

(CS). The course provides an orientation to the teaching profession and to vocational education for pre-service Family and Consumer Sciences students. The major concepts included are: History and Philosophy of Family and Consumer Sciences; Personal and Professional Development; Vocational Home Economics Programs; Instructional Planning; The Teaching Learning process; and Instructional Techniques and Materials. Some attention is given to computer assisted instruction in home economics education. A supervised field experience of twenty (20) hours in the public schools is part of the course requirements. Three (3) lectures per week.

Credit, three hours.

**HMEC-324. COMMUNITY NUTRITION****3:3:0**

The focus is on economic, geographic, social, and educational nutrition intervention with emphasis on how to effectively assess specific populations and differences between clinical and community approaches to health. Application of nutrition knowledge in the solution of problems related to health promotion and experiences in community agencies. General understanding of current status and legislation of community nutrition programs, community needs and resources, program planning, funding, and evaluation.

Prerequisites: HMEC-215, HMEC-300, HMEC-308, HMEC-310.

Credit, three hours.

**HMEC-325. HUMAN NUTRITION ASSESSMENT****2:2:0**

(FNS). Methods and techniques of nutritional screening and assessment. Discussions include, but are not limited to evaluation of dietary intake, anthropometric measurements, biochemical tests, and clinical assessment.

Prerequisites: HMEC-102, HMEC-215, BIOL-101, BIOL-102, CHEM-101, CHEM-102.

Credit, two hours.

**HMEC-330. NUTRITION AND AGING****2:2:0**

(FNS). Focuses on topics related to the effects of aging on nutrient metabolism, food and nutrient requirements, nutrition screening and assessment of nutritional status, nutrition intervention and food assistance programs, and nutrition related disorders of older adults. Food and nutrition legislation for the elderly--theory and implementation. Nutritional implications of acute and chronic disease states common among the elderly. Discussion on dietary supplements, alcohol abuse, and nutrient-drug interaction.

Prerequisites: HMEC-215, HMEC-300, HMEC-308, BIOL-101, BIOL-102, CHEM-101, CHEM-102, BIOL-207.

Credit, two hours.

**HMEC-332. VISUAL MERCHANDISING****3:3:0**

(TAS). A study of the components and theories of visual merchandising. Students will learn to analyze a store's image and layout as it relates to merchandise techniques. The emphasis will be on the practical application of planning, execution, and evaluation of merchandise displays, and store presentation.

Prerequisites: HMEC-207.

Credit, three hours.

**HMEC-335. NUTRITION THROUGH LIFE-CYCLE****3:3:0**

(FNS). Exploration of the impact of nutrition on the progress and outcomes of pregnancy, and on the growth and development of the infant, child adolescent, adult, and older adult. Understand nutritional changes throughout the lifecycle including lactation and body composition. The importance of establishing good food habits early in life as a basis for lifetime health and fitness is stressed, and emphasis is placed on the psycho-social aspects of food and eating behavior at every stage.

Prerequisites: HMEC-215, HMEC-300, HMEC-308.

Credit, three hours.

**HMEC-345. MATERNAL AND INFANT NUTRITION****3:3:0**

(FNS). Application of principles to maternal, infant, child, and adolescent nutrition. Impact of nutrition on growth, development, and health of young children. Assessment of nutritional status, changing needs and eating patterns; the link between nutrition, dietary practices, and behavior; and translating current nutrition information into effective nutrition education strategies for children. Emphasis on dietary supplements, alcohol and substance abuse, and nutrient-drug interaction.

Prerequisites: HMEC-215, HMEC-300, HMEC-308.

Credit, three hours.

**HMEC-355. CONSUMER PROTECTION****3:3:0**

An in depth review of the relationship between the consumer and federal and state law and policy. Includes the study of both consumer protection legislation and laws which define the consumer's rights and responsibilities. Will consider the operation of government agencies and courts in various consumer areas as well as avenues of redress on the part of the consumer. Consumer rights and responsibilities in the private and public sector of the economy. Consideration of government, non-profit, and corporate responses to consumer problems.

Credit, three hours.

**HMEC-399. HUMAN ENVIRONMENTAL DESIGN AND ANALYSIS****3:3:0**

(CS). Analysis of housing, home furnishing, and equipment needs, with an emphasis on types and quality of home furnishings of residential and institutional settings, as related to affect on human performance and emotions, functionality, durability, and aesthetics (design, space, color, lighting, line). Selection criteria for various lifestyles and populations with regard to health, comfort, and affordability. Environmental concerns such as energy use, and waste production are also discussed. Three (3) lectures per week and twenty (20) hours of field experience is required.

Credit, three hours.

**HMEC-401. FIELD EXPERIENCE IN DIETETIC PRACTICE****3:0:3**

(FNS). Supervised foodservice production and management experience in a community and healthcare facility including experience in food planning, production, distribution, and service; environmental issues; production scheduling; and marketing. Prior approval of field position, 120 hours of work experience. Written reports required.

Prerequisites: Senior status in Dietetics.

Credit, three hours.

**HMEC-402. FIELD EXPERIENCE IN TAS****3:0:3**

(TAS). A supervised on-site participatory experience in a retail clothing/fabric business, cooperative experience or other community based program related to the student's professional goal. Opportunity is provided for independent study and investigation in a problem area oriented business. The course is offered at the end of junior or first semester of the senior year and students are required to complete a minimum of 120 hours of work experience in a retail clothing/fabric business of their choice. A required course for students majoring in Textiles and Fashion Merchandising.

Prerequisites: All required courses in the curriculum except HMEC-410, a "C" grade or better in each Textiles and Apparel Studies course and a 2.00 GPA.

Credit, three hours.

**HMEC-405. ADVANCED APPAREL PRODUCT DEVELOPMENT****3:1:2**

(TAS). The emphasis of this course is on advanced clothing construction techniques including tailoring a suit or coat. One (1) lecture and two (2) laboratory periods per week. Focused on all phases of apparel product development for a targeted market from conceptualization through execution of sample garments for mass production.

Prerequisites: HMEC-103, HMEC-204, HMEC-205.

Credit, three hours.

**HMEC-407. EXPERIMENTAL FOODS****3:2:1**

Scientific principles involved in manipulating ingredients for comparative methods in food preparation and the judging of the product using various sensory methods. Two (2) lectures and one (1) three-hour laboratory per week.

Prerequisites: HMEC-105, HMEC-211, CHEM-101, CHEM-102.

Credit, three hours.

**HMEC-409. QUANTITY FOOD PURCHASING AND SYSTEM MANAGEMENT****3:1:2**

(FNS). Principles of quantity food production and delivery systems; menu planning, development, and purchasing design; and safety, sanitation, and technical operations in a food service system. Review of Food systems, computer applications in food service, and environmental issues. Also provides an in-depth study of meal planning, food selection, purchasing, and meal preparation for individuals and families of different income levels, ethnic background, and age levels. Some emphasis will be given to research, legislation affecting food buying practices, and trends in food technology and agriculture. Attention will be given to food demonstration techniques and microwave cooking principles and techniques. Recipe development including recipe writing and evaluation will also be emphasized. One (1) lecture and two (2) laboratory periods per week.

Prerequisites: HMEC-105.

Credit, three hours.

**HMEC-410. PROBLEMS IN MERCHANDISING OF CLOTHING AND TEXTILES****3:3:0**

(TAS). An opportunity to investigate a problem or area of special interest; or a study of problem solving using case studies; or a semester problem of merchandising enterprises. The student will engage in an approved Independent Study under the guidance of the Instructor.

Credit, three hours.

**HMEC-411. FAMILY FINANCIAL MANAGEMENT****2:2:0**

(CS). Study and application of principles of family financial resources. Primary focus will be on understanding factors influencing the development of a personal financial program, financial decisions, foundations for planning a financial program, attending to taxes, budgeting, managing credit, savings, and investments. Three (3) hour lectures are required. Some laboratory sessions may be held.

Credit, three hours.

**HMEC-413. INDIVIDUAL AND FAMILY DEVELOPMENT****3:3:0**

(TAS). The course will focus on families and individual development in Family and Consumer Sciences. Will emphasize the interdisciplinary approach to solving the problems encountered in families and other interpersonal relationships. The course will build upon sound theoretical approach such as Family System Theory, Developmental Theory, and Conflict Resolution Theory. Different approaches to developing skills in conflict resolution, crisis, and stress management in families and in other interpersonal relationships will be explored. . Three (3) hour lectures are required.

Credit, three hours.

**HMEC-414. FASHION FORECASTING AND TREND****3:3:0**

(TAS). An Introduction to trend research and presentation in the fashion industry. Emphasis on the role of advertising and other promotional mix elements that support in integrated marketing and communication program in the textile and apparel industry.

Prerequisites: HMEC-103, HMEC-204, HMEC-207.

Credit, three hours.

**HMEC-415. CONSUMER BEHAVIOR IN FASHION****3:3:0**

Relates consumer behavior concepts specifically to fashion products and processes, integrates the rapidly-evolving domain of fashion e-commerce, uses numerous of fashion ads to explore how fashion companies attempt to communicate with their markets. Students will learn how consumer behavior shapes business ethics, social responsibility, and environmental issues. Students will also learn how consumer behavior in Fashion probes the psyche of the American consumer and how models of the consumer behavior underscore the complex interrelationships between the individual consumer and his/her social reality.

Credit, three hours.

**HMEC-419. CONSUMER COUNSELING****3:3:0**

(CS). Family financial issues are studied with an emphasis on the role of the Financial Counselor. Designed to increase awareness and knowledge of the characteristics of persons in serious financial difficulties, complexity of factors affecting such situation, desirable relationships between the helper and those helped, and awareness of community resources. . Three (3) hour lectures are required.

Credit, three hours.

**HMEC-420. RESEARCH METHODS IN FAMILY AND CONSUMER SCIENCES****1:1:0**

(HE). An overview of research methods, the interpretation, and use of research data. A discussion of current research on topical issues in Family and Consumer Sciences, including Nutrition, Education, Clothing, Textiles, Consumer Economics, and Resource Management. One (1) lecture per week.

Credit, one hour.

**HMEC-421. INSTITUTIONAL FOOD SERVICE****3:3:0**

Basic principles and theories of food service systems; menu planning, development, standardization, adjustment, costing of quantity recipes; food procurement and quantity food production; reviews of food systems; computer applications in food service; environmental issues, HACCP; quality reviews, complying with USDA and JCAHO standards for institutional food service.

Credit, three hours.

**HMEC-422. FOOD SERVICE SYSTEMS MANAGEMENT****3:3:0**

The course will examine the organization, administration, and application of managerial techniques in food service systems; production, distribution, selection, and storage of food commodities; specification writing; personal training; job analysis; moral; motivation; and computer application.

Credit, three hours.



**HMEC-423. MERCHANDISING ASSORTMENT PLANNING AND BUYING****3:3:0**

(TAS). Computer simulation models are used to develop formulation and application for merchandising management strategies. Spreadsheets are used for the analysis of assortment planning and inventory management of fashion products.

Prerequisites: MIS-105, HMEC-207, HMEC-307.

Credit, three hours.

**HMEC-424. SPECIAL PROBLEMS IN FAMILY AND CONSUMER SCIENCES****3:3:0**

Supervised individual reading on special subjects and research on a special topic in textiles and apparel, including oral presentation and preparation of a scholarly paper covering the research. Under the guidance of a faculty member in the area, a student will engage in an approved Independent Study activity, dependent upon need, and the availability of faculty.

Prerequisites: A junior or senior status majoring in any area of Human Ecology may enroll in this independent student study course with approval of the Advisor and the Department Chair.

Credit, one to three hours.

**HMEC-425. MEDICAL NUTRITION THERAPY I****3:3:0**

(FNS). Nutrition assessment and support. Pathology, management, and nutrition therapy for disorders of the gastrointestinal, immune and respiratory systems, and cancer. Emphasis on nutrition screening, assessment, planning, intervention, and evaluation of patients/clients with hypermetabolic and gastrointestinal disorders; diseases of the liver, gallbladder and pancreas diseases, cancer, and HIV/AIDS.

Prerequisites: HMEC-215, HMEC-308, HMEC-335, Senior status in Dietetics.

Credit, three hours.

**HMEC-426. MEDICAL NUTRITION THERAPY II****3:3:0**

(FNS). Nutrition assessment and support Pathology, management, and nutrition therapy for disorders of the cardiovascular, endocrine, urinary, and neuromuscular and skeletal systems. Nutrition intervention for inborn errors of metabolism, diabetes, eating disorders, and obesity. The importance of nutrition screening, assessment, planning, intervention, and evaluation of patients/clients with disorders of the cardiovascular, endocrine, urinary, and neuromuscular and skeletal systems is stressed.

Prerequisites: HMEC-425, Senior status in Dietetics.

Credit, three hours.

**HMEC-427. NUTRITION EDUCATION AND COUNSELING****2:2:0**

(FNS). Application of theories and principles of learning, behavior change, and instructional methods to nutrition education. Inter-disciplinary team approach to individual and group client-centered nutrition counseling which includes assisting and advising clients on dietary information. Skills and techniques based on nutrition counseling theories that are most useful to registered dietitians in enhancing quality of life and planned nutrition intervention.

Prerequisites: Senior status in Dietetics.

Credit, two hours.

**HMEC-428. RESEARCH METHODS****2:0:2**

(FNS). Discussion and experience with selected methods and techniques in nutrition research. Laboratory experience in chemical and biochemical methods of analysis of nutritional status and biochemical parameters.

Prerequisites: Senior status in Food and Nutrition.

Credit, two hours.

**HMEC-430. OBESITY: THEORY AND PRACTICAL APPLICATIONS****3:3:0**

(FNS). Discussion of the etiology, physiological, pathophysiological, and psychological impacts, and multidisciplinary assessment and treatment modalities of obesity for persons throughout the life cycle.

Prerequisites: Physiology, CHEM-403, and an advanced Nutrition course.

Credit, three hours.

**HMEC-450. SENIOR SEMINAR****1:1:0**

(HE). Critical reading, evaluating, and reporting from pertinent current nutrition journals and other publications. Written report and oral presentation required.

Prerequisites: Senior status in Human Ecology programs.

Credit, one hour.

**HMEC-454. NUTRITION AND IMMUNE SYSTEM****2:2:0**

(FNS). The course focuses on the roles of specific nutrients in maintaining the immune response and host protection against infection. Influence of various factors, such as exercise and ageing, on the interaction between nutrition and immune function. The immunological effects of changes throughout the life cycle and public health policy implications.

Prerequisites: HMEC-215, BIOL-101, BIOL-102.

Credit, two hours.

**HMEC-455. NUTRITIONAL BIOCHEMISTRY****3:3:0**

(FNS). The course focuses on the fundamental understanding of biochemical, physiological, cellular, and molecular processes in nutrition as they apply to experimentation with human or animal subjects. Biochemistry and nutrition are inextricably linked, from the structure of the molecules in food to the processes by which nutrients are metabolized and digested.

Prerequisites: HMEC-215, HMEC-308, CHEM-301, CHEM-302.

Credit, three hours.

**HMEC-460. TOPICS IN GLOBAL NUTRITION****2:2:0**

(FNS). Global Nutrition Issues will broaden students' understanding of nutrition. The course includes a study of the history of food and hunger, and the global nature of our food systems. Food and culture, as well as the impact of our food decisions on the environment will be examined. Agricultural production, world populations relative to food supply, hunger, biotechnology, and the safety of our food supply will be discussed.

Credit, three hours.

**HMEC-470. TEXTILES AND APPAREL IN THE GLOBAL ECONOMY****3:3:0**

(TAS). Global inter-dependence that influences production, distribution, and consumption of goods and services. Examine diverse roles of government, industry and the US textile complex, and the US market within an international context. Three hour lecture required.

Prerequisites: HMEC-207, HMEC-307.

Credit, three hours.

**HMEC-475. NUTRIGENOMICS****3:3:0**

(FNS). Interactions between nutrients and gene expression, including heredity, gene regulation, metabolic disease, developmental abnormalities, and molecular techniques. Focuses on the cellular and molecular basis of nutrition-related diseases and nutrient-gene interactions. Two hours of lecture and one one-hour laboratory per week.

Prerequisites: HMEC-308, HMEC-455.

Credit, three hours.

# COLLEGE OF EDUCATION, HEALTH AND PUBLIC POLICY

**Interim Dean:** Dr. John Austin

The academic departments are Education, Nursing, Public and Allied Health Sciences and Social Work, and include programs in Education, Nursing, Social Work, Health Promotion and Movement Science.

Building on the mission of the University, the mission of the College of Education, Health and Public Policy is to provide professional and interdisciplinary community-focused education, training, research, and related services that promote the health and well-being of individuals and communities. The strategic vision of the college is:

- To excel in delivering state of the art educational programs that develop caring professionals who will serve the global community with integrity and ethical standards.
- To become the College of choice for community engaged partnerships focused on serving the needs of diverse populations.
- To develop a research and scholarship agenda that engages the global community and integrates theory with practice.

## DEPARTMENT OF EDUCATION

**Education Department Chair:** Dr. Rayton Sianjina  
**Director, Division of Graduate Studies:** Dr. Rayton Sianjina  
**Director, Clinical and Field Experiences:** Dr. Cecil Clark  
**Director, Center for Teaching and Learning:** Dr. Rebecca Fox-Lykens  
**Director, Early Childhood Laboratory School:** Mrs. Constance Williams  
**Technology Analyst:** Ms. Charmaine Whyte  
**Senior Secretary:** Ms. Sabrina Bailey  
Ms. Diane Weller  
Ms. Tirzah Grimes, Graduate Studies

**Professors:** A. Dujari, G. Kibria, W. McIntosh, R. Sianjina (Chair)  
**Associate Professors:** C. Aleong, C. Clark, N. Clark, J. Falodun, D. Falvo, R. Fox-Lykens, B. Friedland, J. Hill, R. Martin, P. Atttoh  
**Assistant Professors:** E. Cornwall, L. Harrison, E. Marker, K. K. Kim, N. Rathee, R. Phillips

The Education Department has the following offices, centers, and divisions that support the unit's activities. Those areas include the Office of Clinical and Field Experiences, the Center for Child Development, the Center for Teaching and Learning, and the Division of Graduate Studies.

Consistent with the University's Mission, the Education Department is committed to excellence in teaching, research and service. The Education Department provides comprehensive curricula that address applied pedagogy and leadership in education. Development of competency in the use of instructional technology, critical thinking, and problem-solving skills are infused throughout undergraduate and graduate programs within the context of acquiring general and content specific knowledge. Programmatic emphasis is given to the myriad needs of diverse communities and to the needs of a global society.

The Education Department provides curricula for the preparation of teachers in the following areas: early childhood education, elementary, middle level, special education (elementary and secondary), science, and physical education. Curricula are also provided for advanced studies in curriculum and instruction, educational leadership, science education, special education, Master of Arts in Teaching and the areas of adult literacy and basic education. The Education Department is part of the Professional Education Unit, which serves as the administrative body for **all** teacher education programs at Delaware State University.

The Professional Education Unit has the following guiding principles which give focus to the total teacher education program:

- Every candidate should be proficient in the content area in which he/she elects to specialize.
- Every candidate should have a professional disposition and a broad spectrum of instructional knowledge, skills, and dispositions to teach effectively within a diverse society.
- Every candidate should embrace teaching as a dynamic process which is knowledge-based, comprehensive and continuous.
- Every candidate should possess a wide range of communication skills.

The undergraduate and advanced programs are fully accredited by the National Council for the Accreditation of Teacher Education (NCATE).

In order to bring focus to the guiding principles of the teacher education program at Delaware State University, the Professional Education Unit developed the acronym; ***DIRECT*** as its standards to assist

students, faculty, and the community in understanding the Professional Education Unit's program objectives. The following identifies the ***DIRECT*** paradigm:

## **DIRECT**

**D** = **Diversity**

**I** = **Interpersonal communication**

**R** = **Reflection**

**E** = **Effective Teaching and Assessment Strategies**

**C** = **Content and Pedagogical Knowledge**

**T** = **Technology**

## FIELD EXPERIENCES

Early Field Experiences (EFE) is designed to assist students with linking pedagogical theories to practice in P-12 schools. There are four (4) phases of field experiences designed to give students a range of experiences with diverse populations, diverse age groups, and in diverse settings. Field experiences provide teacher candidates opportunities to observe students and teachers in classroom settings; to practice teaching and classroom management strategies (specialized practica); and to integrate content, strategies and theories into practice within student teaching (senior capstone experience). Students are assigned field experiences according to specific education courses and specific areas of specialization. ***Failure to complete the field experience in required courses will be reflected in the student's final grade.*** Transportation to field placements is the responsibility of the student. However, as much as possible, the Education department attempts to assist students with transportation. Specification of numbers of hours for field placement is listed within the course descriptions and within the specific academic departments.

## EARLY CHILDHOOD LABORATORY SCHOOL

The Education Department operates an infant and toddler program and an all-day preschool and kindergarten program for three (3), four (4), and five (5) year old children. The laboratory school is fully staffed by personnel qualified to provide a wholesome learning experience with developmentally appropriate activities. The school is a resource for Teacher Education Programs and related Departments needing this age-group field placement. The well equipped facility has a cluster of five (5) classrooms and a private observation room for use by students of the University and parents of the children. Two (2) nutritious snacks and a hot lunch are provided daily by a dietitian cook. The number of children admitted to the laboratory school is limited. There is a yearly fee for children enrolled in the program.

## TEACHER EDUCATION PROGRAM REGULATIONS

### Admission to Teacher Education Program

#### General Admission Regulations:

1. All students seeking admission to the Teacher Education Program (TEP) must file an application with the Council for Professional Education (CPE). Application forms and other related information is available in the Education Department (Chair's office or Office of Student Services), located in the Education and Humanities Building. (The Teacher Education applicant must be recommended by a faculty member, Academic Advisor, and respective Department Chair on the application form).
2. All applicants must have a cumulative grade point average of 2.5 or higher on a 4.0 scale.
3. Students are expected to **take** PRAXIS I by the **end** of their **freshman** year and **pass** PRAXIS I by the end of their **sophomore** year. Satisfactory performance on the PRAXIS examination is a prerequisite for admission to the Teacher Education Program.
4. Each applicant will present their introductory portfolio to a panel of faculty members for review.
5. The Chair of the Education Department with a designated committee will review each application for admission and submit a list of students for final approval to the Council for Professional Education. Each applicant will be informed in writing of the action taken by the Council.
6. Students admitted to the Teacher Education Program shall receive an identification card, which must be presented to the Instructor for each 300-400 level methods course.
7. All declared education majors will have an assigned Advisor in their respective Departments.
8. Students who do not meet the admission requirements (1 through 7) must:
  - a. Meet with his/her Advisor to develop a TEP Success Plan.
  - b. Sign a contract that specifies the plan. Both the Advisor and Department Chair must also sign the plan.
  - c. File the Plan with the Education Department (Chair's office).

- d. Adhere to the requirements as specified in the TEP Success Plan.
- 9. Re-admission to the Teacher Education Program encompasses the following:
  - a. A formal application for re-admission to the program.
  - b. Documentation of successful completion of the TEP success plan.
  - c. A written request as to why he/she should be re-admitted.
- 10. Applicants meeting the Specific Admissions Criteria will be approved for admission to the Teacher Education Program.
- 11. The Council for Professional Education may withdraw a student from the Teacher Education Program at any time based upon one (1) or more of the following reasons:
  - a. Unsatisfactory academic progress.
  - b. Disciplinary action by the institution against the applicant because of conduct.
  - c. Failure to remove deficiencies or to maintain standards of the Teacher Education Program.

## **Specific Admission Criteria**

### **Criteria 1: General Education Prerequisites**

The applicant must have earned a grade of —C or better in the following courses: English 101, 102, 200, (201 and 202) **or** (205 and 206), and Mathematics 105, 106 and 205 (if applicable) or the appropriate mathematics in the content area.

The applicant must have completed or will be completing forty-five (45) semester hours of college credit at the time of application.

### **Criteria 2: PRAXIS I & II Requirement**

Skills Test by the end of the freshman year (30-36 credit hours) and pass the PRAXIS I by the end of the sophomore year as a prerequisite for admission to the Teacher Education Program. If unsuccessful in taking the PRAXIS I Skills Test, students must meet with their Academic Advisor to enroll in the TEP Success Plan. Official test scores must be submitted to the College of Education's Director of Student Services and the Office of Testing. Content teacher education majors must submit a copy of scores to their respective Department Chair. Scores obtained on the PRAXIS I Skills Test shall become a part of the student records and used for data analysis. The PRAXIS I Skills Test is administered at Delaware State University for students several times each year.

Effective Spring 2006 semester, PRAXIS II, a test of content knowledge, must be satisfactorily passed prior to receiving placement for student teaching.

### **Criteria 3: (GPA) Requirements**

Teacher Education majors are required to maintain a GPA of 2.5 or better in order to be admitted into the Teacher Education Program. The required GPA must be maintained in order to apply for the student teaching capstone. After admission to the Teacher Education Program, students must maintain a GPA of 2.5 or higher in all method courses in the Education Department. Students in content areas must maintain a 2.5 GPA in method courses in their respective Department.

## **Specific Admission Criteria**

### **Criteria 4: Transfer Students**

Transfer students must follow the procedures outlined in the University catalog for "Admission: Transfer Students for Advanced Status." Transfer students must meet with the appropriate chair and submit an evaluation of transfer credits from the Records Office. The appropriate chair will review acceptable credits for the selected program. Students transferring with sixty (60) or more semester hours from

another college must apply for admission to the Teacher Education Program provided that he/she has passed all three (3) areas of PRAXIS I, at the time that they are admitted to the University.

#### **Criteria 5: Returning Students**

Returning students with five (5) or more years of absence must retake method courses. In addition, the returning student's transcript will be evaluated and the student may be required to take or retake additional courses.

#### **Criteria 6: Portfolio Presentation**

All students who wish to enter the Teacher Education Program must present their introductory portfolio to a panel of faculty members from the Professional Education Unit. The panel shall include at least one (1) member from the student's major area of certification. Students may apply for admission to the Teacher Education Program only twice. Students who are denied admission to the Teacher Education Program on the first try may apply the following semester if all requirements have been met.

### **POLICIES AND PROCEDURES: ADMISSION TO STUDENT TEACHING**

#### **General Admission Criteria**

1. Student teaching occurs during the last full semester of enrollment prior to graduation and is considered the culminating experience for students in Teacher Education.

*Student teaching consists of one (1) semester of an assigned, on-site practice, with a minimum of sixty-five (65) days or 200 clock hours. Students are not permitted to register for additional courses without approval from the Council for Professional Education (CPE).*

1. Completed applications for student teaching must be submitted to the Office of Clinical and Field Experiences prior to March 1 for the fall semester and October 1 for the spring semester. Application forms for student teaching are available in the Office of Clinical and Field Experiences in the Education and Humanities Building.

*Admission to the Teacher Education Program and satisfactory PRAXIS II scores are prerequisites for student teaching placement.*

3. Upon the approval of the Council for Professional Education, the Director of Clinical and Field Experiences will review and notify the applicant by letter that the application for admission to student teaching has been approved or denied with a statement of the reason(s) for denial.
4. Applicants who meet the Specific Criteria will be approved for admission to student teaching.



## **POLICIES AND PROCEDURES: ADMISSION TO STUDENT TEACHING**

### **Specific Admission Criteria for Student Teaching**

#### **Criteria 1: Senior Status**

Students who are within one (1) year of completing their program are considered to have a senior status.

#### **Criteria 2: Grade Point Average**

Students must have a cumulative minimum grade point average of 2.5 and a —C or better in the teaching area and in all courses taught by the Education Department and required General Education courses. Students must also have a —C or better grade in methods courses in the respective content area.

#### **Criteria 3: Curriculum Audit**

Students must submit a Senior Status Curriculum Audit Sheet to the Office of Records and Registration. This audit should be conducted and signed by the major Advisor and Department Chair before September 15 for the spring semester and February 15 for the fall semester. All courses listed on the curriculum sheet must be completed prior to student teaching.

Praxis II passage in the content area and special education, if applicable, must be attained and documented.

#### **Criteria 4: Prerequisites**

No applicant will be permitted to student teach while on academic probation.

All applicants must have completed the courses with a grade of “C” or better in their academic disciplines.

#### **Criteria 5: Recommendation**

Students who are successfully completing student teaching should apply for an Institutional Recommendation for Certification through the Office of Clinical and Field Experiences.

### **Waiver of Student Teaching**

A waiver of Student Teaching may be requested by students prior to their senior year if the following requirements are met:

1. The teaching experience should have occurred within the last five (5) years.
2. The teaching experience must have been in a public, approved private, or parochial school.
3. Documentation must be submitted for at least three (3) years of successful teaching experience in the area of specialization in which certification is requested. Documentation should be organized and neatly bound.
4. All teaching experience to be considered must be documented by former principal(s) and/or supervisor(s) acquainted with the quality of teaching done by the student. Forms will be supplied for this purpose. These forms, along with supporting letters received from the school personnel involved, will become a part of the student's file. All documentation will be evaluated by the respective Department, Education Department, and the Council for Professional Education. The documentation must meet the requirements for all student teachers at Delaware State University.
5. Each person requesting a waiver of student teaching must successfully complete six (6) additional semester hours of 300-400 level education courses. These six (6) hours are in addition to regular course requirements.

6. Evidence of passing scores on the PRAXIS I Skills Test and on the PRAXIS II content knowledge examination must be included in the documentation.
7. Upon recommendation of the Council for Professional Education, an on-site school visit will be made by three (3) members of The Council for Professional Education of Delaware State University to evaluate the student's performance in an actual classroom situation.

## **Other Requirements for Teacher Education Majors**

### **Health and Background Checks**

1. All students must have a T.B. test on record before fall of each year of field experience. Documentation should be submitted to the Coordinator of Field Experiences and the Director of Student Teaching respectively.
2. Delaware State law requires that individuals who are to student teach must have a certificate from a physician stating that they are free of any disease that would compromise or jeopardize others.
3. Criminal background check to be completed prior to the student teaching experience must be submitted to the Director of Student Teaching.

### **Insurance**

1. Students should show evidence of health insurance coverage.
2. Students are responsible for liability insurance.

### **Placement**

1. Students' preferences are taken into consideration in making student teaching assignments; however, final determination of placements is at the discretion of the Director of Student Teaching and/or Chair of the Education Department.
2. Students are not to make their own preparations for placement for student teaching or other field experiences.
3. Each academic program will provide supervision for its student teachers. Students seeking certification, not involving a degree, must have approval from the Chair of the appropriate Department and must have an assigned College supervisor for the student teaching experience.

### **Transportation**

1. Students may reside on campus or at home during their student teaching period. However, in some instances, it may be necessary for the student to arrange living quarters in the community in which they are assigned to student teach.
2. Students are required to provide their own transportation or to make arrangements for transportation during student teaching and early field experiences.

### **Early Field Experiences (Clinical Experiences)**

1. All education majors must participate in field experiences. Field experiences are required for content method classes and courses within the Education Department.
2. Students are expected to be professional: dress appropriately, be on time, maintain appointments, and meet expectations of the course given by the Instructor. Students may be withdrawn from placements due to lack of professionalism.
3. Early Field Experience students must file an application for field experience for courses with the coordinator by September 15 for the fall semester and February 15 for the spring semester.
4. Students must have a T.B. test on file before the fall of each year that placements will be made. The field experience begins with course 12-204 Philosophical Foundations of Education. Placements will not be made without a current T.B. test.

5. Students are expected to obtain between 60-100 clock hours of field experiences depending on the program and academic department. These hours are in addition to student teaching. Students must keep a log of their hours and submit copies to both the Early Field Experience Coordinator and to the faculty teaching the Early Field Experience (EFE) courses.

### **Early Field Experiences (Clinical Experiences)**

1. There are four phases to field experiences at Delaware State University:
  - Phase 1 - observation,
  - Phase 2 - observation with minimal participation,
  - Phase 3 - practica, and
  - Phase 4 - student teaching.

Students will participate in each phase and have a variety of experiences at different age levels within diverse populations of students. Delaware State University's Catalog and course syllabi identify the required number of hours for field experiences.

### **COUNCIL FOR PROFESSIONAL EDUCATION (CPE)**

The Council for Professional Education is an advisory body to all Teacher Education Programs (TEPs). The Council is composed of representatives from each Department at the University with a teacher education curriculum, the Education Department Chair, the Director of Student Teaching, the Coordinator of Field Experiences, Elementary Program Coordinator, Middle School Coordinator, Early Childhood Education Coordinator, Physical Education Program Coordinator, Special Education Program Coordinator, Secondary Education Program Coordinator, Science Program Coordinator, Content Area Program Coordinator, students, and other appointed University representatives. The Education Department is the administrative body for the Professional Education Unit and the Council for Professional Education.

Students may appeal any decision made by the Council for Professional Education in the following sequence:

1. Chair of the Education Department.
2. Council for Professional Education.
3. *Appeal to appropriate Academic Dean.*

**B.S. DEGREE IN EARLY CHILDHOOD EDUCATION**  
**(Birth through Grade 2)**  
**Effective Fall 2010**

Upon completion of this program of study, graduates will be prepared to: demonstrate acquired knowledge and skills associated with child development and learning; manage and monitor student learning; plan and implement developmentally appropriate curriculum and environments; plan and implement interdisciplinary units of learning; establish and maintain family and community relationships that add to the quality of life for young children; work effectively with young children in culturally diverse environments based on formal and informal assessments; create learning and social environments that value young children; and communicate effectively with children within their unique states of development.

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-191	University Seminar I	1	EDUC-192	University Seminar II	1
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
ART-101	Introduction to Art OR		PSYC-201	Intro to General Psychology	3
MUSC-101	Introduction to Music	3	BIOL-110	Essential Topics in Biology	4
MTSC-105	Math for Teachers I or Higher	3	MTSC-106	Math for Teachers II or Higher	3
MVSC-100	Lifetime Fitness & Wellness	2	xx-xxx	Foreign Language II	3
xx-xxx	Foreign Language I	3			
	Total Credits	15		Total Credits	17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	EDUC-205	Child Growth and Development	3
ENGL-201	World Literature I OR		ENGL-202	World Literature II OR	
ENGL-205	African American Literature I	3	ENGL-206	African American Literature II	3
MTSC-205	Math for Teachers III or Higher	3	EDUC-313	Intro to Educ. of Children w/Except Needs	3
EDUC-207	Life Span Development	3	EDUC-206	Intro to Early Childhood Educ.	3
HIST-201	American History to 1865	3	PSED-201	Physical Science Survey	3
HIST-204	Philo Foundations of Education	3	GEOG-201	World Regional Geography	3
	Total Credits	18		Total Credits	18
			Required to pass Praxis I and apply for admission to Teacher Education Program		
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-257	Motor Dev./Movmt. Educ. for Child	3	EDUC-333	Meth of Teaching Students w/Exceptional Learning Needs	3

EDUC-325	Lang & Literature Development	3	EDUC-315	Parents, Families, & Community Partnerships	3
EDUC-318/ 31-395	Multicultural Educ. w/Global Societies	3	EDUC-340	Integrating Children's Literature through Lang Arts	3
EDUC-329	Curriculum.. for Infant & Toddler Care and Educ-ECE Pract I	4	PSED-207	Earth/Space Science	3
EDUC-319	Math. Curr. in Early Chdhd & Primary Grades	3	EDUC-337	Curr. Intgrtn. In ECE & Pract II	4
	Total Credits	16		Total Credits	16
			Apply for Student Teaching and complete Senior Audit by Oct 15 Fall of Senior Year		

Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-401	Assessment of Young Children	3	EDUC-400	Student Teaching**	12
EDUC-416	Analysis of Student Teaching	1			
EDUC-344	Instructional Tech in Education	3			
EDUC-345	Admin of Early Chldhd Educ	3			
EDUC-338	Curr. Intgrtn. in ECE and Practicum III	4			
	Total Credits	14		Total Credits	12
Must pass Praxis II before Student Teaching					

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

Total Credits: 126
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**B.S. DEGREE IN ELEMENTARY EDUCATION (K-6)**  
**Effective Fall 2010**

Graduates of the elementary education program will be prepared to demonstrate acquired knowledge, skills, and dispositions associated with child development and learning; provide equitable treatment to diverse student populations; plan and implement developmentally appropriate curriculum that includes interdisciplinary units with technology; incorporate prevailing theories of teaching and learning into their practice; align instruction with assessment; adjust teaching practices based on authentic/informal and formal assessments; demonstrate awareness of culture and context on behavior; and foster students' self-esteem and respect for learning.

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-191	University Seminar I	1	EDUC-192	University Seminar II	1
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
ART-101	Introduction to Art OR		PSYC-201	Intro to General Psychology	3
MUSC-101	Introduction to Music	3	BIOL-110	Essential Topics in Biology	4
MTSC-105	Math. for Teachers I or Higher	3	MTSC-106	Math. for Teachers II or Higher	3
MVSC-100	Lifetime Fitness & Wellness	2	xx-xxx	Foreign Language II	3
xx-xxx	Foreign Language I	3			
	Total Credits	15		Total Credits	17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	EDUC-205	Child Growth and Development	3
ENGL-201	World Literature I OR		ENGL-202	World Literature II OR	
ENGL-205	African American Literature I	3	ENGL-206	African American Literature II	3
MTSC-205	Math for Teachers III or Higher	3	MUSC-201	Integrating Music in Elementary School OR	
EDUC-207	Life Span Development	3	ART-201	Integrating Art in Elementary School	3
HIST-201	American History to 1865	3	PSED-201	Physical Science Survey	3
EDUC-204	Philo Foundations of Education	3	GEOG-201	World Regional Geography	3
			EDUC-257	Motor Dev/Movement Education for Children	3
	Total Credits	18		Total Credits	18
			Required to pass Praxis I and apply for admission to Teacher Education Program		
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PSED-207	Earth/Space Science	3	EDUC-357	Effective Teaching Strategies and Classroom Management	4
EDUC-335	Devlp. Reading in Elem Schools	3	EDUC-303	Teaching of Social Studies	3
EDUC-318/	Multicultural Educ./Global Societies	3	EDUC-315	Parents, Families and Community Partnerships	3

GLST-395					
EDUC-306	Meth. of Tchg. Math in Elementary and Middle School	3	EDUC-340	Intgtng. Children's Lit through Lang Arts	3
EDUC-313	Intro. to Educ. of Children w/Exceptional Needs	3	EDUC-344	Instructional Tech in Education	3
	Total Credits	15		Total Credits	16
			Apply for Student Teaching and complete Senior Audit by Oct 15 Fall of Senior Year		

Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-331	Methods of Teaching Science in Elem/Mid School	3	EDUC-400	Student Teaching**	12
EDUC-418	Intgrtng. Reading Meth/Elem Prac.	3			
EDUC-423	Assessment Strategies	3			
EDUC-409	Meth. of Teaching Students with Exceptional Learning Needs	3			
EDUC-416	Analysis of Student Teaching	1			
	Total Credits	13		Total Credits	12
Must pass Praxis II before Student Teaching					

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 124
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**B.S. DEGREE IN MIDDLE LEVEL EDUCATION (5-8)**  
**Effective Fall 2010**

Graduates are prepared to demonstrate competencies in the following areas: Planning and implementing instruction; utilizing effective interpersonal skills and multicultural dispositions knowledge of specific professional expectations of a teacher's role in schools; incorporating best practices of teaching and learning balancing the developmental characteristics of early adolescents with the characteristics and expectations of society; and developing and implementing interdisciplinary curricular themes. They are also taught to demonstrate a variety of instructional approaches, differentiate instruction, and provide exploratory opportunities which develop critical and creative thinking, and foster students' self-esteem and respect for learning within adolescent learners. All middle level majors must complete two (2) concentration areas for certification by Delaware Department of Education.

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-191	University Seminar I	1	EDUC-192	University Seminar II	1
ENGL-101	English Comp I	3	ENGL-102	English Comp II	3
MTSC-121	College Algebra	3	MTSC-241	Elementary Statistics	3
FL-xxx	Foreign Language I	3	FL-xxx	Foreign Language II	3
MVSC-100	Lifetime Fit & Wellness	2	BIOL-110	Essen. Topics in Biology	4
ART-101	Intro to Art OR		PSYC-201	Intro to Gen Psychology	3
MUSC-101	Intro to Music	3			17
	Total Credits	15		Total Credits	
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-201	World Lit I OR			Content Area Elective	3
ENGL-205	African American Lit I	3	ENGL-102	World Lit II OR	
HIST-201	Amer. Civ. to 1865	3	ENGL-206	African American Lit II	3
EDUC-204	Philo. Found. of Educ.	3	EDUC-207	Life Span Development	3
PSED-201	Physical Sci. Survey	3	EDUC-208	The Middle Schl. Years	3
ENGL-200	Speech	3	EDUC-313	Intro to the Educ. of Children. w/Excep. Needs	3
	Total Credits	15		Total Credits	15
			Required to pass Praxis I and apply for the Teacher Education Program		
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
	Content Area Elective	3		Content Area Elective	3
	Content Area Elective	3		Content Area Elective	3
MTSC-403	Meth. of Tchg. Math OR		MTSC-403	Meth. of Tchg. Math. OR	
ENGL-404	Meth. of Tchg Engl. OR		ENGL-404	Meth. of Tchg. Engl. OR	
34-445	Meth. of Tchg. Soc. Std. OR		HIST-445	Meth. of Tchg. Soc. Std OR	



EDUC-210	Meth of Tchg. Science	3	EDUC-210	Meth. of Tchg. Science	3
Must take 1 of 2 required methods courses			Must take 1 of 2 required methods courses		
EDUC-318	Multicultural Education with Global Soc.	3	EDUC-344	Instrl. Tech. in Education	3
PSYC-413	Psychology of Learning	3	EDUC-332	Curr./Instr. in Middle Schl.	3
Total Credits		15	Total Credits		15
			Apply for Student Teaching and complete Senior Audit by Oct 15 Fall of Senior Year		

Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
	Content Area Elective	3	EDUC-400	Student Teaching**	12
EDUC-302	Read. in the Cont. Area	3			
EDUC-357	Eff. Tchg. Strt./Clrm./Mgt.	4			
EDUC-411	Counseling Psy. I	3			
EDUC-416	Analysis of Student Tchg.	1			
EDUC-423	Assessment Strategies	3			
Total Credits		17	Total Credits		12
Required to pass Praxis II before student teaching					

\* Multicultural Ed satisfies Global Societies, General Ed requirement; however, GLST-395 cannot replace EDUC-318

\*\*\* Must be admitted to program AND earn a grade of "C" or better in the course

\*\*Refer to the General Education Program Requirements in the DSU Undergraduate Catalog or the DSU website

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

Total Credits: 121
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**B.S. DEGREE IN ELEMENTARY SPECIAL EDUCATION (1-8)**  
**Effective Fall 2010**

Upon completion of this program of study, graduates will be prepared to apply acquired knowledge of characteristics of various categories of mild/moderate disabilities; plan and manage the teaching and learning environment; select and implement age-appropriate assessment tools, diagnose learning needs, and evaluate individualized education programs; manage and monitor student behavior and social interaction skills; demonstrate knowledge of the foundation of special education; and plan a culturally responsive program that effectively communicates and collaborates with parents, teachers, and the education community.

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-191	University Seminar I	1	EDUC-192	University Seminar II	1
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
ART-101	Introduction to Art	3	PSYC-201	Intro to General Psychology	3
MUSC-101	Introduction to Music	3	BIOL-110	Essential Topics in Biology	4
MTSC-105	Math for Teachers I or Higher	3	MTSC-106	Math for Teachers II or Higher	3
MVSC-100	Lifetime Fitness & Wellness	2	HIST-201	American History	3
PSED-207	Earth/Space Science	3			
	Total Credits	18		Total Credits	17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-201	World Literature I OR		ENGL-202	World Literature II OR	
ENGL-205	African American Literature I	3	ENGL-206	African American Literature II	3
MTSC-205	Math for Teachers III or Higher	3	xx-xxx	Foreign Language II	3
EDUC-205	Child Growth and Development	3	EDUC-257	Motor Dev/Movement Education for Children	3
EDUC-204	Philo Foundations of Education	3	GEOG-201	World Regional Geography	3
xx-xxx	Foreign Language I	3	ENGL-200	Speech	3
	Total Credits	15		Total Credits	15
			Required to pass Praxis I and apply for admission to Teacher Education Program		
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-313	Intro to Educ. of Children w/Exceptional Needs	3	PSED-201	Physical Science Survey	3
EDUC-344	Instructional Tech. In Educ.	3	EDUC-311	Curr. and Materials for Children w/Except. Lrng. Needs	3
EDUC-	Multicultural Educ./Global	3	EDUC-	Bhvr. Analy. & Mod. for Indv.	3

318/ GLST- 395	Societies		346		
EDUC- 306	Methods of Tchg. Math in Elementary and Middle School	3	EDUC- 342	Applications of Tech. in Spec. Ed.	3
EDUC- 325	Language & Lit. Development	3	EDUC- 335	Devlpmntl. Reading in Elem. Schl.	3
		Total Credits	15		
				Total Credits	15

Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC- 328	Tchg. Students w/Specific Learning Disabilities	3	EDUC- 400	Student Teaching**	12
EDUC- 357	Effective Teaching Strategies & Clsrm. Mgt.	4			
EDUC- 321	Diag. Assmnt. & IEP Dev.	3			
EDUC- 409	Methods of Tchg. Students w/ Exceptional Lrng .Needs Elem.	3			
EDUC- 324	Diag. & Rem. of Reading Instruc.	3			
EDUC- 416	Analysis of Student Teaching	1			
		Total Credits	17		
				Total Credits	12
Must pass Praxis II before Student Teaching					

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

Total Credits: 124

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**B.S. DEGREE IN SECONDARY SPECIAL EDUCATION (7-12)**  
**Effective Fall 2010**

Upon completion of this program of study, graduates will be prepared to plan and implement age-appropriate curriculum at the secondary level based on the developmental characteristics of adolescents and characteristics of learners with varied exceptionalities; demonstrate knowledge of characteristics of various categories of mild/moderate disabilities; plan and manage the teaching and learning environment; education programs; manage and monitor student behavior and social interaction skills; apply knowledge of the foundations of special education; and plan a culturally responsive program that effectively communicates and collaborates with parents, teachers, and the educational community.

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-191	University Seminar I	1	EDUC-192	University Seminar II	1
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
ART-101	Introduction to Art	3	MTSC-106	Math for Teachers II	3
MUSC-101	Introduction to Music	3	BIOL-110	Essential Topics in Biology	4
MTSC-101	Math for Teachers I	3	PSYC-201	Intro to General Psychology	3
PSED-207	Earth/Space Science	3	xx-xxx	Foreign Language I	3
MVSC-100	Lifetime Fitness and Wellness	2			
	Total Credits	18		Total Credits	17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-201	World Literature I OR		ENGL-202	World Literature II OR	
ENGL-205	African-American Literature I	3	ENGL-206	African American Literature II	3
MTSC-205	Math for Teachers III or Higher	3	PSED-201	Physical Science Survey	3
EDUC-204	Philo Foundations of Education	3	GEOG-201	World Regional Geography	3
ENGL-200	Speech	3	ENGL-208	The Middle School Years	3
xx-xxx	Foreign Language II	3	EDUC-313	Intro to Education of Children w/Exceptional Needs	3
			Required to pass Praxis I and apply for admission to Teacher Education Program		
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
HIST-201	American History to 1865	3	EDUC-311	Curr. and Mat. for Childn. w/Exceptional Needs	3
EDUC-344	Instructional Tech in Education	3	EDUC-357	Eff Tchg Strat/Clsrm Mgt	4
EDUC-318/	Multicultural Educ/Glob Soc	3	EDUC-322	Tchg Reading in THE Sec Schl	3

GLST-395					
EDUC-306	Meth of Tchg Math in Elem & Middle School	3	EDUC-346	Behavior Analy and Mod for Indv w/Except Needs	3
EDUC-328	Methods of Tchg Students w/ Specific Learng Needs	3	EDUC-342	Appl of Tech in Spec Education	3
	Total Credits	15		Total Credits	16
			Must pass Praxis II before Student Teaching		

Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-321	Diagnostic Assmnt & IEP Dev	3	EDUC-400	Student Teaching**	12
EDUC-417	Meth of Tchg Students w/Exceptional Learning Needs	3			
EDUC-324	Diag & Remediation of Reading Instruction	3			
EDUC-421	Issues In Special Education	3			
EDUC-419	Research Seminar in Special Education	3			
EDUC-416	Analysis of Student Teaching	1			
	Total Credits	16		Total Credits	12
Must pass Praxis II before Student Teaching					

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

Total Credits: 124
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**B.S. DEGREE IN SCIENCE EDUCATION:  
EARTH SCIENCE, PHYSICAL SCIENCE, GENERAL SCIENCE  
Effective Fall 2010**

Upon completion of this program of study, graduates will be prepared to design science lessons to meet the interest, knowledge, and abilities of all students; recognize and respond to student diversity and safe environment within which students are able to engage in meaningful investigations; and use various technologies to enhance learning.

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-191	University Seminar I	1	EDUC-192	University Seminar II	1
BIOL-101	Gen Biology	4	BIOL-102	General Biology	4
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MTSC-121	College Algebra	3	HIST-201	American History to 1865	3
MVSC-100	Fitness & Wellness	2	MTSC-122	Trigonometry	3
xx-xxx	Foreign Language I	3	xx-xxx	Foreign Language II	3
	Total Credits	16		Total Credits	17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-201	World Literature I OR		ENGL-202	World Literature II OR	
ENGL-205	African Amer Literature I	3	ENGL-206	African Amer Literature II	3
CHEM-101	Gen & Analy Chemistry I	4	CHEM-102	Gen & Analy Chemistry II	4
PSED-101	Geology	3	EDUC-204	Philosophical Found of Educ	3
PHYS-111	Introduction to Physics	4	NTSC-202	Microclimatology	3
			26-112	Introduction to Physics II	4
	Total Credits	14		Total Credits	17
			Required to pass Praxis I and apply for admission to Teacher Education Program		
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PSYC-201	Intro to General Psychology	3	ASTR-101	Descriptive Astronomy	3
EDUC-313	Intro to Educ of Children w/Exceptional Needs	3	PSED-403	Global Seminar & Environmental Issues	3
ENGL-200	Speech	3	EDUC-210	Meth of Tchg MS/HS Science	3
PHIL-202	Ethics	3	GEOG-201	World Regional Geography	3
EDUC-	Instructional Tech in Educ	3	PSED-	Earth/Space Science	3

344			207		
	Total Credits	15		Total Credits	15
			Apply for Student Teaching Complete Senior Audit by Oct 15 Fall of Senior Year		

Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PSYC-316	Developmental Psychology	3	EDUC-400	Student Teaching**	12
EDUC-322	Tchg Readg in Secondary Schl	3			
EDUC-416	Analysis of Student Teaching	1			
EDUC-357	Effec Tchg Strat & Classroom Management	4			
EDUC-318/ GLST-395	Multicultural Educ/Global Societies	3			
	Total Credits	14		Total Credits	12
Must pass Praxis II before Student Teaching					

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 120
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**B.S. DEGREE IN PHYSICAL EDUCATION**  
**Effective Fall 2010**

The Education Department of Delaware State University has adopted and has redesigned the program to develop effective Physical Education Teachers for the 21st Century. These teacher candidates are equipped with the necessary knowledge, skills, and dispositions to integrate technology into instruction. They have the ability to apply scientifically proven models and strategies to provide assessment and instruction in a variety of physical education settings. All Physical Education majors must complete the following:

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
ENGL-124	Tchg Fit/Phys Acty Concepts	3	MVSC-100	Lifetime Fitness and Wellness	2
EDUC-191	University Seminar I	1	EDUC-192	University Seminar II	1
MTSC-101	Survey of Math I	3	MTSC-102	Survey of Math II	3
EDUC-253	History & Princ of Phys Educ	3	EDUC-221	Mvmnt Ed: A Skill Theme Approach	3
xx-xxx	Art & Humanities Elective	3	HIST-20	History/Social Science	3
( Select one of the following courses: 05-101, 06-100, 06-101, 01-113, 03-201, 03-202, 03-105)			(Select one of the following courses: 34-201, HIST-202, HIST-203, HIST-204) Take Praxis I		
Total Credits		16	Total Credits		15
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	SPSC-202	Anat & Physiology w/Lab	4
MVSC-201	Anat & Physiology w/Lab	4	EDUC-231	Tchg Net & Wall Games	3
EDUC-204	Phil Found of Education	3	EDUC-236	Tchg Target & Field Games	3
EDUC-223	Tchg Territorial Games	3	xx-xxx	Foreign Language II	3
xx-xxx	Foreign Language I	3	ENGL-xxx	Literature I	3
#(Select one of the following options: 01-201 & 01-206 OR 01-202 & 01-205)			#(Select one of the following options: 01-201 & 01-206 OR 01-202 & 01-205)		
Total Credits		16	Total Credits		16
			Required to pass Praxis I Apply for admission to Teacher Education Program		
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PSYC-201	Intro to Psychology	3	EDUC-318/ GLST-395	Multi Ed with Glob Soc	3



EDUC-344	Instr Tech in Education	3	EDUC-257	Motor Dev/Mvmnt Ed 0-8	3
SPSC-355	Physiology of Exercise	3	EDUC-363	Adventure-Based Education	3
EDUC-241	Instructional Strategies	3	EDUC-368	Anlys & Asses for Tchg PE	3
ENGL-xxx	Literature II	3	EDUC-358	Adapted Physical Education	3
#(Select one of the following options: ENGL-201 & ENGL-206 OR ENGL-205 & ENGL-202)			SPSC-361	Sport Biomechanics	3
		Total Credits	15		
				Total Credits	18

Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-416	Analysis of Student Teaching	1	EDUC-400	Student Teaching**	12
EDUC-357	Eff Tchg Strat & Classroom Mgt	4			
EDUC-449	Methods of Tchg Elem Phys Ed	3			
EDUC-453	Meth of Tchg Sec Phys Ed	3			
EDUC-371	Contemporary Curriculum Models	3			
		Total Credits	14		
				Total Credits	12
Required to pass Praxis II before student teaching					

#Students must take 01-201 and 01-206 OR 01-202 and 01-205 to fulfill the Literature requirement for General Education for General Education.

\*\* **Senior Capstone**

\* **Writing Intensive Course(s)**

Total Credits: 122
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## **PRE-EDUCATION AND EDUCATION (EDUC) (12)**

### **EDUC-050. PRAXIS: INDIVIDUAL TEST PREPARATION/MATHEMATICS**

**0:3:0**

The Pre-Professional Skills Test in Mathematics course measures mathematical skills and concepts that require integration of multiple skills to achieve a solution. The course focuses on four (4) content categories: number and operations, algebra, geometry and measurement, and data analysis and probability. Education majors must receive a passing score of 174 for Delaware certification.

Credit, none.

### **EDUC-051. PRAXIS: INDIVIDUAL TEST PREPARATION/READING**

**0:3:0**

The Pre-Professional Skills Test in Reading course measures the ability to understand, analyze, and evaluate written texts. Varying in difficulty, the reading material is drawn from a variety of subject areas and real-life situations that educated adults are likely to encounter. The course focuses on Literal Comprehension-the ability to understand accurately and completely what is directly stated in written text and Critical and Inferential Comprehension-the ability to evaluate a reading selection and its messages. Education majors must receive a passing score of 175 for Delaware certification.

Credit, none.

### **EDUC-051A. PRAXIS: INDIVIDUAL TEST PREPARATION/WRITING**

**0:3:0**

The Pre-Professional Skills Test in Writing course assesses the ability to use grammar and language appropriately and the ability to communicate effectively in writing; these abilities are essential to a well-educated adult in a professional role. The course focuses on grammatical relationships, structural relationships, word choice and mechanics, and essay writing. Education majors must receive a passing score of 173 for Delaware certification.

Credit, none.

### **EDUC-124. TEACHING FITNESS AND PHYSICAL ACTIVITY CONCEPTS**

**3:3:0**

The course focuses on health-related fitness components and physical activity concepts. Students will be required to follow the Physical Best approved National Curriculum and demonstrate knowledge, understanding, and ability to administer fitness tests across K-12 curricula. At the conclusion of the class, students will be prepared to take the Physical Best National Certification Exam.

Credit, three hours.

### **EDUC-191. UNIVERSITY SEMINAR I – EDUCATION**

**1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **EDUC-192. UNIVERSITY SEMINAR II – EDUCATION**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

**EDUC-204. PHILOSOPHICAL FOUNDATIONS OF EDUCATION****3:3:0**

The philosophical foundations of society and education are explored in this course and their impact on traditional contemporary theories of education is examined. Schools as institutions, issues affecting teachers, characteristics of learners, current topics related to the teaching profession, and the role of teachers in society are discussed. Early field experience is required (10 hours).

Credit, three hours.

**EDUC-205. CHILD GROWTH AND DEVELOPMENT****3:3:0**

Students will be introduced to a comprehensive study of child development, chronologically to include prenatal development, infancy, early childhood, middle childhood and pre-adolescence. Current theoretical foundations and research findings will be examined with an emphasis on the developmental milestones and significant changes for children through the growth process. Topical examination of developmental theories and domains will be introduced as means of studying first experiences, peer relationships, out-of-home care, and education, as well as factors influencing the development of the child through the pre-adolescent growth period. Principles of child growth and development will be applied through direct observation of children in school and care settings. Early field experience is required (10 hours).

Credit, three hours.

**EDUC-206. INTRODUCTION TO EARLY CHILDHOOD EDUCATION****3:3:0**

Discussion of goals, objectives, and principles of educating young children. Included are the historical, philosophical, psychological, and social foundations of Early Childhood Education. Various types of early childhood programs will be examined. Visitation to various early childhood settings will be required. Early field experience is required (10 hours).

Credit, three hours.

**EDUC-207. LIFE SPAN DEVELOPMENT****3:3:0**

The course is designed to provide an introduction to the field of human development from conception through death. The course focuses on the processes of physical, cognitive, social, and emotional development, including personality development. Students will explore current research and theory, highlighting the nature and diversity of developmental change.

Credit, three hours.

**EDUC-208. MIDDLE SCHOOL YEARS****3:3:0**

Middle level education is viewed as a transition period for young adolescents. The course explores the development of the student in the academic, physical, social, and emotional realms as it relates to the teaching/learning environment. The course is required in the Middle Level (5-8) Program. Early field experience is required (10 hours).

Credit, three hours.

**EDUC-210. METHODS OF TEACHING MIDDLE AND HIGH SCHOOL SCIENCE****3:3:0**

Designed to include various methods, materials, and techniques involved in teaching science in grades 7-12. Early field experience is required (10 hours). Admission to Teacher Education Program is required.

Credit, three hours.

**EDUC-221. MOVEMENT EDUCATION: A SKILL THEME AND MOVEMENT CONCEPT APPROACH****3:3:0**

The content of this course will focus on the skill themes and movement concepts grades K-5. Skills in the three (3) areas of locomotor, manipulative, and non-manipulative will be arranged from simple to complex and analyses of combined movements and error correction will be emphasized. Movement Education will also utilize the media of games, educational gymnastics, and dance to foster the child's physical, mental, and emotional development through the movement concepts described as body awareness, space, qualities, and relationships.

Credit, three hours.

**EDUC-223. TEACHING TERRITORIAL GAMES SKILLS AND CONCEPTS****3:3:0**

Application of progressions for teaching territorial games skills, concepts, and tactics in team sports. The course will focus on the skill development and sequential application of tactical complexity including offensive and defensive strategies for soccer, floor hockey, ultimate frisbee, team handball, and basketball.

Credit, three hours.

**EDUC-231. TEACHING NET AND WALL GAMES SKILLS CONCEPTS AND TACTICS****3:3:0**

Application of progressions for teaching net and wall games skills, concepts, and tactics in individual and dual sports. The course will focus on the skill development and sequential application of tactical complexity including offensive and defensive strategies for badminton, pickleball, tennis, volleyball, and bowling.

Credit, three hours.

**EDUC-236. TEACHING TARGET AND FIELD GAMES SKILLS CONCEPTS AND TACTICS****3:3:0**

Application of progressions for teaching target and field games skills, concepts, and tactics in team and individual sports. The course will focus on the skill development and sequential application of tactical complexity including offensive and defensive strategies for flag football, lacrosse, softball, archery, and golf.

Credit, three hours.

**EDUC-241. INSTRUCTIONAL STRATEGIES AND STYLES FOR TEACHING PHYSICAL EDUCATION****3:3:0**

The course will introduce teacher candidates to pedagogical content knowledge and strategies to teach K-12. The Pedagogical methods for teaching children and adolescents using direct and indirect styles and strategies will be introduced. The course will also focus on the Spectrum of Teaching Styles. Practical application of these teaching tools will be emphasized.

Credit, three hours.

**EDUC-253. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION****3:3:0**

National and international history, people, events, and programs that have led to the current status of the field of physical education. Philosophical positions that have been underwritten by the various periods of development as well as important theories and concepts are addressed. Additionally, principles relating to the psychological and sociological bases of physical education are covered in this course as well as the role of physical education in schools and society, and socialization of physical educators.

Credit, three hours.

**EDUC-257. MOTOR DEVELOPMENT/MOVEMENT EDUCATION FOR CHILDREN****3:3:0**

Introduction to a variety of developmentally appropriate skills designed for children birth to eight (8) and practical application of adapting curriculum content to meet the needs of all children including those who may be developmentally delayed or at risk. There will be a focus on perceptual and fine and gross motor activities, and body movement education as they relate to the whole child. An out-of-class field experience component is required.

Credit, three hours.

**EDUC-302. READING IN THE CONTENT AREAS****3:3:0**

Designed to develop the basic principles, concepts, and skills which will enable the classroom teacher in grades 5-8 to integrate the teaching of reading into the content areas. The goal of instructional strategies that incorporate listening, speaking, reading, writing, and viewing processes is to support both the literacy progress of students as well as their content knowledge acquisition. Current research on the development of comprehension, vocabulary, fluency, and metacognition will be covered in addition to the application of technology within the curriculum. Early field experience is required (20 hours). Admission to the Teacher Education Program is required.

Credit, three hours.

**EDUC-303. TEACHING OF SOCIAL STUDIES****3:3:0**

Presents various methods of teaching the numerous phases of community living with special attention being given to community, history and geography, social types and groups. Opportunities are provided for constructing units and projects in social studies for the elementary school child. Field experience is required (10 hours).

Prerequisites: EDUC-204, HIST-201. Admission to Teacher Education Program is required.

Credit, three hours.

**EDUC-306. METHODS OF TEACHING MATHEMATICS IN ELEMENTARY AND MIDDLE SCHOOLS****3:3:0**

Examines current trends used in teaching mathematics at the elementary school level and makes use of current research on teaching special student populations, students of diverse backgrounds, and students with different learning styles in developing relevant teaching strategies. Emphasis is placed on examination of teaching materials (especially textbooks, audio-visual aids, and computer software) and techniques of computer-assisted instruction. Early field experience is required (10 hours).

Prerequisites: EDUC-204, EDUC-105, EDUC-106. Admission to Teacher Education is required.

Credit, three hours.

**EDUC-311. CURRICULUM AND MATERIALS FOR CHILDREN WITH EXCEPTIONAL LEARNING NEEDS****3:3:0**

Examines the theoretical framework and practical applications for accommodating, adapting, and/or modifying curriculum and related materials to increase instructional access for individual children with exceptional learning needs. Admission to the Teacher Education Program is required. Early field experience is required (10 hours).

Prerequisites: EDUC-313.

Credit, three hours.

**EDUC-313. INTRODUCTION TO EDUCATION OF CHILDREN WITH EXCEPTIONAL LEARNING NEEDS****3:3:0**

Provides a general overview of the legal and educational concerns of educating children with exceptional needs. Includes the historical perspectives, analysis of Federal and State laws and regulations and their implications, as well as models of service delivery and medical, social, emotional, behavioral, parental, technological, and multicultural considerations in special education. Early field experience is required (10 hours).

Credit, three hours.

**EDUC-315. PARENTS, FAMILIES, AND COMMUNITY PARTNERSHIPS****3:3:0**

The concept and benefit of relationship-based child care is the focus of this course. Partnerships and interactions with adults affect everything in a young child's life. With caring and strong relationships, parents, caregivers, directors, and the community are motivated and empowered to work together to help children become successful throughout the domains. Students will evaluate attitudes and program policies needed to support positive connections. Practical suggestions for the achievement of relationship-based care are included. Early field experience is required (10 hours).

Prerequisites: EDUC-206.

Credit, three hours.

**EDUC-318. MULTICULTURAL EDUCATION (EDUCATION MAJORS)****3:3:0**

(Cross-listed as GLST-395 Global Societies). Examination of cultural and ethnic differences in values and the implications for classroom instruction and curriculum development. Examination of current research findings concerning cultural perceptions, practices, and communication styles for teaching approaches, materials, learning experiences, and curriculum development. The course examines the implications of cultural and ethnic differences for program planning in classrooms, schools, and school districts.

Credit, three hours.

**EDUC-319. MATHEMATICS CURRICULUM IN EARLY CHILDHOOD AND PRIMARY GRADES**

**3:3:0**

Examines mathematics concepts, methods of instruction, and instructional materials suitable for young children. Includes the use of computers. Examines techniques for assessing the effectiveness of the curriculum and instructional strategies. Early field experience is required (10 hours).

Prerequisites: EDUC-205, MTSC-105, MTSC-106. Admission to the Teacher Education Program is required.

Credit, three hours.

**EDUC-321. DIAGNOSTIC ASSESSMENT AND IEP DEVELOPMENT**

**3:3:0**

Examines a variety of formal and informal instruments and diagnostic techniques used in assessing the strength, needs, interests, and preferences of children and youth with exceptional learning needs. The focus is placed on providing students with knowledge and skills necessary for selecting, using, interpreting, and evaluating results from measurement and/or screening instruments and techniques commonly employed by professionals to facilitate special education planning and program decisions. Early field experience is required (10 hours).

Prerequisites: EDUC-313. Admission to the Teacher Education Program is required.

Credit, three hours.

**EDUC-322. TEACHING READING IN THE SECONDARY SCHOOL**

**3:3:0**

Designed to develop the basic principles, concepts, and skills which will enable the classroom teacher in grades 9-12 to integrate the teaching of reading into the content areas. The goal of instructional strategies that incorporate listening, speaking, reading, writing, and viewing processes is to support both the literacy progress of students as well as their content knowledge acquisition. Current research on the development of comprehension, vocabulary, fluency, and metacognition will be covered in addition to the application of technology within the curriculum. Field experience is required (10 hours). Admission to the Teacher Education Program is required. Students admitted to the Master of Arts in Teaching program will take this course for graduate credit and will have some additional assignments to complete.

Credit, three hours.

**EDUC-324. DIAGNOSIS AND REMEDIATION OF READING**

**3:3:0**

Designed to enable the classroom teacher to implement appropriate instructional strategies based on data obtained from informal and standardized test data. Application of theory in the classroom is required.

Prerequisites: EDUC-335. Admission to Teacher Education Program is required.

Credit, three hours.

**EDUC-325. LANGUAGE AND LITERACY DEVELOPMENT**

**3:3:0**

The purpose of the course is to introduce the topic of language development and its relationships to literacy from birth to grade 6. The course will focus on the linguistic descriptions of the content and structure of language, theoretical and experiential investigations of language development, language disorders, and differences in literacy development from emergent literacy through achieving proficiency (intermediate grades). Emphasis will be placed on constructivism as literacy development is explored.

Credit, three hours.

**EDUC-328. TEACHING STUDENTS WITH SPECIFIC LEARNING DISABILITIES**

**3:3:0**

Designed to explore the historical and theoretical development of the present field of learning disabilities. Emphasis will be placed on current definitions and characteristics of specific learning disabilities. The content of the course will focus on identification, assessment, and placement, major educational approaches, and specialized techniques in programming. Early field experience is required (10 hours).

Prerequisites: EDUC-313. Admission to the Teacher Education program is required.

Credit, three hours.

**EDUC-329. CURRICULUM FOR INFANT AND TODDLER CARE AND DEVELOPMENT-  
EARLY CHILDHOOD EDUCATION (ECE) PRACTICUM I**

**4:4:0**

Emphasis is placed on the growth and development of infants and toddlers (ages 0-3). Special attention will be given to holistic and sequential growth and development of the child to encompass the social, physical, emotional, creative, and cognitive domains with strong emphasis on appropriate activities. Integrating those activities into the daily schedule of the child and group will be of high priority. Opportunities for students to explore culturally sensitive areas will be provided through observation and participation in infant and toddler programs. Using instructional technology as a tool in developing and assessing models of curriculum will provide students with additional resources for program implementation. Early field experience is required (30 hours). The course is required in the Early Care and Education Program.

Prerequisites: EDUC-204, EDUC-205, EDUC-206. Admission to the Teacher Education Program is required.  
Credit, four hours.

**EDUC-331A. METHODS OF TEACHING SCIENCE IN ELEMENTARY AND MIDDLE  
LEVEL**

**3:3:0**

The course includes the basic teaching strategies, materials, and evaluative techniques for elementary school teachers. Classroom observation and teaching, unit and lesson development are required. Attention will also be given to developing science programs made from materials at hand using a standard text. Early field experience is required (10 hours).

Prerequisites: PSED-201. Admission to the Teacher Education Program is required.  
Credit, three hours.

**EDUC-332. CURRICULUM AND INSTRUCTION STRATEGIES FOR MIDDLE LEVEL  
EDUCATION**

**3:3:0**

The course is designed to give students the curriculum and instructional strategies needed for effective teaching and learning in the middle grades. The major topics studied are the core curriculum, integration of curriculum and instruction, grouping of students, interdisciplinary teams, co-curricular activities, staff development programs, school climate, cooperative relationships with the home and community, and assessment. The course is required in the Middle Level (5-8) Program. Admission to the Teacher Education Program is required.

Prerequisites: EDUC-205, EDUC-208, EDUC-357, EDUC-302.  
Credit, three hours.

**EDUC-333. METHODS OF TEACHING STUDENTS WITH EXCEPTIONAL LEARNING  
NEEDS AT PRE-K LEVEL**

**3:3:0**

The course emphasizes classroom procedures for enhancing development in children who are experiencing developmental delays. The course covers organization of the curriculum, goal setting and task analysis, lesson planning, facilitating Individual Family Service Plans (IFSPs), as well as organizing and managing the learning environment. Practicum with preschool children is an integral part of this course. Admission to the Teacher Education Program is required. Early field experience is required (20 hours).

Prerequisites: EDUC-313.  
Credit, three hours.

**EDUC-335. DEVELOPING READING IN ELEMENTARY SCHOOLS**

**3:3:0**

The course provides an overview of theories and practices related to reading from kindergarten through grade 8. It is designed to assist the prospective teacher in understanding the developmental process of learning to read and to assist in understanding the components of reading instruction. Students will be expected to apply these understandings in an intensive public school experience in which they observe and teach reading under the supervision of a cooperating teacher and a practicum supervisor. The course is required in the Primary (K-4) and Middle Level (5-8) Education Programs. Admission to the Teacher Education Program is required. Early field experience is required (20 hours).

Prerequisites: EDUC-204, EDUC-205, EDUC-313, EDUC-340 (if applicable).  
Credit, three hours.

**EDUC-337. CURRICULUM INTEGRATION IN ECE AND PRACTICUM II****4:4:0**

Students will analyze and evaluate developmentally appropriate early childhood curricula. Emphasis is on designing curriculum to enhance the young child's ability to construct knowledge through exploration and experimentation in all domains through the creation and management of learning environments that capitalize on "work through play", computer technology, and learning activities and materials that are concrete, manipulative, real, and relevant to the lives of young children. Curriculum integration focuses on aesthetic expression, literacy and language, and social and group dynamics. Requires an extended field experience component supervised by the Instructor, consisting of observation/participation with two (2) age groups: infant/toddler and preschool/kindergarten, which provides the pre-service teacher with experiences at activity preparation, classroom management, and facilitation skills and applications. Admission to the Teacher education Program is required. Early field experience is required (30 hours).

Credit, four hours.

**EDUC-338. CURRICULUM INTEGRATION IN ECE AND PRACTICUM III****4:4:0**

Students will analyze and evaluate developmentally appropriate early childhood curricula. Emphasis is on designing curriculum to enhance the young child's ability to construct knowledge through exploration and experimentation in all domains by the creation and management of learning environments that capitalize on "learning through play", computer technology, and learning activities and materials that are concrete, manipulative, real, and relevant to the lives of young children. Curriculum Integration II focuses on inquiry, health and safety, mathematics, science, and social studies. Requires an extended field experience component supervised by the Instructor, consisting of observation/participation with two (2) age groups: infant/toddler and preschool/kindergarten, which provides the pre-service teacher with experiences at activity preparation, classroom management, and facilitation skills and applications. The course is required in the Early Care and Education Program. Admission to the Teacher Education Program is required. Early field experience is required (30 hours).

Credit, four hours.

**EDUC-340. INTEGRATING CHILDREN'S LITERATURE THROUGH LANGUAGE ARTS****3:3:0**

The integration of the language arts components of listening, speaking, reading, and writing processes will be introduced and studied. Instructional strategies for achieving an integrated language arts program in kindergarten through grade 8 classrooms will be provided and the needs of children from diverse cultural backgrounds will be examined. The study of children's literature (prose and poetry) will be integrated with instruction in language arts. Authentic texts will be analyzed and their impact discussed. Early field experience is required (10 hours). The course is required in the Elementary and Middle Level (5-8) Education Programs. Admission to the Teacher Education Program is required.

Prerequisites: EDUC-205, PSYC-201.

Credit, three hours.

**EDUC-342. APPLICATIONS OF TECHNOLOGY IN SPECIAL EDUCATION****3:3:0**

Explores and demonstrates the application of evolving technologies related to accommodations, modifications, and/or alternatives necessary for curriculum and instructional access. Emphasis will be given to assistive and augmentative technology, and to microcomputer applications in classroom settings. Admission to the Teacher Education Program is required.

Prerequisites: EDUC-313.

Credit, three hours.

**EDUC-344. INSTRUCTIONAL TECHNOLOGY IN EDUCATION****3:3:0**

The course is part of the professional component of each student's program of study in education. Teacher candidates will be given the opportunities to become technologically fluent in instructional uses of computers and other technologies, including multimedia, digital collaboration, communication, and internet resources. The course will enable students to integrate technologies across the curriculum in multicultural and diverse settings.

Credit, three hours.



**EDUC-345. ADMINISTRATION OF EARLY CHILDHOOD EDUCATION****3:3:0**

Various types of early childhood programs will be examined focusing on theoretical and practical aspects of program administration. Topics to be included will be licensing, budget management program funding, staff supervision, daily operations, nutrition, health and safety issues, and working with parents and volunteers. The course is required in the Early Childhood Education Program. Admission to the Teacher Education Program is required.

Prerequisites: EDUC-204, EDUC-313.

Credit, three hours.

**EDUC-346. BEHAVIOR ANALYSIS AND MODIFICATION FOR INDIVIDUALS WITH EXCEPTIONAL NEEDS****3:3:0**

The course is designed to study assessment; implementation, monitoring and program evaluation procedures involved with the use of behavior change techniques for individuals across ages and settings with exceptional social, emotional, and/or behavioral needs. Emphasis is placed on the actual implementation and analysis of behavior change projects for students with exceptional needs in public school settings. Early field experience is required (20 hours). Admission to the Teacher Education Program is required.

Prerequisites: EDUC-313, EDUC-321.

Credit, three hours.

**EDUC-353. VOCATIONAL GUIDANCE****3:3:0**

Credit, three hours.

**EDUC-357. EFFECTIVE TEACHING STRATEGIES AND CLASSROOM MANAGEMENT****4:4:0**

The course addresses effective teaching skills and classroom management, and is designed to provide basic pedagogical tools and conceptual frames necessary for effective teaching that results in productive learning. Students will be introduced to the current research on best practices that informs teacher/practitioners. Students will be encouraged to demonstrate the critical teaching skills that are embodied in the Delaware Teaching Standards through individual and small group experiential activities. The course will also provide opportunities to develop reflective teaching skills in the planning, delivery, and evaluation of teaching of their cohort's teaching performances. Current research in classroom discipline, motivation, interpersonal relationships, and academic performance will be highlighted throughout the course. Attention will be devoted to diversity, socioeconomic, and cultural factors that impact classroom management. Admission to the Teacher Education Program is required. Early field experience is required (10 hours). Practicum: 20 hours.

Prerequisites: EDUC-313, PSYC-201.

Credit, four hours.

**EDUC-358. ADAPTED PHYSICAL EDUCATION****3:3:0**

A study of the history, laws, IEP's, assessments, conditions, and activities in physical education for individuals with disabilities. Adaptation of physical education programs in order to meet the specific needs of individuals with disabilities is the major area of emphasis. An out-of-class field experience component is required.

Credit, three hours.

**EDUC-363. ADVENTURE-BASED EDUCATION: AN EXPERIENTIAL APPROACH****3:3:0**

The content for this course will focus on the adventure approach to experiential education across K-12. Teacher candidates will have an opportunity to experience an adventure curriculum including icebreakers, cooperative games, trust activities, initiatives, problem solving activities, and low and high challenge course elements. Team building will be an additional focus and a key component will be the affective domain in physical education.

Credit, three hours.

**EDUC-368. ANALYSIS AND ASSESSMENT FOR TEACHING PHYSICAL EDUCATION 3:3:0**

The course will prepare the teacher candidate to create and maintain productive learning environments and develop formative and summative assessments. The course will include test preparation, checklist, rubric assessment and scoring guide development, and implementation. The course will provide opportunities for the teacher candidate to prepare developmentally appropriate assessments that will effectively measure student learning across the K-12 curriculum. Teacher candidates will learn reflective and analytical techniques with respect to their own teaching.

Credit, three hours.

**EDUC-371. CONTEMPORARY MODELS FOR TEACHING PHYSICAL EDUCATION CURRICULUM 3:3:0**

The study of contemporary curriculums, principles and planning concepts with an emphasis on curriculum models in physical education. The course will define curriculum, explore the basis for curriculum planning, establish an organizational plan for developing curriculum, and analyze and assess an established physical education program. An examination of effective teaching practices and current issues and trends in systematic reflection will be examined.

Credit, three hours.

**EDUC-400. PRE-SERVICE/STUDENT TEACHING 12:0:12**

Pre-service/Student teaching is the senior capstone experience that provides opportunities for students to integrate content, strategies, and theories into practice. The student teacher is expected to assimilate the culture of teaching, practice reflective teaching, function effectively in diverse classroom settings, manage a class of the 21st century, demonstrate content knowledge, and work effectively with students, cooperating teacher, and University supervisor. Students are placed in one (1) or two (2) student teaching settings according to the requirements of certification. Teaching responsibility gradually increases from one (1) or two (2) lessons daily up to a full day of lessons and then decreases gradually to one (1) or two (2) lessons daily. Student teachers are assigned to an appropriate school for twelve (12) weeks under the supervision of a certified mentor and University supervisor. For MAT, take EDUC-500.

Prerequisites: Admission into the Teacher Education Program and successful completion of the total curriculum in the student's major field of study, and passage of PRAXIS II in the content area of Student Teaching.

Credit, twelve hours.

**EDUC-401. ASSESSMENT OF YOUNG CHILDREN 3:3:0**

The goals of developmental screening and assessment can only be achieved when screening and assessment tests are authentic, valid, and accurate. In this course, students will be exposed to evaluation of screening and assessment instruments, child developmental screening, diagnostic assessment, and individual program planning. Students will be able to apply these tools in field-based settings. The course is required in the Early Childhood Education Program.

Prerequisites: EDUC-313, PSYC-201. Admission to the Teacher Education Program.

Credit, three hours.

**EDUC-402. STUDY ABROAD 3:3:0**

Credit, three hours.

**EDUC-409. METHODS OF TEACHING STUDENTS WITH EXCEPTIONAL LEARNING NEEDS/ELEMENTARY 3:3:0**

Provides a supervised field experience in the design and implementation of instructional strategies and materials. The content of the course focuses on designing instruction and developing teacher materials, classroom teaching with feedback, and evaluation with course Instructor.

Prerequisites: EDUC-313. Admission to the Teacher Education Program is required. Early field experience is required (20 hours).

Credit, three hours.

**EDUC-416. ANALYSIS OF STUDENT TEACHING****1:1:0**

This course is designed to prepare DSU students for their upcoming teacher intern experience. The students will have the opportunity to complete all prerequisites that are required by participating school districts. It is mandatory that this course be taken the semester prior to student teaching due to the date/time sensitivity of some documents.

Prerequisites: Admission to the Teacher Education Program is required.

Credit, one hour.

**EDUC-417. METHODS OF TEACHING STUDENTS WITH EXCEPTIONAL LEARNING NEEDS AT SECONDARY LEVEL****3:3:0**

Provides an overview of the commonly known needs of high school students who are identified and receiving special education services across the continuum of settings. Emphasis will be placed on identifying, organizing, and evaluating instructional materials, content, and strategies appropriate for increasing students' academic achievement, social skills development, and self-determination in preparation for successful transitions to adult living.

Prerequisites: EDUC-313. Admission to the Teacher Education Program is required. Early field experience is required (20 hours).

Credit, three hours.

**EDUC-418. INTEGRATING READING METHODS THROUGH ELEMENTARY PRACTICUM****3:3:0**

The course provides an overview of theories related to early childhood and elementary curriculum development, content, and implementation from kindergarten through grade 6. A primary emphasis will be an overview of theories and practices related to reading instruction integrated with the content curricula fostering young children's ability to construct knowledge in all relative areas. In addition, an intensive field experience for elementary majors will be provided in which students observe, develop, and implement integrated reading, curricular, and/or the developmentally appropriate activities under the supervision of a mentor teacher and a practicum supervisor. A practicum experience will be provided in both kindergarten and elementary grades. The course is required in the Elementary (K-6) Program. Admission to the Teacher Education Program is required. Early field experience is required (20 hours).

Prerequisites: EDUC-205, EDUC-313, EDUC-340.

Credit, three hours.

**EDUC-419. RESEARCH SEMINAR IN SPECIAL EDUCATION****3:3:0**

The course is designed to intensively study selected areas of special education through special readings or conducting special projects depending on the needs of the student. Students are expected to conduct literature reviews, explore theoretical bases, locate resources, and propose instructional strategies in their selected area of interest. Admission to the Teacher Education Program is required.

Prerequisites: EDUC-313.

Credit, three hours.

**EDUC-421. ISSUES IN SPECIAL EDUCATION AND TRANSITION****3:3:0**

Students will identify current issues in special education (i.e., under-served groups) and by level (i.e., Elementary/Secondary) and intensively study the educational implications of the issues in relation to increasingly diverse, inclusive educational settings, and inclusive classroom learning environments. For secondary majors, special emphasis is placed on career development, vocational rehabilitation services, and transitions of students with disabilities from school to adult living. Admission to the Teacher Education Program is required.

Prerequisites: EDUC-313.

Credit, three hours.

**EDUC-423. ASSESSMENT STRATEGIES (K-8)****3:3:0**

The course provides the basic pedagogical tools and conceptual frameworks for understanding and developing effective assessment strategies. Students will learn about current assessment methods available to classroom teachers. They will also discuss different measurement principles; use of formal and informal assessments; scoring systems; and other assessment strategies to assist students in their continuous development. Students will have the opportunity to demonstrate their knowledge of assessment strategies through individual and group projects. Based on the performance of students in their classrooms, the teacher candidates will have opportunities to reflect on their teaching skills, and to make adjustments in the planning and delivery of their lessons.

Credit, three hours.

**EDUC-449. METHODS AND MATERIALS OF TEACHING ELEMENTARY PHYSICAL EDUCATION****3:3:0**

Presents prospective teachers of elementary physical education with sufficient background information including methods, materials, and utilization of technology. Topics addressed in this course include assessment, curricula models, lesson planning, inclusion of exceptional children, and delivery of instruction. Physical education majors learn to be able to involve a child during his/her formative years when his/her self-concept develops and centers around movement activities. An out-of-class field experience component is required.

Prerequisites: Admission to TEP.

Credit, three hours.

**EDUC-453. METHODS AND MATERIALS OF TEACHING SECONDARY PHYSICAL EDUCATION****3:3:0**

Presents prospective teachers of physical education at the secondary level with a variety of methods, techniques, and procedures to teach effectively in modern society. Opportunities for “putting into practice” the above learned methods, techniques, and procedures are an integral component in this course through application in clinical and field experiences (aiding in the public schools). Opportunities are abundant for the prospective physical educator to develop and enhance critical thinking and decision-making skills. An out-of-class field experience component is required.

Prerequisites: Admission to TEP.

Credit, three hours.

**EDUC-455. METHODS IN VOCATIONAL EDUCATION****3:3:0**

Credit, three hours.

**EDUC-498. INDEPENDENT STUDY****1-3:3:0**

The course is designed to give teacher candidates and other professionals the opportunity to develop independent inquiry skills. The course permits students to strengthen individual needs or to expand interest in early childhood, elementary, secondary, or special education. The number of hours and credit granted will depend on the comprehensiveness of programming necessary to reach the solution to the individual's problem.

Prerequisites: Consent of the Department Chair is required.

Credit, one to three hours.

**EDUC-499. SEMINAR: CURRENT ISSUES IN AMERICAN EDUCATION****1-3:3:0**

In this seminar, students will research and discuss current political, economic, social, and/or pedagogical issues effecting educational policy and practice. The seminar may be offered on general issues or on specific topics to be selected.

Prerequisites: Senior status.

Credit, one to three hours.

## **PHYSICAL SCIENCES (PSED) (27)**

### **PSED-101. GEOLOGY**

**3:3:1**

A study of the composition and structure of the earth's crust and the agents and processes modifying the earth. Laboratory work includes the interpretation of geologic maps and the identification of rocks, minerals, and fossils. Three (3) lectures, one (1) two-hour laboratory per week.

Credit, three hours.

### **PSED-201. PHYSICAL SCIENCE SURVEY**

**3:3:1**

A survey of the physical sciences covering the fundamental principles of chemistry and physics. Three (3) lectures and one (1) two-hour laboratory per week.

Credit three hours.

### **PSED-207. EARTH/SPACE SCIENCE**

**3:3:1**

This course is a survey of the earth and space sciences covering the fields of geology, astronomy, meteorology, and oceanography. Designed to complement EDUC-331, the course content will be guided by Department of Public Instruction Science Standards and will utilize a variety of methodologies consistent with contemporary instruction in science education. Three (3) lectures and one (1) laboratory per week.

Credit, four hours.

### **PSED-403. GLOBAL SEMINAR ON ENVIRONMENTAL ISSUES**

**3:3:1**

This course is an environment education course which creates an appreciative understanding of natural resources and examines critical issues of conservation and sustainability that transcend discipline and national boundaries as they relate to economic structure. This course emphasizes the need for natural resource management.

Credit, three hours.

## DEPARTMENT OF NURSING

**Associate Professor:** Adepoju, Richardson, Sheffler, Stringfield (Chair)

**Assistant Professors:** Agostino (BSN Coordinator), Evans-Mitchell, Sando

**Clinical Practitioner in Nursing:** Dampeer, Gwanmesia, Johnson, Hendricks

**Visiting Instructor:** Davis

**Department Coordinator:** McQueen (Nursing Technology Coordinator)

**Office Staff:** Bigsby, Marvel

The Nursing Program prepares professional nurses at the baccalaureate degree level, to provide high quality nursing care to individuals, families, and communities in a variety of health care settings. The program is grounded in academic excellence, and students who are qualified and seeking preparation for professional nursing practice are admitted to the program.

Preparation for professional nursing practice demands dedication and commitment to scholarly pursuit and determination to be successful. It also demands knowledge of math, reading, critical thinking, humanities, natural and social sciences, and nursing theory with related clinical practice.

The overall program is designed to meet the learning needs of students seeking to become professional nurses. Primary purposes of the program are to: 1) prepare competent professional nurses, 2) meet the learning needs of a culturally diverse student population; and 3) develop an educational base for future specialization and/or graduate study in nursing.

The nursing curriculum consists of four (4) academic years, which leads to the Bachelor of Science degree in Nursing. Upper division nursing courses include both nursing theory and related laboratory and clinical study. Health agencies including hospitals, nursing homes, clinics, community health settings, and schools in the Delaware area provide settings for laboratory study in nursing. Clinical practice is also provided in the simulated laboratory in the Department of Nursing.

Graduates of the program are eligible to take the licensing examination (NCLEX-RN) administered by the National Council of State Boards of Nursing to become registered nurses. The exam is developed and administered by the National Council Of the State Boards of Nursing.

Graduates of the program are also broadly prepared for employment in entry-level professional positions in a variety of health care and community settings. Educational opportunities are available to registered nurses to continue their education and engage in research, teaching, and advanced clinical practice opportunities in nursing after completion of the Bachelor of Science degree in Nursing.

Each applicant must follow the general admission procedures of the University and the Department of Nursing will make the final decision if admission to the nursing program is granted. In addition, prospective students should have taken high school Chemistry, Biology, and Mathematics.

Students who meet the nursing admission criteria are admitted to the nursing program as a pre-professional major. When the student meets the prerequisite requirements of the program at the University, they may apply to the professional level. Nursing students are responsible for their own transportation to all clinical experiences which begin in the junior year of the nursing program. All nursing students are eligible to become members of the Delaware State University Nursing Club. Students may also be invited for membership in the Delaware State University Nursing Honor Society after successful completion of the junior year of the Nursing Program.

The Nursing Program at Delaware State University is approved by the Delaware State Board of Nursing. The program is fully accredited by the Commission of Collegiate Nursing Education (CCNE) and the National League for Nursing Accrediting Commission (NLNAC).

**Special Nursing Policies:**

A nursing student must maintain a minimum grade of 75% which is a –C– or higher in all nursing courses, and the student must earn a –C– or higher in all non-nursing courses. Students must maintain an overall grade point average of –C– or 2.0 to progress in the nursing program. Students who fail one (1) nursing course will not be permitted to progress to the next level until they have repeated and passed the failed course.

**Dismissal Policy:**

A student enrolled in the nursing program that fails any two (2) nursing courses or the same nursing course twice, clinical and/or non-clinical, shall be dismissed from the nursing program. This includes: failure of the same course twice, or failure of any two different nursing courses.

**Please Note: A nursing course once failed still counts as one failure even after the course has been successfully repeated.**

**B.S. DEGREE IN NURSING**  
**Effective Fall 2010**

**NURSING MAJOR:** Sequential selection of courses is required. Students must follow the prescribed sequence of courses to avoid delay in progressing through the program. Successful completion all General Education and support courses are required for admission to the upper level nursing major. All parts of nursing courses with theory, laboratory, and clinical components must be passed in order to pass the course. If either portion is failed, the entire course shall be repeated.

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
NURS-191	University Seminar I	1	NURS-192	University Seminar II	1
BIOL- 207	Anatomy and Physiology I	4	BIOL- 208	Anatomy and Physiology II	4
MTSC-121	College Algebra	3	xx-xxx	Statistics	3
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MVSC-201	Intro. to Gen. Psychology	3	SCCJ 101	Introduction to Sociology ♦	3
*****	Elective	3	****	Arts/Humanities ♦ ■	3
Total Credits		17	Total Credits		17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MVSC-100	Lifetime Fitness and Wellness	2	GBLS-395	Global Societies	3
ENGL-200	Speech	3	BIOL-221	Fundamentals of Microbiology	4
CHEM-107	Chemistry for Health Sciences	4	NURS-204	Pathophysiology	2
PSYC-316	Developmental Psychology OR	3	ENGL-xxx	Literature ♦ ■	3
NURS-300	Growth and Development	(2)	HIST- xxx	History ♦ ■	3
****	Arts/Humanities ♦ ■	3	NURS-292	Foundations in Nursing	1
Total Credits		15	Total Credits		16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
NURS-307	Introduction to Nursing Practice	5	NURS-310	Nursing Research*	3
NURS-308	Health Assessment	4	NURS-311	Nursing Care of Child & Family	5
NURS-309	Psych/Mental Health Nursing	5	NURS-312	HPMR 1	5
Total Credits		14	Total Credits		13
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
NURS- 407	HPMR II	6	NURS-410	Special Topics	3
NURS- 408	Maternal Newborn Nursing	5	NURS-411	Issues and Leadership in Nursing**	3



NURS- 409	Community Health Nursing*	5	NURS-412	HPMR III	8
	Total Credits	16		Total Credits	14

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

Total Credits: 122
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**■ One of these must be an African-American course**

**◆ Two of these courses satisfy the Multicultural across the curriculum requirement**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

## RN-BSN TRACK

### GENERAL EDUCATION / SUPPORT COURSES

			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
NURS-191	University Seminar I ***	1	NURS-192	University Seminar II ***	1
BIOL-207	Anatomy and Physiology 1	4	BIOL -208	Anatomy and Physiology 11	4
MTSC-121	Math	3	*****	Statistics	3
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
PSYC-201	Introduction Psychology	3	SCCJ-101	Introduction to Sociology ♦	3
Total Credits		17	Total Credits		17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MVSC-101	Lifetime Fitness and Wellness	2	GLST-395	Global Societies	3
ENGL-200	Speech	3	BIOL -221	Fundamentals of Microbiology	4
CHEM-107	Chemistry for Health Sciences	4	NURS-204	Pathophysiology	2
PSYC-316	Developmental Psychology or	3	ENGL-xxx	Literature ♦■	3
NURS-300	Growth and Development	(2)	HIST-xxx	History ♦■	3
****	Arts/Humanities ♦■	3			
Total Credits		15	Total Credits		15
Summer Semester			Fall Semester		
Course	Course Name	Cr	Course	Course Name	Cr
NURS-209	Scope of Professional Nursing Practice	3	NURS-308	Health Assessment	4
NURS-310	Nursing Research	3	NURS-409	Community Health Nursing*	5
NURS-315	Elective/Independent Study	3	NURS-314	Nursing Informatics and Technology	3

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
NURS-191	University Seminar I ***	1	NURS-192	University Seminar II ***	1
BIOL-207	Anatomy and Physiology 1	4	BIOL -208	Anatomy and Physiology 11	4
MTSC-121	Math	3	*****	Statistics	3
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
PSYC-201	Introduction Psychology	3	SCCJ-101	Introduction to Sociology ♦	3
*****	Elective ♦	3	****	Arts/Humanities ♦ ■	3
Total Credits		17	Total Credits		17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MVSC-101	Lifetime Fitness and Wellness	2	GLST-395	Global Societies	3
ENGL-200	Speech	3	BIOL -221	Fundamentals of Microbiology	4
CHEM-107	Chemistry for Health Sciences	4	NURS-204	Pathophysiology	2
PSYC-316	Developmental Psychology or	3	ENGL-xxx	Literature ♦■	3
NURS-300	Growth and Development	(2)	HIST-xxx	History ♦■	3

****	Arts/Humanities ♦■	3			
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>15</b>
<b>Summer Semester</b>			<b>Fall Semester</b>		
<b>Course</b>	<b>Course Name</b>	<b>Cr</b>	<b>Course</b>	<b>Course Name</b>	<b>Cr</b>
NURS-209	Scope of Professional Nursing Practice	3	NURS-308	Health Assessment	4
NURS-310	Nursing Research	3	NURS-409	Community Health Nursing*	5
NURS-315	Elective/Independent Study	3	NURS-314	Nursing Informatics and Technology	3
	<b>Total Credits</b>	<b>9</b>		<b>Total Credits</b>	<b>12</b>
<b>Spring Semester</b>			<b>Senior Spring Semester</b>		
<b>Course</b>	<b>Course Name</b>	<b>Cr</b>	<b>Course</b>	<b>Course Name</b>	<b>Cr</b>
NURS-411	Issues and Leadership in Nursing **	3			
NURS-415	Elective/Independent Study	3			
NURS-420	Social, Political Issues and Trends in Nursing *	3			
	<b>Total Credits</b>	<b>9</b>			

♦ Satisfies the Multicultural across-the-curriculum requirement (two courses required)

■ Must take at least one African American course in one of the designated areas

\*\* Senior Capstone Credits < 126 >

\*Writing Intensive

Registered Nurses are awarded 34 credit hours for nursing after completing the first 9 hours of study in the RN-BSN track.

<b><u>Course</u></b>	<b><u>Credits</u></b>
<b>Mental health nursing</b>	<b>5</b>
<b>Health promotion, maintenance, and restoration 1</b>	<b>5</b>
<b>Maternal-infant nursing</b>	<b>5</b>
<b>Health promotion, maintenance, and restoration 11</b>	<b>6</b>
<b>Child-family nursing</b>	<b>5</b>
<b>Health promotion, maintenance, and restoration 111</b>	<b>8</b>

Credit is reflective of NCLEX success.

Other course work will be accepted by the University if those courses are reflective of the General Education courses required by Delaware State University and the Support courses\* that are reflective of courses required by the Department of Nursing. The last thirty hours of study must be done at Delaware State University. Therefore, all of the courses cited in the rubric for nursing must be taken at Delaware State University.

Nursing Support Courses\*

**Anatomy and Physiology  
Chemistry for Health Sciences  
Growth and Development  
Microbiology  
Pathophysiology  
Psychology  
Sociology  
Statistics**

**CRITERIA FOR ADMISSION**

**Formal admission to Delaware State University  
Application for admission to the RN to BSN track  
GPA – Minimum of 2.0  
Current RN license**

## **NURSING (NURS) (28)**

### **NURS-191. UNIVERSITY SEMINAR I – NURSING/PRE-NURSING**

**1:2:1**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course. General Education Requirement in Nursing orients students to the University environment and support systems. Facilitates campus community involvement of students by requiring their attendance at special academic and cultural events on campus. Emphasizes necessary tools and strategies for academic success. Techniques are used with students to assist them to assess learning styles, personality traits, and motivation strategies.

Credit, one hour.

### **NURS 192. UNIVERSITY SEMINAR II – NURSING/PRE-NURSING**

**1:1:1**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course. General Education Requirements sequel to University Seminar I begins to focus students toward the academic skills necessary for success in the nursing program and discipline.

Credit, one hour.

### **NURS -204. PATHOPHYSIOLOGY IN NURSING**

**2:2:0**

This course introduces the student to the pathophysiologic disruptions in the normal body functioning in individuals across the lifespan, assessment and analysis of objective and subjective manifestations of common health problems resulting from environmental, genetic and stress related maladaptations are analyzed. Diagnostic assessments are discussed for each disease process. Alternative medical, and pharmacological management is briefly discussed for selected disease processes and related nursing implications are explored.

Prerequisites: BIOL 207, BIOL 208, CHEM 107.

Credit, two hours.

### **NURS -209. SCOPE OF PROFESSIONAL NURSING PRACTICE**

**3:3:0**

This is the first nursing course in the RN to BSN program of study. The nurse focuses on concepts, theories, models, and philosophies basic to the practice of nursing. Designed to assist the registered nurse student to analyze previous knowledge and examine more advanced theoretical concepts as they apply to individuals, families, and groups. Application of the DSU organizing framework to nursing practice is emphasized.

Prerequisites: State Licensure as a Registered Nurse, and Admission to RN-BSN Program.

Credit, three hours.

### **NURS 292. FOUNDATIONS OF NURSING**

**1:1:0**

This is an online course. Students taking this course will be assigned specific websites that must be used in order to be successful. The course introduces students to medical terminology, drug dosage calculations, and basic safety practices in nursing. This is a nursing support course that is a prerequisite for entry into the nursing major.

Prerequisites: BIOL 207, BIOL 208, CHEM 107

Co-requisites: NURS 204, NURS 292, BIOL 221.

Credit, one hour.

**NURS -300. GROWTH AND DEVELOPMENT ACROSS LIFE SPAN****2:2:0**

This online course is designed to assist the student in understanding concepts associated with normal growth and development across the lifespan (conception to late adulthood). Application of this knowledge will assist the student to provide appropriate interventions for clients and their significant others. Students will be introduced to major theories of human development across the lifespan. Emphasis will be placed on the influences of the psychological, sociological, and cultural dimensions of human functioning and health promotion across the lifespan.

Prerequisites: PSYC 201

Credit two hours

**NURS -307. INTRODUCTION TO NURSING PRACTICE****5:3:6**

This course focuses on fundamental nursing interventions and assisting individual clients to fulfill basic human needs. Adaptation related to meeting physiological, safety, and security needs are emphasized. Students begin to apply principles of the nursing process when planning care for individual clients in long-term care structured settings. Opportunities to practice in the roles of caregiver, communicator, problem-solver, and a group member of the health care team are provided.

Prerequisites: Completion of all General Education and Support courses with a letter grade of "C" or better in all courses; formal admission to the Nursing major, (success on the Nursing Entrance Exam, G.P.A. of 2.8 or higher).

Co-requisites: NURS 308, NURS 309.

Credit, five hours.

**NURS -308. HEALTH ASSESSMENT****4:3:3**

The course is designed to provide students with the knowledge and skills necessary to collect data related to individual health using a multi-dimensional approach. Students are introduced to assessment devices and procedures used to collect data related to human body structure and functioning using a systems approach. Psychologic, social, and cultural aspects of assessment are also introduced to assist students to analyze environmental influences on human structure and function. Assessment of normal growth and development is also emphasized.

Prerequisites: Completion of all General Education and Support courses with a letter grade of "C" or better in all courses; formal admission to the Nursing major, (success on the Nursing Entrance Exam, minimum G.P.A. of 2.8 or higher).

Co-requisites: NURS 307, NURS 309.

Credit, four hours.

**NURS -309. PSYCHIATRIC/MENTAL HEALTH NURSING****5:3:6**

The course provides students with didactic and clinical learning experiences utilizing the nursing process as a means of providing health care to individuals, families, and groups experiencing maladaptive alterations in mental health. Student development in the following nursing roles is emphasized: communicator in the therapeutic nurse-client relationship, advocate of client's rights, and care-giver. The course prepares students to communicate professionally in the health care environment. It exposes students to maladaptive behaviors as they relate to safe, competent nursing skills. A holistic approach, which combines medical nursing and mental health nursing, will produce a nurse who is better prepared for their professional role.

Prerequisites: Completion of all General Education and Support courses with a letter grade of "C" or better in all courses; formal admission to the Nursing major, (success on the Nursing Entrance Exam, minimum G.P.A. of 2.8 or higher).

Co-requisites: NURS 307, NURS 308.

Credit, five hours.

**NURS -310. INTRODUCTION TO NURSING RESEARCH****3:3:0**

An introductory course of the fundamentals and principles of the research process and their application in nursing. Emphasis is placed on developing proficiency in critiquing and evaluating nursing research findings as they relate to the practice of nursing.

Prerequisites: Successful completion of NURS 307, NURS 308, NURS 309.

Co-requisites: NURS 311, NURS 312.

Credit, three hours.

**NURS 311. NURSING CARE OF THE CHILD AND FAMILY****5:3:6**

Students develop competencies and skills to manage health care of children experiencing potential and actual problems in fulfilling human needs during the process of achieving biopsychosocial adaptation, and anticipatory guidance as part of health promotion on the individual as well as community levels. Roles of the professional nurse, including communication, ethics, and cultural competency, in promoting health and adaptation for the child within the context of the family are emphasized in clinical and theoretical components of the course.

Prerequisites: Successful completion of NURS- 307, NURS- 308, NURS- 309.

Co-requisites: NURS- 310, NURS- 312.

Credit, five hours.

**NURS -312. HEALTH PROMOTION, MAINTENANCE, AND RESTORATION I****5:3:6**

The course provides students with both didactic and clinical learning experiences designed to provide nursing care to adult patients/clients who are experiencing acute and chronic medical-surgical health problems in clinical and community health settings. Students utilize the nursing process to provide care to individuals. The course also focuses on individual and family responses to illness experience. Emphasis is placed on the multiple roles of nurses: teacher, care giver, critical thinker, and problem-solver.

Prerequisites: Successful completion of NURS-307, NURS- 308, NURS- 309.

Co-requisites: NURS- 310, NURS- 311.

Credit, six hours.

**NURS-314. NURSING INFORMATION AND TECHNOLOGY**

This course will explore the impact of technology on healthcare, medical record keeping, the influence of HIPAA on record keeping, and technological variables in nursing practice. It will focus on the role of the nurse in electronic information handling and considerations for strategic planning.

Prerequisites: NURS 209, NURS 310, NURS 313

Co-requisites: NURS 308 (RNs), NURS 409

**NURS -315. NURSING ELECTIVE/INDEPENDENT STUDY****3:3:0**

The course will allow the student to identify topics that they would like to research and study. The student will develop their objectives for the project in consultation with an assigned faculty member. The outcome will be either a paper presentation or a written paper that details the project. The student will develop criteria for grading and identify what will constitute letter grades of A, B, or C.

Prerequisites: State Licensure as a Registered Nurse , AND Admission to the RN-BSN program.

Credit, two hours.

**NURS -411. ISSUES AND LEADERSHIP IN NURSING****3:3:0**

An exploration of leadership and management theories and principles and their application to the nursing practice in the provision of health care is presented. Student development in the roles of problem-solver, change agent, and leader is emphasized.

Credit, two hours.

**NURS -407. HEALTH PROMOTION, MAINTENANCE, AND RESTORATION II****5:3:6**

The course utilizes the nursing process in the study of individuals with simple, adaptive problems resulting from interference with basic human needs. The theoretical and clinical components are designed to assist the student to determine priority of client needs and to recognize client responses to illness. The course provides for development of critical thinking skills and strategies of health promotion, maintenance, and restoration across the life span.

Prerequisites: Successful completion of NURS- 310, NURS- 311, NURS- 312.

Co-requisites: NURS- 408, NURS- 409.

Credit, five hours.

**NURS-408. MATERNAL NEWBORN NURSING****5:3:6**

This course provides didactic and clinical learning experiences designed to assist students to apply the nursing process in providing care to the childbearing family during antepartum, intrapartum and postpartum periods in a variety of settings. Health maladaptations as they relate to growth and development are examined. The nurses' role in health promotion, disease prevention to fulfill human needs in childbearing and childrearing families is emphasized. Prerequisites: Successful completion of NURS-310, NURS-311, NURS-312.

Prerequisites: Successful completion of NURS- 310, NURS- 311, NURS- 312.

Co-requisites: NURS- 407, NURS- 409.

Credit, five hours.

**NURS-409. COMMUNITY HEALTH NURSING****5:3:6**

The course provides didactic and clinical learning experiences for students in selected principles of community health, public, and family health nursing. Students conduct in-depth community and family health assessments employing basic epidemiological principles and data collection strategies. The nursing process is utilized by students engaging in health promotion and maintenance strategies in a variety of community health settings.

Prerequisites: Successful completion of NURS- 310, NURS- 311, NURS- 312.

Co-requisites: NURS- 407, NURS- 408.

Credit, five hours.

**NURS-410. SPECIAL TOPICS IN NURSING****3:3:0**

A synthesis course that provides students with repeated opportunities to critically analyze and apply knowledge and skills learned earlier in the program, in providing care to individuals, families, and groups experiencing complex problems across the life span. Test-taking and psychometric principles and skills are emphasized.

Prerequisites: Successful completion of NURS 407, NURS 408, NURS 409.

Co-requisites: NURS- 411, NURS- 412.

Credit, three hours.

**NURS-411. ISSUES AND LEADERSHIP IN NURSING****3:3:0**

An exploration of leadership and management theories and principles and their application to the nursing practice in the provision of health care is presented. Student development in the roles of problem solver, change agent, and leader are emphasized.

Prerequisites: Successful completion of all junior level Nursing courses and first semester senior level Nursing courses.

Co-requisites: NURS- 410, NURS- 412.

Credit, three hours.

**NURS-412. HEALTH PROMOTION, MAINTENANCE, AND RESTORATION III****8:4:12**

The course focuses on application of the nursing process in the study of individuals with complex adaptation problems. The cultural, ethical, psychosocial, and legal aspects of these complex health problems as they affect individuals and their families, the health team, and society are emphasized. The course allows the student to examine the historical aspects of nursing as related to the patients' complex needs. Clinical observational and/or participatory experiences with the client are provided in a variety of settings.

Prerequisites: Successful completion of NURS-407, NURS-408, NURS-409.

Co-requisites: NURS- 410, NURS-411.

Credit, eight hours.

**NURS-415. NURSING ELECTIVE/INDEPENDENT STUDY****3:3:0**

The course will allow the student to identify topics that they would like to research and study. The student will develop their objectives for the project in consultation with an assigned faculty member. The outcome will be either a paper presentation or a written paper that details the project. The student will develop criteria for grading and identify what will constitute letter grades of A, B, or C.

Prerequisites: State Licensure as a Registered Nurse, and Admission to RN-BSN Program.

Credit, three hours.



**NURS-420. SOCIAL AND POLITICAL ISSUES IN NURSING****3:3:0**

A course designed for registered nurse students to study selected ethical, legal, political, and social issues influencing the nursing profession and health care. Development of professional nursing roles including advocate, change agent, political activist, and social problem-solver and communicator in political groups are emphasized.

Prerequisites: State Licensure as a Registered Nurse, and Admission to RN-BSN Program.

Credit, three hours.

## **DEPARTMENT OF SOCIAL WORK**

**Professor:** Suri

**Associate Professors:** Saunders (Chair), Finger-Wright and Kingsberry

**Assistant Professors:** Saunders and Thomas

**Instructor:** Jordan (BSW Program Director)

**Visiting Professor:** Moore

The primary objective of the Baccalaureate Program is to prepare students for entry level, professional generalist social work practice with individuals, families, groups, organizations and communities in diverse settings. Students are introduced to generalist social work practice, strengths perspective, empowerment, and a Black Perspective as a means of providing the necessary knowledge and skills.

Applicants seeking admission to Delaware State University are expected to follow the general admission procedures. Formal admission into the Baccalaureate Social Work Program (BSW) is decided at the Departmental level. The following admissions criteria must be completed: successful completion of two (2) years of undergraduate study with a GPA of 2.00 or higher on a 4.00 scale; a grade of "C" or better in all social work courses as well as all other social work required courses, (Introduction to General Psychology; Introduction to Sociology; Microcomputer Applications); a completed application; and an interview. The Baccalaureate Social Work curriculum is structured to offer a well integrated program in the liberal arts, socio-behavioral sciences, scientific-analytical study, and professional content courses. The five (5) major components of the program are: Social Welfare Policies and Programs, Human Behavior and Social Environment, Social Work Practice, Research, and Field Practicum. Students must complete General Education Requirements as defined by the University, social work Liberal Arts and social work courses, including twelve (12) credit hours of field practicum for a total of 124 credit hours as presented in the attached curriculum.

The Baccalaureate Social Work Program was granted full accreditation status by the national professional accrediting agency, Council on Social Work Education (CSWE) in 1982 and Reaffirmation of Accredited Status in 1990, 1998, and 2004.

### **The mission of the BSW program is:**

The mission of the Department of Social Work is to prepare culturally competent professionals guided by values, ethics, and evidence-based practice for professional and leadership roles; thus enhancing the quality of life of individuals, families, groups, communities, and organizations in a global society.

### **The Goals of the Department of Social Work are to:**

- Prepare social work practitioners to develop an understanding of the importance of a Black perspective based on strengths-based empowerment approach for social work practice
- Prepare culturally competent professionals guided by values and ethics who are capable of promoting social and economic justice when working with diverse and at risk populations in a global society
- Prepare practitioners for evidence-based professional practice and leadership roles.
- Educate students to think critically and to evaluate their own practice

These goals are operationalized through ten (10) core competencies:

- Identify as a professional social worker and conduct yourself accordingly
- Apply social work ethical principles to guide professional practice
- Apply critical thinking to inform and communicate professional judgments
- Engage diversity and difference in practice
- Advance human rights and social and economic justice
- Engage in research-informed practice and practice-informed research
- Apply knowledge of human behavior and the social environment
- Engage in policy practice to advance social and economic well-being and to deliver effective social work services
- Respond to contexts that shape practice
- Engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities

Students are provided individual advisement by the social work faculty from time of contact through graduation. All care is taken to ensure that student career goals and objectives are in congruence with the competencies of the social work program and the profession. Students must apply for admission to the Social Work Program within the Department. **NO CREDIT IS GIVEN FOR PRIOR FIELD OR LIFE EXPERIENCES.** Students are encouraged to participate in student organizations of the Department and University and with affiliated professional organizations. **THERE IS NO MINOR IN SOCIAL WORK.**

**B.S.W. DEGREE IN SOCIAL WORK**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Comp I	3	ENGL-102	English Comp II	3
SCWK-191	University Seminar I	1	SCWK-192	University Seminar II	1
MTSC	Mathematics	3	MTSC	Mathematics	3
BIOL-100	Intro to Biology	3	MVSC-100	Fitness & Wellness	2
SCWK-101	Intro to Social Work*	3	xx-xxx	Natural Science	3
HIST	History (201-204)	3		General Elective	3
			SCCJ-101	Intro to Sociology	3
	Total Credits	16		Total Credits	18
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-	Literature I	3	ENGL-	Literature II	3
xxx - 101	Foreign Language I	3	xxx-102	Foreign Language II	3
SCWK-201	Econ. Pol. & Social Welfare	3	MIS-105	Micro. Computer Application	3
PSYC-201	Intro to Gen. Psyc.	3	xxx-	Arts/Humanities Elective	3
ENGL-200	Speech	3	SCWK-341	Seminar in Helping	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
SCWK-342	Social Work Practice Seminar I	3	SCWK-441	Social work Practice Seminar II	3
SCWK-302	HBSE I	3	SCWK-303	HBSE II	3
GLST-395	Global Societies	3	SCWK-316	Social Wel. Pol. & Prog. II	3
SCWK-315	Social Wel. Pol. & Prog. I	3	SCWK-310	Elementary Statistics	3
	General Elective	3	SCWK-	Social Work Elective	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
SCWK-413	Meth Research in SW I	3	SCWK-414	Meth. Research in S.W. II	3
SCWK-	Iss. in Soc. Serv. Del.	3	SCWK	Social Work Elective	3

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SCWK-450	Field Instruction I	6	SCWK-460	Senior Seminar	3
SCWK-	Social Work Elective	3	SCWK-451	Field Instruction II**	6
	Total Credits	15		Total Credits	15

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

Total Credits: 124
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

## **SOCIAL WORK (SCWK) (39)**

### **SCWK-101. INTRODUCTION TO SOCIAL WORK**

**3:3:0**

The course is an introduction to the field of social welfare and the profession of social work. The historical background within which social welfare arose provides the context for in-depth learning about specific social problem areas. The course serves to introduce prospective social work majors to the field of social welfare and social work, help them arrive at career decisions, and prepare for future social work courses. Students are introduced to generalist social work practice, empowerment, and a Black experience, as a means for providing the necessary beginning knowledge, values, and skills for working with individuals, families, groups, communities, and organizations.

Credit, three hours.

### **SCWK-191. UNIVERSITY SEMINAR I – SOCIAL WORK**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **SCWK-192. UNIVERSITY SEMINAR II – SOCIAL WORK**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **SCWK-201. ECONOMICS, POLITICS AND SOCIAL WELFARE**

**3:3:0**

The course provides an examination of the structure, function, and interaction of economics, politics, and social welfare. The interrelation between the nature and scope of economic and political systems is explored. Focus is on social welfare policies and programs within the context of economic and political demands. Selected social welfare problems are surveyed and examined. The course will apply the principles of political economy to the world of Social Work. What is the basis of this discipline and how can this method of inquiry enhance our understanding? What, how, and why do we do what we do as social workers?

Prerequisites: SCWK-101, or with consent of the Instructor.

Credit, three hours.

### **SCWK-302. HUMAN BEHAVIOR AND SOCIAL ENVIRONMENT I**

**3:3:0**

The course is the first in the two-course foundation--Human Behavior and Social Environment sequence. HBSE I emphasizes the significant biological, psychological, social, and spiritual developmental milestones during the life span stages of conception through childhood and their associated life events. It studies the various components of human behavior and social environment and provides a framework for studying the person-in-environment from an ecological approach. Designed for the generalist practitioner, the course explores multiple factors (e.g., socio-structural factors and human diversity) that shape the development of individual growth and social interaction and explores a range of theories. In addition, it provides a conceptual model for viewing behavior from a holistic perspective within the context of a Black Perspective, strengths perspective, empowerment, and professional values and ethics.

Prerequisites: Junior status, SCCJ-101, PSYC-201, or consent of the Instructor. Credit, three hours.

**SCWK-303. HUMAN BEHAVIOR AND SOCIAL ENVIRONMENT II****3:3:0**

The course is the second in a two-course foundation--Human Behavior and Social Environment sequence. HBSE II emphasizes the significant biological, psychological, social, and spiritual developmental milestones during the life span stages of adolescence through aging and their associated life events. It studies the various components of human behavior and social environment and provides a framework for studying the person-in-environment from an ecological approach. Designed for the generalist practitioner, the course explores multiple factors (e.g., socio-structural factors and human diversity) that shape the development of individual growth and social interaction and explores a range of theories. In addition, it provides a conceptual model for viewing behavior from a holistic perspective within the context of a Black Perspective, strengths perspective, empowerment, and professional values and ethics.

Prerequisites: SCWK-302.

Credit, three hours.

**SCWK-310. ELEMENTARY STATISTICS FOR SOCIAL WORK****3:3:0**

The course communicates the underlying statistical methods used in the analysis of social data. The course presents the basic concepts and assumptions of statistical theory applied in the logical development of statistical inferences. Descriptive and inferential statistics (parametric and nonparametric) are covered. Emphasis is on the interpretation of statistics in social work research, literature, and evaluation. It also emphasizes a generalist perspective in social work practice problem-solving/planned change process. Basic concepts include centrality, estimation of variability, probability and the normal distribution, precision of estimate, group differences, ANOVA, single subject design, regression, and correlation. Computation problems and examples will be keyed to generalist social work practice as aids in developing an understanding of substantive material presented.

Prerequisites: Completion of Math General Education Requirements.

Credit, three hours.

**SCWK-311. INTRODUCTION TO GROUP DYNAMICS****3:3:0**

The course focuses on the nature of groups, group development, and the interrelations between and among groups and individuals, other groups, and larger entities. The course's goal is that students understand the relevance of small group theory and research to social work practice with groups and develop an understanding of group phenomena that will facilitate their growth and effective functioning as a group leader. The course focuses on various aspects of group life including group goals, leadership, cohesion, communication and interaction patterns, roles, status and norms, culture, and stages of group development. Through readings, lectures, class discussions, and experiential learning, students integrate theory and practice of group process.

Prerequisites: Junior status.

Credit, three hours.

**SCWK-315. SOCIAL WELFARE POLICIES AND PROGRAMS I****3:3:0**

The course is the first in a two-course foundation policy sequence. It provides a framework for the understanding of social welfare policies and programs as well as the historical and contemporary forces that have shaped their development. The parallel historical development of the profession of social work, including the ways it responded to the demands of social problems across key periods of social welfare policy transformations, will be examined. The course also focuses on the role of the social work generalist in integrating the concepts of social and economic justice, a Black perspective, empowerment, advocacy, and social action, and on how these concepts have impacted the experiences of populations at risk. It introduces a framework for social policy analysis.

Prerequisites: Junior status, SCWK-101, SCWK-201.

Credit, three hours.

**SCWK-316. SOCIAL WELFARE POLICIES AND PROGRAMS II****3:3:0**

The course is the second in a two-course foundation policy sequence. Consistent with the generalist perspective to social work practice, the purpose of this course is to ensure that the student is able to analyze social welfare policies within a specific conceptual framework. The course will help students to apply the framework of analysis to study and evaluate various social welfare policies. To this end, students will examine residual and universal social welfare benefits and related policies regarding their goals, recipients, entitlements, how social welfare programs are financed, and their effectiveness and adequacy, etc. The course will also examine the degree to which the concept of social and political justice bears on the nature and scope of social welfare programs and the policies that govern them. Particular emphasis will be placed on policies that address poverty racially oppressed groups and other populations at risk that have become central issues in the analysis of the welfare system. Managed care, welfare reform, privatization, and political ideologies will be discussed within the context of their significance in any analysis of social welfare programs and related policies of the millennium.

Prerequisites: SCWK-315.

Credit, three hours.

**SCWK-341. SEMINAR IN HELPING****3:3:0**

The course is the first in a five-course practice sequence. The course gives the student an overview of generalist practice including knowledge about entry-level skills for the worker in activities and transactions with systems of all sizes (individuals, families, groups, organizations, and communities). In this course, the generalist approach to social work practice will be introduced by both technological and traditional methods of instruction. Content to be highlighted includes systems theory and an ecological perspective. Students will become familiar with the problem-solving/planned change process of: engagement and problem identification, data collection, assessment and planning, intervention, evaluation, termination, and follow-up. Within the context of a Black perspective and the philosophy of empowerment, application of social work values and ethics, promotion of social and economic justice, and service to diverse groups will be highlighted as they pertain to each topic.

Prerequisites: Second semester sophomore status.

Core Requisites: SCWK-101, SCWK-201.

Credit, three hours.

**SCWK-342. SOCIAL WORK PRACTICE SEMINAR I****3:3:0**

The course builds on the knowledge base of generalist social work practice that was covered in the preceding practice course, Seminar in Helping, and is structured as an experiential laboratory for skill development. Students will begin to develop practice skills for the appropriate application with different size client systems (individuals, groups, families, communities, and organizations) with diverse populations. Emphasis is on skills, which promote social and economic justices as well as serve diverse groups within the context of a Black perspective, strengths perspective, empowerment, and professional values and ethics.

Prerequisites: Junior status with a declared Social Work major, SCWK-341.

Credit, three hours.

**SCWK-401. RACE AND ETHNIC DISPARITIES IN SERVICE DELIVERY SYSTEMS** **3:3:0**

The course examines the ways in which oppression and discrimination are institutionalized in various sectors of society and their effect on racial and ethnic groups. It explores the multiple faceted experience of being a person of color and/or a specific ethnic group. Institutional forces (economic, educational, familial, political, and social) that influence the structure and status of racial and ethnic groups are examined. Particular attention will be given to racial and ethnic disparities in the health care delivery systems. Emphasis is on connections among forms of oppression, the ideology of domination and subordination which perpetuates oppressions, and the role of social work in utilizing appropriate strategies in challenging oppression and fostering social change.

Prerequisites: SCWK-101, SCWK-302, junior status, or consent of the Instructor.

Credit, three hours.



**SCWK-402. FAMILY VIOLENCE****3:3:0**

The course examines violence in the family, including child, spousal, sexual, and elderly abuse. Violence in America and other countries will be explored and compared. Emphasis will be on determining mechanisms, therapies, and techniques, not only for treating the abuser and the abused, but also for preventing violence in the family.

Prerequisites: SCWK-101, PSYC-201, junior status, or consent of the Instructor.

Credit, three hours.

**SCWK-405. OCCUPATIONAL SOCIAL WORK****3:3:0**

The course is designed to introduce students to the field of occupational social services. Content includes: an overview of the world of work; the history of occupational social welfare, organizational and structural arrangements of business, labor, and trade unions; and the various social work roles in industrial settings. Programs in mental health and substance abuse will be examined. Issues affecting special groups (e.g., women, minorities, and physically and mentally challenged) will be discussed.

Prerequisites: Junior status.

Credit, three hours.

**SCWK-407. INTEGRATING FAMILY AND SOCIAL SERVICE DELIVERY SYSTEMS IN EDUCATION****3:3:0**

A study of parent-school involvement from an interdisciplinary approach. The course explores home-school collaboration from a holistic viewpoint using historical, educational, and psychological, ethnic/social diversity, and sociological perspectives. The requirements, challenges, and opportunities as well as the roles and functions of social workers and early childcare teachers within a complex ecological system of home/school/community will be examined, differentiated, and compared. Students will be offered experiential opportunities to gain awareness and knowledge of social policies and governmental initiatives as well as community agencies that support families and children and the implications for prevention and/or intervention with a variety of systems.

Prerequisites: SCWK-201, SCCJ-101, senior status, or consent of the Instructor. PSYC-201, EDUC-206. Admission to TEP status.

Credit, three hours.

**SCWK-413. RESEARCH AND EVALUATION METHODS I****3:3:0**

Research and Evaluation Methods I is the first segment of a two-semester sequential course in the baccalaureate social work research curriculum. The course engages students in scientific inquiry within the context of generalist social work practice and social problems. The course examines ways in which theoretical models underpin knowledge and skills for the application of methods germane to generalist social work practice. It examines processes involved in research methodologies useful in studying individuals, families, groups, organizations, and communities. Emphasis is directed toward framing hypothesis, research design, measurement, and analysis. Continued consideration is given to the logic of variable conceptualization operationalization analysis or any introductory statistics course.

Prerequisites: SCWK-310.

Credit, three hours.

**SCWK-414. RESEARCH AND EVALUATION METHODS II****3:3:0**

Research and Evaluation Methods in Social Work Practice II is the second course in a two-course foundation research sequence. At this level, students become active participants in conducting self-directed social work research. Additionally, students continue to deepen and extend their knowledge and skills as they relate to social work research and evaluation at the generalist practice level. Substantive topics include: techniques and tools involved in data analysis; techniques used in summarizing and describing data; basic concepts of statistical testing – probability, sampling distributions, statistical inference; and the use of selected statistical tests that are utilized by generalist practitioners to provide answers to practice questions. Focus will also be on the application of research methods to the evaluation of social programs and assessment of empirically based practice models. In follow-up to Research in Social Work Practice I, the course continues to explore social research as a means for promoting a Black perspective, strengths perspective, and for attending to cultural diversity and social and economic justice for all, especially populations-at-risk.

Prerequisites: SCWK-413.

Credit, three hours.

**SCWK-421. ISSUES IN SOCIAL SERVICE DELIVERY****3:3:0**

The course is the fourth in a five-course practice sequence. The content material is designed to address the basic and emerging issues in the broad area of service delivery. Emphasis is on the generalist social work practitioner working with micro, mezzo, and macro systems that reflect a broad-spectrum population at risk and diverse racial ethnic, sexual, gender, and cultural backgrounds and settings. The course also addresses social and practice issues such as perspectives on cultural competency, sexual orientation, social change, and advocacy, which are explored within the context of social work roles, responsibilities, and functions. Additionally, issues related to organizational culture, policies, and programs in a practice environment are assessed as to their mission and relevancy to the populations served. A Black perspective, strengths perspective, and empowerment serve as a framework for examining service delivery programs.

Prerequisites: SCWK-101, SCWK-341, SCWK-342, SCWK-441, senior status with a declared Social Work major, current enrollment in SCWK-450. Open to Social Work majors only.

Credit, three hours.

**SCWK-423. ETHICS IN SOCIAL WORK****3:3:0**

The course presents conceptual perspectives of social work ethics, the major theories of deontology and teleology, and decision making models for identifying, understanding, analyzing, and resolving ethical dilemmas in social work generalist practice. The framework for ethical practice will be based on the values, principles, and standards of the NASW Code of Ethics. Additional approaches (e.g., situational, religious, and feminist) and professional codes of conduct (e.g., NABSW, and International Federation of Social Workers) as well as legal considerations (laws and court case decisions) will also be covered. The course reviews the history and evolution of values and ethics in the social work profession and examines the impact of personal values, attitudes, and beliefs on professional behavior. It explores major risk areas such as including clients' rights, confidentiality, informed consent, boundary issues and dual relationships, documentation/records, referrals, and professional impairment. Building upon a Black Perspective, empowerment, social justice, and eco-systems theory, the course will address ethical situations and dilemmas in strengths-based generalist practice with diverse client systems emphasizing those who are oppressed and/or from populations-at-risk.

Prerequisites: Junior status. For Social Work majors: SCWK-341, SCWK-342. For non-Social Work majors: consent of the Instructor.

Credit, three hours.

**SCWK-440. WELFARE OF CHILDREN****3:3:0**

The course reviews historical perspectives of approaches to child welfare in the context of today's law, programs, services, and funding. It examines the complexity of government responsibility for service delivery. It explores the differentials of the public-private systems as they are reviewed in the traditional child welfare settings handling abused, dependent, neglected, and delinquent children. It utilizes a family-centered perspective and examines the shift in emphasis from separation of children from the families to innovative and creative approaches to keep the children. The course addresses issues of law and funding, the related systems of mental health and education, services for a child and his or her family, and the impact of advocacy groups on child welfare policy with implications for the social work practitioner. This field of practice is explored in the context of generalist social work practice, a Black perspective, strengths, and social work values and ethics.

Prerequisites: Junior status.

Credit, three hours.

**SCWK-441. SOCIAL WORK PRACTICE SEMINAR II****3:3:0**

The course is the third in a five-course practice sequence. It provides more in-depth knowledge of social work practice with individuals, families, groups, organizations, and communities in diverse practice situations. It also introduces students to various practice theories and models (e.g., crisis theory, task centered, role theory, cognitive-behavioral theory, and empowerment theory). Students will be provided with an opportunity to acquire a greater knowledge of the problem solving/planned change process (a range of assessment tools as well as various intervention strategies), and the criteria necessary for choosing appropriate social work practice interventions. Practice issues such as alternative practice paradigms and health considerations are emphasized within the context of a Black perspective, strength perspective, empowerment, and social work values and ethics. Students are provided an opportunity to practice leadership skills through classroom activities, exercises, and group processes. Technological approaches are utilized throughout the course.

Prerequisites: Junior status with a declared Social Work major, SCWK-101, SCWK-341, SCWK-342, or consent of the Instructor and Program Director. Open to Social Work majors only.

Credit, three hours.

**SCWK-450. FIELD INSTRUCTION I****6:0:0**

Students are placed in a social work agency for their first practical experience and are afforded an opportunity to integrate theory and knowledge base of social work learned in class with the actual setting of the social work field. Agencies selected for use as field placements are those that are committed to the value of training undergraduate social work students for generalist practice, and have indicated a willingness to actively structure a number of learning experiences for students. Agency Field Instructors have met the criteria set by the Council of Social Work Education. Students are responsible for making their transportation and housing arrangements.

Prerequisites: Senior status, all prior required Liberal Arts; corequisites, and Social Work courses as defined by the Social Work program (see Curriculum Plan). Open to admitted Social Work majors only.

Credit, six hours.

**SCWK-451. FIELD INSTRUCTION II****6:0:0**

The course continues the experiential practice opportunities in a social service agency approved by the program. Students are exposed to continued in-depth correlation of theory and practice for entry-level generalist practice in the employment field. Agencies selected for use as field placements are those committed to the value of training undergraduate social work students for generalist practice and who have indicated a willingness to actively structure a number of learning experiences for students. Agency Field Instructors have met the criteria set by the Council of Social Work Education. Students are responsible for making their transportation and housing arrangements.

Prerequisites: SCWK-450, senior status, all prior required General Education; corequisites, and Social Work courses as defined by the Social Work program (see Curriculum Plan.) Open to Social Work majors only.

Credit, six hours.

**SCWK-460. SENIOR SEMINAR****3:3:0**

The course is designed to provide an integrative experience of class and field. Students are given an opportunity to: 1) assess prior learning, and 2) assess their learning needs, practice skills, and theoretical understandings. Primary focus is on integrating theory and practice building on their field experience. Focus is on the development of an individual social work practice frame of reference. Careers and graduate systems are explored with emphasis on knowledge, values, and skills for entry-level generalist practice and post baccalaureate education.

Prerequisites: SCWK-101, SCWK-341, SCWK-342, SCWK-441, SCWK-421, senior status with a declared Social Work major, current enrollment in SCWK-451. Open to Social Work majors only.

Credit, three hours.

**SCWK-462. SOCIAL WORK WITH AND FOR THE AGED****3:3:0**

The course is an overview of and an introduction to the field of gerontology and social work with and on behalf of older persons. Developmental stages of older persons are studied, and aging is presented as a normative aspect of the life cycle. From an ecological perspective, theories of aging and adaptation are reviewed. Based on this foundation, students explore interventions particularly suited to work with and for older persons at the individual, family, group, community, organizational, and policy levels. Issues of diverse groups (e.g., poor, females, and rural residents) are explored. Policies, programs, and services for the elderly are studied. The goal of this course is to prepare generalist social work practitioners to work with older clients and their families, and with service delivery systems addressing the needs of this clientele.

Prerequisites: Junior status.

Credit, three hours.

**SCWK-465. ALCOHOLISM AND OTHER ADDICTIONS****3:3:0**

The course introduces students to the field of addictions. The primary objective is to help social workers and other professionals understand the uses and abuses of licit and illicit drugs, addictive behavior (e.g., eating, gambling, and smoking), and the impact of addiction on individuals, families and society. The role of the helping professionals in the identification, prevention, treatment of these dependencies, and the social problems related to them, (e.g., racism, economic, gender, and cultural barriers) will be explored.

Credit, three credits.

**SCWK-469. HUMAN SEXUALITY AND SEX RELATED ISSUES****3:3:0**

The course explores the nature and varieties of human sexual expression, the reason and effect of societal controls, and the changing definitions of normal sexual behavior. The application of social work services to problems associated with human sexuality, treatment, and prevention are stressed.

Prerequisites: Senior status, or consent of the Program Director.

Credit, three hours.

**SCWK-470. INDEPENDENT STUDY****1-3:3:0**

The course provides the opportunity to undertake individual, in-depth, supervised study of a practice theory, specified course, or social issue.

Prerequisites: Senior status, prior written consent of the Instructor.

Credit, one to three hours.

**DEPARTMENT OF PUBLIC AND ALLIED HEALTH SCIENCES  
MOVEMENT SCIENCE MAJOR  
HEALTH PROMOTION MAJOR**

**Chair and Professor:** Dr. C. Murgia [cmurgia@desu.edu](mailto:cmurgia@desu.edu) (302) 857-6703  
**Associate Professor:** Dr. E. Jackson – [emjackson@desu.edu](mailto:emjackson@desu.edu) (302) 857-6709  
**Assistant Professor:** Dr. B. Fralinger – [bfralinger@desu.edu](mailto:bfralinger@desu.edu) (302) 857-6604  
**Instructor:** Mr. M. Holmstrup – [mholmstrup@desu.edu](mailto:mholmstrup@desu.edu) (302) 857-6711  
Ms. C. Cordrey – [ccordrey@desu.edu](mailto:ccordrey@desu.edu) (302) 857-6703  
**Professional Staff:** A. Shorter – [ashorter@desu.edu](mailto:ashorter@desu.edu) (302) 857-6615  
**Professional Staff:** A. Holmstrup – [aholmstrup@desu.edu](mailto:aholmstrup@desu.edu) (302) 857-7689  
**Secretary:** Mrs. Geri Clarke [gclark@desu.edu](mailto:gclark@desu.edu) (302) 857-6703  
**Budget Analyst:** Mrs. J. Johnson [jjohnson@desu.edu](mailto:jjohnson@desu.edu) (302) 857-6703

**ABOUT THE DEPARTMENT**

The Department of Public and Allied Health Sciences is a unique interdisciplinary department that prepares students for a wide variety of careers, graduate education, and professional health education. The Department is composed of two unique, yet related majors: Movement Science and Health Promotion. Regardless of the selected major and concentration, students must complete the General Education Program as required of all University students (See General Education Requirements).

**MOVEMENT SCIENCE MAJOR**

The Movement Science major's theoretical and experiential approach enables students to develop the knowledge, skills, and abilities required for careers and graduate education in fitness, wellness, movement science, kinesiology, exercise science, and human performance. In addition, it provides students with the undergraduate degree and courses required for admission to graduate health professional education programs including, but not limited to: medicine, osteopathic medicine, dental medicine, physician's assistant, physical therapy, occupational therapy, physician's assistant, medicine, chiropractics, podiatry, entry level Masters Certification programs in athletic training, etc. and graduate education in exercise science, movement science, kinesiology, motor behavior, and human performance. Regardless of the selected concentration, students are provided with opportunities to shape and practice ethical behaviors relative to fitness and allied health professions. The goal of the experiential component is to provide students with an opportunity to develop "applied skills" and acquire best practices in a service-oriented manner.

The Movement Science Bachelor of Science degree offers two concentrations: 1) Fitness and Strength Certification Concentration, which prepares students to sit for and successfully pass certification exams required for immediate employment in senior positions in the field upon graduation and 2) Pre-Health Professional Concentration, which provides students with the requirements necessary for admission to a variety of graduate health professional programs. Upon graduation students are expected to possess the professional knowledge, skills, values, dispositions, and experiences required in allied health professions where under-represented populations are not found in large numbers.

The Movement Science major consists of a combination of classroom lectures, laboratory work, service-learning, and community outreach experiences. Students learn the most current technologies and

techniques used in the profession and engage in more than 150 hours of experiential learning via course-embedded laboratory practice, service-learning, internships, and volunteer experiences. The students gain practical, workplace-ready skills, including: health and fitness appraisals, exercise testing and prescription, risk management, interpersonal communication, socio-cultural competency, and teamwork. Students are provided with opportunities to work with individuals of different ages and cultures, skill levels, fitness status, and physical capabilities. Graduates of the Fitness and Strength Certification Concentration are fully prepared to sit for and successfully pass the certification exams of the American College of Sports Medicine and the National Strength and Conditioning Association. In addition, students in this track are prepared for admission to graduate programs in Kinesiology and Movement/Exercise Science disciplines, such as Exercise Physiology, Biomechanics, Motor Behavior, entry level Masters programs in Athletic Training Certification, and Occupational Therapy. Graduates of the Pre-Health Professional Concentration are prepared to meet admission requirements for Health Professional graduate education including, Physical Therapy, Physician's Assistant, Chiropractics, and Medicine. In addition to acquisition of prerequisites typically required by graduate health education programs, graduates of the Pre-Health Professional Concentration gain experience in the use of instrumentation typically used to assess injury, injury mechanisms, proprioception, rehabilitation progress, and performance.

Movement Science students in both concentrations are encouraged to participate in research and publication. While on campus, students have access to the Exercise Physiology, Rehabilitation, and Movement Analysis Research Laboratories, as well as the newly opened, state-of-the-art Recreation and Wellness Center.

#### **Requirements for Admission to the Program.**

Students seeking admission to the major are required to have a 2.5 GPA. International students must submit a satisfactory TOEFL score minimum of 600 on the paper based test, 270 on the computer based test, and 110 on the international test. This program is offered in English only. All tests, papers, and projects require submission in English.

### **HEALTH PROMOTION MAJOR**

The Health Promotion graduate possesses a unique marketable set of skills required for employment in public health agencies, private and non-profit agencies, worksite health promotion offices, HIV prevention, and many other public health related careers.

The Health Promotion major equips students with the knowledge, skills, dispositions and qualities required for work in diverse public and community health career settings. Graduates of this major can apply the science, theory, and practice of public health toward the enhancement of health status in the community. Health Promotion students participate in academic and applied training in program planning and implementation, program evaluation, policy analysis, research and management.

This major gives students the strong foundation needed for careers in private and public sectors, particularly public health agencies, volunteer programs, business and industry. It prepares students for graduate education in Public Health, Epidemiology, Community Health Education, School Health Education, Occupational Health, and Chronic Disease Prevention. The Bachelor of Science in Health Promotion degree provides a solid background in health science, including public health education and policy, public health informatics, community health promotion in the work place, chronic disease management, health issues, human sexuality, mental health, nutrition, disease and injury prevention, substance use and abuse, environmental health, consumer health, personal health, and epidemiology. This major provides opportunities for students to acquire skills in: needs assessment; program planning,

implementation, and administration; program assessment; advocacy; health education and health promotion services coordination; resource management; policy, and research.

### **Requirements for Admission to the Program.**

Students seeking admission to the major are required to have a 2.5 GPA. International students must submit a satisfactory TOEFL score minimum of 600 on the paper based test, 270 on the computer based test, and 110 on the international test. This program is offered in English only. All tests, papers, and projects require submission in English.

### **SENIOR CAPSTONE PROJECT**

The Movement Science and the Health Promotion majors culminate in a senior capstone project. The Movement Science capstone project permits students to select a research project, literature review, or internship, which enables them to apply their knowledge in a practical real-world setting. The Health Promotion capstone project is a twelve (12) credit practicum in the field. Regardless of the major or concentration, students are required to write an extensive report and to display their work in a final oral presentation.

### **LIFETIME FITNESS AND WELLNESS**

All Delaware State University students must successfully complete a Lifetime Fitness and Wellness course during their first year of study. This course combines instruction in and practice of physical activity, healthier food selection, sexual wellness, mental health, and the effects of chronic disease, stress, drugs and alcohol. Students are assessed for baseline health using the Polar Tri-Fit system at the beginning of the semester and are followed for the remainder of the stay at Delaware State University\*. Students are required to participate in and document physical activity. Health risk appraisals and ongoing assessments are integrated into the course, which carries two hours of graded academic credit. This course is a required course in the General Education core and is applied toward the credit total for graduation regardless of major. An ancillary activity of Lifetime Fitness and Wellness, *Healthy Hornets*, provides all students, faculty, staff, and administrators with access to baseline health risk appraisals and personal training consultations.

### **LABORATORIES**

The *Movement Analysis Laboratory*, which is located in Delaware Hall, Room 130, provides students with opportunities to engage in Movement Science course encumbered activities and research. The research conducted in this laboratory includes biomechanical and neuromuscular factors associated with musculoskeletal function, postural stability, musculoskeletal disease, injury and rehabilitation. The laboratory houses a 12-camera motion capture system, 2-force platforms, 2-8-channel EMG systems, force instrumented treadmill, virtual reality system, isokinetic machine, gait trainer, offset un-weighting device, energy expenditure monitors, and balance trainer.

This *Exercise Physiology Laboratory*, which is located in Memorial Hall, Room 101, is designed to enhance teaching and learning with the more applied aspects of exercise physiology in the Movement Science program. It contains a variety of equipment that is commonly used in clinical fitness and wellness settings. Equipment includes: BodPod, 2-metabolic carts and spirometry units, 2-

electrocardiography carts, Holter monitors, treadmills, cycle ergometers, skinfold calipers, heart watch monitors, pressure cuffs, sphygmomanometers, etc.

## **RESEARCH**

The faculty is engaged in a variety of research activities including: neuromechanical aspects of injury prevention and rehabilitation, chronic disease prevention, physical activity interventions, overweight and obesity prevention and intervention across the lifespan, physical activity intervention across the lifespan, and behavioral aspects of exercise participation and compliance.

## **COMMUNITY ENGAGEMENT**

The Department participates in a variety of community outreach activities, including, but not limited to: community health fairs and health education workshops, sports nutrition education, strength and speed conditioning workshops, and in-depth health, fitness, and biomechanical assessments. These services are offered by the Department faculty and as student service learning activities that are supervised by the Department faculty.

## **DEPARTMENT MISSION**

Consistent with the University's Mission and Goals, the mission of the Department of Public and Allied Health Sciences, is to prepare undergraduates for careers and graduate education in movement/exercise science, kinesiology, human performance, allied health disciplines, public health and community health. Graduates of these majors are provided with theoretical, laboratory, research, service learning, clinical, and community service opportunities to advance knowledge, ethical practice, and service in future endeavors. The Department provides the potential for current and meaningful interaction among its constituents, the campus community, and the community at-large through the use of educational and research methodologies, service learning, and community service activities. Moreover, the Department promotes and provides programs which seek to remedy current under-representation of minorities in allied health, fitness and wellness, exercise/movement science, kinesiological, allied health, community health, and public health professions. The Department is dedicated to meeting the educational and professional preparation needs of individuals who plan to interface with the diverse and ever-changing society of the 21st century.

## **DEPARTMENT PHILOSOPHY**

The philosophy of the Department of Public and Allied Health Sciences is to develop effective and ethical practitioners, clinicians, and researchers who possess comprehensive content knowledge, practice and ethical behaviors; utilize appropriate assessment procedures and techniques; demonstrate effective interpersonal communication skills; display the ability to problem solve and develop strategies for successful outcomes; employ technology in a variety of settings; and apply successful strategies through proven models of research, best practices, and service.



## **DEPARTMENT'S BELIEFS**

The faculty believes that every major in the Department should have access to a program of high quality that prepares its constituents for careers in the fitness and wellness industry and post graduate education in movement/exercise science, kinesiology, human performance, allied health disciplines, community health, and public health disciplines. In addition, the faculty believes that every graduate should:

- Demonstrate proficiency in the content area in which he or she elects to specialize.
- Provide evidence of professional and ethical disposition and a broad spectrum of instructional knowledge, skills, and values.
- Exhibit the ability to work effectively within our nationally and internationally diverse society.
- Display a wide range of communication skills, including writing, speaking, and listening.
- Demonstrate the ability to apply knowledge, skills, and values by engaging in critical thinking and problem solving activities and critical analysis for successful outcomes.
- Provide evidence of the ability to translate research findings into meaningful practical applications.
- Exhibit technological and information literacy, conduct literature searches and use technology for the advancement of knowledge, practice, and service.
- Display an understanding that their selected interdisciplinary discipline is a dynamic process, which is knowledge-based, comprehensive and continuous, and requires discourse among colleagues.

## **EDUCATIONAL POLICY**

The Department of Public and Allied Health Sciences faculty of Delaware State University models instruction, experiences, service learning, and community engagement, and utilizes —Best Practices” in its delivery of instruction. Thus, Movement Science students are actively engaged in lecture, laboratory experiences, and campus and community service activities, and faculty-directed student research, all of which embrace the concerns of a diverse, changing global society. Health Promotion classes actively engage students through program planning, implementation, and assessment, research activities, observation and fieldwork, practicum, and internships. Problem solving activities provide students with the opportunity to explore real life situations, which present opportunities to develop skills to adapt to new problems and issues. The Department provides equipment, facilities, experiences, and instruction to facilitate optimal learning and community engagement.

## **ACADEMIC MAJORS AND CONCENTRATIONS**

### **Movement Science**

Students who select the Movement Science major may pursue one of two concentrations: Fitness and Strength Certification or Pre-Health Professional. The Fitness and Strength Certification concentration provides students with an educational and experiential foundation that incorporates lecture, laboratory, practice, and service learning experiences to prepare them to sit for and successfully pass the American College of Sports Medicine and National Strength and Conditioning Association certification exams.

Graduates with a Fitness and Strength Concentration in Movement Science will have the knowledge, skills, and abilities (KSA's) to be employed in fitness and wellness environments, cardiac rehabilitation

facilities, strength and conditioning centers, and related career environments upon graduation. With this degree, graduates have the KSA's to work with clients of all ages and fitness levels, including athletes, children, adults, and the elderly. Career options include, but are not limited to:

- Personal Trainer,
- Health & Fitness Specialist
- Inclusive Fitness Trainer
- Cancer Exercise Trainer
- Physical Activity in Public Health Specialist
- Exercise Test Technologist,
- Group Exercise Instructor,
- Strength and Conditioning Specialist/Coach,
- Health and Fitness Director
- Clinical Researcher,
- Laboratory Technician,
- Research Assistant,
- Movement Analyst, and
- Research Scientist.

In addition, the curriculum prepares students for post graduate education in a variety of disciplines including, but not limited to:

- Exercise Physiology,
- Biomechanics,
- Motor Behavior,
- Kinesiology,
- Exercise Science,
- Health and Human Performance
- Athletic Training,
- Occupational Therapy, and
- Therapeutic Recreation.

The Pre-Health Professional concentration provides students with an educational and experiential foundation that incorporates lecture, laboratory, practice, and service learning experiences to prepare them to meet requirements for admission to Allied Health Professional graduate programs\*, including, but not limited to:

- Physical Therapy,
- Occupational Therapy,
- Physician's Assistant,
- Doctor of Medicine,
- Doctor of Osteopathy
- Doctor of Podiatric Medicine,
- Doctor of Chiropractics and other professional allied health career programs.

\* Movement Science graduates who are interested in careers in Athletic Training, Occupational Therapy, Physical Therapy, Physician's Assistant, Chiropractics, Medicine, or other related allied health

professions, must attend professional post-baccalaureate professional schools to obtain the knowledge, skills, abilities, and clinical experiences required to successfully pass examinations required for licensure.

### **Health Promotion**

The Health Promotion graduate possesses a unique marketable set of skills required for employment in public health agencies, private and non-profit agencies, worksite health promotion offices, and many other public health related careers. Graduates with a B.S. degree in Health Promotion have a variety of diverse employment opportunities. A few examples are:

- Bioterrorism Prevention Specialist,
- State Immunization Program Coordinator,
- Community Outreach and Case Manager, Family Planning Agency,
- Project Officer, National Geological Survey,
- STD Prevention Specialist,
- Diabetes Prevention Program Specialist,
- Food and Restaurant Inspector,
- HIV Educator and Prevention Specialist,
- Case Management Supervisor,
- Nutrition Coordinator, Senior Center,
- Tobacco Prevention Specialist,
- Project Officer, Lead Screening Program,
- Managed Care Coordinator,
- Employee Wellness Coordinator, and
- Infectious Disease Epidemiologist.

**B.S. DEGREE IN MOVEMENT SCIENCE – FITNESS & STRENGTH CERTIFICATION**  
**Effective Fall 2011**

<b>Freshman Fall Semester</b>			<b>Freshman Spring Semester</b>		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Comp I*	3	ENGL-102	English Comp II*	3
MTSC-___	Mathematics	3	MVSC-124	Exercise Leadership	3
HIST-___	History	3	SCCJ-___	Sociology or Equivalent	3
MVSC-101	Lifetime Fitness & Wellness	2	___-___	Elective	3
MVSC-191	University Seminar I	1	MVSC-192	University Seminar II	1
MVSC-110	Introduction to Movement Science	1	PSYC-201	Introduction to General Psychology	3
	Total Credits	13		Total Credits	16
<b>Sophomore Fall Semester</b>			<b>Sophomore Spring Semester</b>		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-___	Literature	3	MVSC-218	Sport & Fitness Nutrition	3
ENGL-200	Speech	3	MVSC-361	Sport Biomechanics	3
MVSC-201	Anatomy & Physiology I	4	MVSC-202	Anatomy & Physiology II	4
___-___	Arts/Humanities	3	MVSC-255	Introduction to Motor Learning & Motor Control	3
MVSC-210	Psychology of Physical Activity	3	___-___	Arts/ Humanities	3
	Total Credits	16		Total Credits	16
<b>Junior Fall Semester</b>			<b>Junior Spring Semester</b>		
Course	Course Name	Cr	Course	Course Name	Cr
MVSC-___	MVSC Elective	3	GLOB-395	Global Societies	3
MVSC-355	Physiology of Exercise	3	MVSC-362	Exercise Testing & Prescription	3
MVSC-360	Musculoskeletal Biomechanics	3	MVSC-___	MVSC Elective	3
MVSC-___	MVSC Elective	2-3	MVSC-365	Research Design and Quantitative* Software Applications in Movement Science	3
MVSC-470	Movement Analysis*	3	MVSC-___	MVSC Elective	2-3
	Total Credits	14-15		Total Credits	14-15
<b>Senior Fall Semester</b>			<b>Senior Spring Semester</b>		
Course	Course Name	Cr	Course	Course Name	Cr
MVSC-463	Neuromuscular Adaptation to Strength Training & Conditioning	4	MVSC-465	Population Specific Exercise Intervention	3
MVSC-___	MVSC Elective	2-3	MVSC-___	MVSC Elective	2-3
MVSC-___	MVSC Elective	2-3	MVSC-___	MVSC Elective	2-3
MVSC-466	Health & Fitness Specialist	3	MVSC-480	Movement Science Seminar**	6
MVSC-461	Prevention & Care of Athletic Injury	3			
	Total Credits	14-16		Total Credits	13-15

**A grade of C or better must be earned in all courses**

**Certification in First Aid & CPR required by end of 2<sup>nd</sup> Year**

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

**Total Credits: 120**

**The Major's Across-the-Curriculum Guide must be consulted for General Education requirements/options.**

**B.S. DEGREE IN MOVEMENT SCIENCE - PRE-HEALTH PROFESSIONAL**  
**Effective Fall 2011**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Comp I*	3	ENGL-102	English Comp II*	3
BIOL-101	General Biology I	4	BIOL-102	General Biology II	4
MVSC-101	Lifetime Fitness & Wellness	2	CHEM-101	General & Analytical Chemistry I	4
MTSC-___	College Algebra or Equivalent	3	MVSC-124	Exercise Leadership	3
MVSC-191	University Seminar I	1	MVSC-192	University Seminar II	1
MVSC-110	Introduction to Movement Science	1	PSYC-201	Introduction to General Psychology	3
	Total Credits	14		Total Credits	18
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
CHEM-102	General & Analytical Chemistry II	4	ENGL-___	Literature	3
MVSC-210	Psychology of Physical Activity	3	SCCJ-___	Sociology or Equivalent	3
HIST-___	History	3	MVSC-255	Introduction to Motor Learning & Motor Control	3
MVSC-201	Anatomy & Physiology I	4	MVSC-202	Anatomy & Physiology II	4
___-___	Elective (Trigonometry or Equivalent is recommended)	3	MVSC-361	Sport Biomechanics	3
	Total Credits	17		Total Credits	19
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	GLOB-395	Global Societies	3
PHYS-111 or 201	Physics I	4	PHYS-112 or 202	Physics II	4
MVSC-360	Musculoskeletal Biomechanics	3	___-___	Arts/ Humanities	3
MVSC-355	Physiology of Exercise	3	MVSC-362	Exercise Testing & Prescription	3
MVSC-470	Movement Analysis*	3	MVSC-365	Research Design and Quantitative* Software Applications in Movement Science	3
	Total Credits	16		Total Credits	16
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MVSC-463	Neuromuscular Adaptation to Strength Training & Conditioning	4	MVSC-465	Population Specific Exercise Intervention	3
MVSC-461	Prevention & Care of Athletic Injury	3	___-___	Elective (Organic Chemistry is recommended for Medical School)	3
MVSC-466	Health & Fitness Specialist	3	MVSC-480	Movement Science Seminar**	6
___-___	Arts/Humanities	3			
	Total Credits	13		Total Credits	12

**A grade of C or better must be earned in all courses**

**Certification in First Aid & CPR required by end of 2<sup>nd</sup> Year**

**\* Writing Intensive Course(s)**

**\*\* Senior Capstone**

**The Major's Across-the-Curriculum Guide must be consulted for General Education requirements/options.**

**Total Credits: 125**

## **MOVEMENT SCIENCE (MVSC)**

### **MVSC-101. LIFETIME FITNESS AND WELLNESS**

**2:2:1**

The course is designed to acquaint the undergraduate student with current and correct information concerning fitness and its components and wellness concepts. Lifetime fitness and wellness is a General Education core course providing life-long learning by addressing general information concerning fitness and wellness promotion, as well as HIV/AIDS, and drug abuse prevention.

Credit: two hours.

### **MVSC-110. INTRODUCTION TO MOVEMENT SCIENCE**

**1:1:0**

This course offers a basic introduction to movement science foundational principles from different perspectives. Student will be provided with information about career opportunities, professional organizations, and resources available in the pre-health, health professional, kinesiology, and fitness industry and education.

Credit: one hour.

### **MVSC-124. EXERCISE LEADERSHIP**

**3:3:0**

Health and fitness professionals work in diverse settings and with diverse populations. The course introduces methods for presentation of fitness concepts, activities, and assessments, including baseline fitness levels and health risk appraisals. Students will be prepared to teach physical activities and present assessment results to clients.

Prerequisites: MVSC110

Credit: three hours.

### **MVSC-191. UNIVERSITY SEMINAR I – PAHS**

**1:2:0**

University Seminar is a two-semester General Education course sequence that develops academic skills including critical reading, thinking, writing, speaking, and computer and information literacy. The goals and objectives of the General Education Program are introduced in these courses and subsequently embedded across the curriculum in each of the majors and selected concentrations. Class activities provide each student with the opportunity to cultivate the skills and knowledge necessary to become a life-long learner. A global, multi-cultural perspective is used to discuss moral and ethical issues, values, peer pressure, wellness, nutrition, and health issues. Other goals of this course are: knowledge of the University's history, development of the sense of University community, and a shared common educational experience with other freshmen.

Credit: one hour.

### **MVSC-192. UNIVERSITY SEMINAR II – PAHS**

**1:1:0**

University Seminar is a two-semester General Education course sequence that develops academic skills including critical reading, thinking, writing, speaking, and computer and information literacy. The goals and objectives of the General Education Program are introduced in these courses and subsequently embedded across the curriculum in each of the majors and selected concentrations. Class activities provide each student with the opportunity to cultivate the skills and knowledge necessary to become a life-long learner. A global, multi-cultural perspective is used to discuss moral and ethical issues, values, peer pressure, wellness, nutrition, and health issues. The second semester course focuses on career and graduate school information, resume development, and development of communication skills. Other goals of this course are: knowledge of the University's history, development of the sense of University community, and a shared common educational experience with other freshmen.

Credit: one hour.

### **MVSC-201. HUMAN ANATOMY AND PHYSIOLOGY I**

**4:3:1**

These foundation courses are designed to provide fundamental knowledge of the structure and function of the systems of the human body. This first course of the two-semester course sequence presents the study of human anatomy and physiology at the cell, tissue, and organ system levels of organization. An emphasis is placed on anatomical terminology, integumentary, skeletal, muscular, nervous, and endocrine systems. This second course of the two-semester course sequence focuses on topics, which include the cardiovascular, lymphatic, respiratory,

digestive, urinary, reproductive systems, human immunity, electrolytes and water balance, and human growth and development. Both courses consist of three (3) hours of lecture and one (1) one-hour of laboratory per week.  
Credit: four hours each semester.

#### **MVSC-202. HUMAN ANATOMY AND PHYSIOLOGY II**

**4:3:1**

These foundation courses are designed to provide fundamental knowledge of the structure and function of the systems of the human body. This first course of the two-semester course sequence presents the study of human anatomy and physiology at the cell, tissue, and organ system levels of organization. An emphasis is placed on anatomical terminology, integumentary, skeletal, muscular, nervous, and endocrine systems. This second course of the two-semester course sequence focuses on topics, which include the cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive systems, human immunity, electrolytes and water balance, and human growth and development. Both courses consist of three (3) hours of lecture and one (1) one-hour of laboratory per week.  
Credit: four hours each semester.

#### **MVSC-210. PSYCHOLOGY OF PHYSICAL ACTIVITY**

**3:3:0**

This course will address theories of behavior change as they apply to physical activity participation and other health behaviors. There will be an emphasis on application to understand factors related to physical activity and exercise participation, and health behavior intervention planning to maximize adherence. Additionally, this course will address physical activity and exercise as they relate to psychological health issues. The course will be taught with an emphasis on application of concepts and the critical analysis of the scientific research.

Prerequisites: MVSC 110

Credit: three hours.

#### **MVSC-218. SPORT AND FITNESS NUTRITION**

**3:3:0**

The course is designed to present an overview of nutrition as it relates to physical activity. Course topics include carbohydrate, protein, fat, vitamin, mineral, and water requirements for fitness and sport. Popular nutritional supplements and ergogenic aids used by physically active individuals will also be discussed, along with an in-depth look into specific athlete's nutritional requirements for their given sport.

Credit: three hours.

#### **MVSC-255. INTRODUCTION TO MOTOR CONTROL AND MOTOR LEARNING**

**3:3:0**

The course introduces students to the principles related to learning and control of psychomotor skills. The course focuses on motor skill acquisition and control. Primary focus is placed on the cognitive and neuromuscular processes underlying acquisition of motor skills and neuromuscular factors related to skilled motor performance.

Credit: three hours.

#### **MVSC-355. PHYSIOLOGY OF EXERCISE**

**3:3:1**

The course is designed to provide students with a physiological perspective of how the human body responds, adjusts, and adapts to exercise. Course content includes study of energy transfer and energy expenditure at rest and during exercise, bioenergetics, contributions, and adaptations of the neuromuscular, pulmonary, and circulatory systems during exercise, environmental aspects (e.g., thermal stress, altitude, and microgravity) of physiology related to exercise performance, and body composition.

Prerequisites: MVSC-201 and MVSC-202.

Credit: three hours.

#### **MVSC-360. MUSCULOSKELETAL BIOMECHANICS**

**3:3:0**

The course examines the relationship between skeletal, muscular, and neurological structures and function in the production of movement. Functional relationships among anatomical structures are identified and applied to fundamental movement skills. Students are introduced to qualitative anatomical analysis and neuromuscular assessment of dance and sport skills.

Prerequisites: MVSC-201.

Credit: three hours.

**MVSC-361. SPORT BIOMECHANICS****3:3:0**

The course examines fundamental mechanical principles involved in the process of the production of human movement and optimization of performance. In addition to the identification of application of kinematics and kinetic principles to human movement, dance, and sport skills, the strength and mechanical properties of human tissues and equipment design are discussed. Students are introduced to qualitative and quantitative mechanical analysis of human movement.

Prerequisites: MVSC-201.

Credit: three hours.

**MVSC-362. EXERCISE TESTING AND PRESCRIPTION****3:3:1**

The course provides a comprehensive and advanced approach to health and fitness appraisal and exercise prescription for both healthy and special populations. The course is designed to provide a well-balanced approach to the assessment of health and physical fitness and the design and implementation of exercise programs, addressing cardio-respiratory endurance, muscular fitness, body weight and composition, and flexibility. Necessary modifications to assessment procedures and exercise prescription for special populations (e.g., peripheral arterial and pulmonary disease, diabetes, hypertension, obesity, arthritis, osteoporosis, pregnancy, and the elderly) will also be addressed. Three (3) lectures per week and integrated laboratory experiences.

Prerequisites: MVSC-355

Credit: three hours.

**MVSC-363. PHYSICAL ACTIVITY EPIDEMIOLOGY****3:3:0**

The course exposes students to epidemiological methods that are relevant to the study of physical activity. The course is intended to enhance students' ability to understand and apply epidemiological methods to physical activity-related research. Basic epidemiological study design, methods, and issues pertinent to the study of physical activity are presented early in the course. Subsequent classes are structured to provide opportunity for in-depth analysis and discussion of how epidemiological methods are used to study injury patterns and trends and physical activity behavior.

Prerequisites: MVSC-201 and MVSC-202.

Credit: three hours.

**MVSC-365. RESEARCH DESIGN AND QUANTITATIVE SOFTWARE APPLICATIONS 3:3:0**

The course examines and compares types of research design, statistical analysis, and software applications in movement science. Application of descriptive and inferential statistical techniques commonly used in movement science research, and relationships between research design and descriptive and inferential statistical applications are explored. Literature review, research protocol, statistical analysis, reporting techniques and APA formatting and reference styles are incorporated. This is a writing emphasis class.

Prerequisites: MVSC-362.

Credit: three hours.

**MVSC-370. RESEARCH EXPERIENCE IN MOVEMENT SCIENCE****1-6:1-6:1-6**

An opportunity to actively engage in a mentored research project in a Movement Science discipline. A scholarly report is required. The sequence begins in the spring semester of the junior year, laying the groundwork for development of a full research project.

Prerequisites: Second semester junior or senior standing in Movement Science

Credit: one to three hours each semester.

**MVSC-401. NEUROMECHANICS OF HUMAN MOVEMENT****3:3:0**

An introduction to the study of how the nervous system controls muscle activation and movement. Relationships among neural and muscle tissues, neural elements and force production, acute and chronic adaptations to stress, neural plasticity, neural elements of movement disorders, prevention of and recovery from injury will be discussed.

Prerequisites: MVSC-255, MVSC-360

Credit: three hours.



**MVSC-402. INTRODUCTION TO HUMAN TISSUE MECHANICS****3:3:0**

This course is an introduction to the biomechanical properties and behavior of human tissues and joints. Human tissue behavior under various loading conditions, including sitting, standing, gait and fundamental movement skills will be discussed. In addition, the development and etiology of fractures, strains, sprains and arthroplasty will be presented and discussed.

Prerequisites: MVSC-360, MVSC-361

Credit: three hours.

**MVSC-410. CLINICAL EXERCISE PHYSIOLOGY****3:2:1**

This course provides a comprehensive exposure to and experience in the clinical aspects of exercise physiology by exploring the relationship between exercise and chronic disease. The pathophysiology, medical and clinical considerations, as well as exercise prescriptions designed for specific diseases will be discussed.

Prerequisites: MVSC-355, MVSC-362, MVSC-365

Credit: three hours.

**MVSC-415. EXPERIMENTAL EXERCISE PHYSIOLOGY****3:2:1**

This course will provide students with knowledge of how environment (heat and cold exposure, microgravity, chronobiological factors, altitude, diving, pollution) can impact an individual's capacity to perform exercise and work. Students will be encouraged to participate in and conduct experiments designed to replicate these conditions in the laboratory setting and submit their findings in professional laboratory reports.

Prerequisites: MVSC-355, MVSC-362, MVSC-365

Credit: three hours.

**MVSC-461. PREVENTION AND CARE OF ATHLETIC INJURIES****3:3:0**

The course is designed to introduce roles of the sports medicine team, liability issues, and necessary skills and competencies required for evaluation, treatment, and rehabilitation of basic athletic injuries. The course includes the study of modern theories and principles of athletic training, injury mechanisms, fatigue, gender, nutrition related to injury prevention, and causes of the most common sports-related injuries.

Prerequisites: MVSC-362.

Credit: three hours.

**MVSC-463. NEUROMUSCULAR ADAPTATIONS TO STRENGTH TRAINING AND CONDITIONING****4:3:1**

The course provides an overview of the methods and techniques associated with the strength and conditioning of the cardiovascular and musculoskeletal systems. An emphasis will be placed on the acute and chronic adaptations to strength and conditioning programs, including novel methods such as, plyometrics, speed/agility/speed-endurance training, and core training. Application of theory will be implemented through practical lab experiences.

Prerequisites: MVSC-355, MVSC-362.

Credit: four hours.

**MVSC-464. ELECTROCARDIOGRAPHY****3:3:1**

Recognition and understanding of normal and abnormal electrocardiographic patterns are examined, with an emphasis on the underlying physiologic mechanisms and pathophysiology. Use of the resting electrocardiogram (ECG) to identify contraindications for exercise and use of the exercise ECG to identify clinically significant cardiovascular disease will be emphasized. A student successfully completing the course will be prepared to successfully complete the ECG portion of the American College of Sports Medicine Exercise Specialist or Registered Clinical Exercise Physiologist Certification Exams.

Prerequisites: MVSC-355, MVSC-362.

Credit: three hours.

**MVSC-465. POPULATION SPECIFIC EXERCISE INTERVENTIONS****3:3:0**

This course addresses the role of physical activity in at-risk populations for health promotion and disease prevention and treatment. At-risk populations are groups that traditionally report low levels of physical activity and/or have a high risk for chronic disease. Students will learn how to promote physical activity and how to prescribe physical activity for specific high risk populations

Prerequisites: MVSC-355, MVSC-362.

Credit: three hours.

**MVSC-466. HEALTH AND FITNESS SPECIALIST****3:3:0**

The course provides students with the skills, knowledge, and abilities necessary to be clinicians in a health/fitness and wellness setting. The course prepares students to successfully complete the American College of Sports Medicine (ACSM) Health/Fitness Specialist® (HFS) Certification, a certification considered the “gold standard” of all health-fitness instructor certifications and required by many employers, including those in the health-fitness, university, corporate, commercial, hospital, and community settings.

Prerequisites: MVSC-355, MVSC-362.

Credit: three hours.

**MVSC-470. MOVEMENT ANALYSIS****3:3:1**

The course introduces the student to the use of technology commonly used in movement analysis techniques. The processes of data collection, analysis, interpretation, and reporting using video, force, and EMG techniques will be introduced and explored. Quantitative analysis of human movement toward understanding the mechanisms of injury, reduction of injury production, and improved movement outcomes will include kinematic and kinetic aspects of total body and isolated joint movements and electromyographic activity of muscle.

Prerequisites: MVSC-360, MVSC-361.

Credit: three hours.

**MVSC- 475. CSCS EXAM WORKSHOP****1:1:0**

This is an intensive weekend workshop designed to address and fine-tune theory and practice, specifically related to the content of NSCA’s Certified Strength and Conditioning Specialist examination. Students will cover exam topics through a combination of classroom and practical experience. At the conclusion of this course, students will be taking a practice CSCS exam.

Prerequisites: MVSC-355, MVSC-362, MVSC-463

Credit: one credit

**MVSC-476. HEALTH/FITNESS SPECIALIST® CERTIFICATION WORKSHOP****1:1:0**

This intensive workshop provides students with the knowledge, skills, and abilities required to sit for and pass ACSM’s Health Fitness Specialist® Certification Exam. The course focuses on the ten competency areas of the exam, with an emphasis on exercise physiology and exercise prescription and programming. The Exercise Physiology Lab is used to prepare students for health appraisal techniques. Practice questions and a practice exam for the HFS® exam are provided.

Prerequisites: MVSC-355, MVSC-362, MVSC-466

Credit: one credit

**MVSC-480. MOVEMENT SCIENCE SENIOR SEMINAR****6:1:5**

A seminar course and capstone experience required of all Movement Science majors. Students may meet this requirement by completing one (1) of the following three (3) options: 1) an original research study, 2) a literature review, or 3) an internship with an associated service project and report. Topics are selected in consultation with Movement Science faculty. Regardless of the option chosen, students must present their work orally in an open meeting format and provide a final paper detailing the work to the Department.

Prerequisites: MVSC-362, MVSC-470. Current First Aid, AED, and CPR certifications are required.

Senior Movement Science majors

Credit: six hours.

**B.S. DEGREE IN HEALTH PROMOTION**  
**Effective Fall 2011**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Composition I*	3	ENGL-101	English Composition II*	3
-101	Foreign Language I	3	-102	Foreign Language II	3
HEPR-105	Introduction to Public and Community Health	3	HEPR-106	Introduction to Health Behavior	3
MVSC-191	University Seminar I	1	MVSC-192	University Seminar II	1
MVSC-101	Lifetime Fitness & Wellness	2	HEPR-108	Personal & Community Health	3
MTSC-101 or higher	Mathematics elective	3	____-____	Physical or Life Science (BIOL 101, 015, 107; CHEM 100, 107)	4
<b>Total Credits</b>		<b>15</b>	<b>Total Credits</b>		<b>17</b>
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MVSC-201 or BIOL-207	Anatomy & Physiology I w/Lab	4	MVSC-202 or BIOL-208	Anatomy & Physiology II w/Lab	4
____-____	Elective	3	HEPR-210	Health Promotion in the Workplace	3
HEPR-205	Foundations of Public Health Education & Policy	3	SCCJ-101	Introduction to Sociology	3
HEPR-220	Public Health Informatics & communication (or EDUC 344)	3	HEPR-234	Public/Community Health Serv.	3
HMEC-215	Introduction to Nutrition	3	ENGL-200	Speech	3
<b>Total Credits</b>		<b>16</b>	<b>Total Credits</b>		<b>16</b>
Junior Fall Semester			Junior Spring Semester		
MVSC-124	Exercise Leadership	3	HEPR-____	HEPR Elective (236, 332, 335, 339; or PSYC 208)	3
HEPR-331	Observation & Fieldwork**	3	HEPR-330	Chronic Disease Management	3
HEPR-333	Disease & Injury Prevention	3	HIST-203 or HIST-204	African-American History	3
HEPR-337	Program Planning/Evaluation in Health Education/Promotion***	3	MVSC-365	Research Design & Quantitative Software Applications*	3
HMEC-215	Literature	3	HEPR-340	Barriers to Healthy Lifestyles	3
<b>Total Credits</b>		<b>15</b>	<b>Total Credits</b>		<b>15</b>
Senior Fall Semester			Senior Spring Semester		
GLOB-395	Global Societies	3	HEPR-432	Health Practicum****	12
HEPR-431	Descriptive Epidemiology	3			
____-____	Elective	3			
HEPR-402	Health, Environment & the Built Community	3			
HEPR-410	Community Health Issues	3			
<b>Total Credits</b>		<b>15</b>	<b>Total Credits</b>		<b>12</b>

\* Writing Intensive Course(s)

\*\* Students must complete HEPR-234 with a grade of C or higher to take HEPR-331

\*\*\* Students must complete Intro to Health Behavior with a grade of C or higher to take HEPR-337

\*\*\*\* Senior Capstone: Students must complete ALL coursework prior to taking HEPR-432: Health Practicum and must be certified in First Aid & CPR/AED prior to registering for HEPR-432

The Major's Across-the-Curriculum Guide must be consulted for General Education requirements/options.

Students may take Anatomy and Physiology I & II in either the Movement Sciences or the Biology Department; however, both courses must be taken in the same department.

**Total Credits: 121**

## **HEALTH PROMOTION – (HEPR)**

### **HEPR-105. INTRODUCTION TO PUBLIC & COMMUNITY HEALTH**

**3:3:0**

This course is an introduction to the theory and practice of public and community health. The influence of public health professionals on the past, present and future health status of society through the examination of critical health issues will be described. Programming models, theories and policy development are included.

Credit: three hours.

### **HEPR-106. INTRODUCTION TO HEALTH BEHAVIOR**

**3:3:0**

This course examines the psychological, social-psychological, and sociological approaches to the development of health attitudes and behavior. The use of behavior change theories as a basis for the development of behavior change intervention programs.

Credit: three hours.

### **HEPR-108. PERSONAL AND COMMUNITY HEALTH**

**3:3:0**

This course provides opportunity for study in personal and community health problems as well as steps that can be taken by individuals and groups to reduce risk of health problems for individuals, families, and communities. It also provides an introduction to the nature of community health services and resources. Credit: three hours.

### **MVSC-191. UNIVERSITY SEMINAR I**

**1:2:0**

University Seminar is a two-semester General Education course sequence that develops academic skills including critical reading, thinking, writing, speaking, and computer and information literacy. The goals and objectives of the General Education Program are introduced in these courses and subsequently embedded across the curriculum in each of the majors and selected concentrations. Class activities provide each student with the opportunity to cultivate the skills and knowledge necessary to become a life-long learner. A global, multi-cultural perspective is used to discuss moral and ethical issues, values, peer pressure, wellness, nutrition, and health issues. Other goals of this course are: knowledge of the University's history, development of the sense of University community, and a shared common educational experience with other freshmen.

Credit: one hour.

### **MVSC-192. UNIVERSITY SEMINAR II**

**1:1:0**

University Seminar is a two-semester General Education course sequence that develops academic skills including critical reading, thinking, writing, speaking, and computer and information literacy. The goals and objectives of the General Education Program are introduced in these courses and subsequently embedded across the curriculum in each of the majors and selected concentrations. Class activities provide each student with the opportunity to cultivate the skills and knowledge necessary to become a life-long learner. A global, multi-cultural perspective is used to discuss moral and ethical issues, values, peer pressure, wellness, nutrition, and health issues. The second semester course focuses on career and graduate school information, resume development, and development of communication skills. Other goals of this course are: knowledge of the University's history, development of the sense of University community, and a shared common educational experience with other freshmen.

Credit: one hour.

### **HEPR-205. FOUNDATIONS OF PUBLIC HEALTH EDUCATION & POLICY**

**3:3:0**

This course examines foundations and content of two professions, health education and public health, including history, mission, terminology, philosophy, ethical principles and scientific foundations. Emerging and reemerging threats to the public's health will be discussed, as well as societal influences on health and health policy. Also addresses professional competencies and preparation, and the role of professional organizations.

Prerequisites: HEPR-105

Credit: three hours.

**HEPR-210. HEALTH PROMOTION IN THE WORKPLACE****3:3:0**

The purpose of the course is to provide the student with an understanding of how to promote a healthy and safe workplace. The course examines occupational stress, occupational safety and health, women's health, AIDS, violence, drugs, etc. The course includes lectures, discussions, speakers, and films.

Prerequisites: HEPR-105, HEPR-205

Credit: three hours.

**HEPR-234. PUBLIC AND COMMUNITY HEALTH SERVICES****3:3:0**

In-depth study of community health organizations, including public health agencies. The course will examine the organization, governance, problems, services, and programs of local, state, national, and international organizations and agencies.

Prerequisites: HEPR-108.

Credit: three hours.

**HEPR-236. SUBSTANCE USE AND ABUSE****3:3:0**

The study of the physical, mental, social, and illegal implications of alcohol, tobacco, and illegal drugs, and the nature and proper use of prescription drugs and nonprescription medications.

Credit: three hours.

Online Course

**HEPR-220. PUBLIC HEALTH INFORMATICS & COMMUNICATION****3:3:0**

The course provides an overview of the development, design, and delivery process for public health communications and informatics. Students will gain both conceptual and theoretical knowledge as well as practical experience in a variety of communications, including instructional, clinical, technological, and communication-oriented. The course emphasizes various types of intervention and recipient factors that contribute to the success or failure.

Prerequisites: HEPR-105, HEPR-205

Credit: three hours.

**HEPR-331. OBSERVATION AND FIELDWORK****3:0:3**

Observation and fieldwork at selected health agency (Community Health major only).

Prerequisites: HEPR-108, HEPR-234 (may be taken concurrently).

Credit, three hours.

**HEPR-332. CONSUMER HEALTH****3:3:0**

An in-depth study of the factors involved in the selection and evaluation of health services and products. Emphasis includes medical quackery, efficiently using health services, consumer protection, alternative and complementary therapies, food selection, and influences of advertising on consumer choices.

Credit, three hours.

Online course.

**HEPR-333. DISEASE AND INJURY PREVENTION****3:3:0**

The course provides study of occurrence and prevention of injuries. The course also provides study in chronic and infectious diseases, including causation and prevention.

Prerequisites: HEPR-108.

Credit, three hours.

**HEPR-335. MENTAL HEALTH AND STRESS MANAGEMENT IN HEALTH PROMOTION****3:3:0**

The course focuses on issues relating to mental and emotional health, including stress and stress management. Services in the community are explored.

Credit, three hours.

Online Course.

**HEPR-337. PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION AND PROMOTION****3:3:0**

This course provides the student with a sequential model for community health program planning. Major elements of the course include the following: study of philosophies; performance of a need assessment; development of goals and objectives; construction of a health education/promotion program; and design of implementation and evaluation measures.

Prerequisites: HEPR-105, HEPR-106, HEPR-205

Credit: three hours.

**HEPR-340. BARRIERS TO HEALTHY LIFESTYLES****3:3:0**

This course provides students with an understanding of common barriers to healthy lifestyles through nutrition, physical activity, etc. The barriers are described using an ecological framework (intrapersonal, interpersonal, community/institution, and macro/public policy) to emphasize the need for multidimensional approaches that Public/Allied Health Professionals can use to help individuals overcome barriers.

Prerequisites: HEPR-105, HEPR-205

Credit: three hours.

**HEPR-330. CHRONIC DISEASE MANAGEMENT****3:3:0**

Epidemiology, prevention and control of chronic disease (e.g. obesity, cardiovascular disease, osteoporosis, hypertension, diabetes, etc.) related to health and wellness. Students will examine risk factors, as well as preventive measures, as they relate to public health, individual management, and clinical interventions.

Prerequisites: HEPR-105, HEPR-205, Anatomy & Physiology II (MVSC 202 or BIOL 208)

Credit: three hours.

**HEPR-339. HUMAN SEXUALITY****3:3:0**

The study of basic aspects of human sexuality, including human sexual response, development of sex roles and sexual lifestyles, reproduction and control of reproduction, AIDS and other STD's, and societal legal implications of sexuality.

Credit: three hours.

Online Course

**HEPR-410. COMMUNITY HEALTH ISSUES****3:3:0**

This course examines the most current issues in community health. Etiology and treatment options for common chronic and communicable diseases are discussed. Primary, secondary, and tertiary measures to prevent and treat conditions most prevalent at the community level are addressed.

Prerequisites: HEPR-105, HEPR-205

Credit: three hours.

**HEPR-402. HEALTH, ENVIRONMENT AND THE BUILT COMMUNITY****3:3:0**

This course focuses on threats to the environment, effects on human health, regulation and enforcement, risk assessment, community action, and professional responsibilities. Students will examine the implications of the built environment, including land use, public transit, and housing, for physical activity, diet, obesity, and other aspects of health.

Prerequisites: HEPR-105 (intro to pub/com health), HEPR-205 (foundations)

Credit: three hours.

**HEPR-431. DESCRIPTIVE EPIDEMIOLOGY****3:3:0**

The study of disease and injury, including characteristics of person, place, and time. Topics covered include the natural history of disease, models of diseases, individual diseases, measures of morbidity and mortality, and sources of data and indices of community health.

Credit: three hours.

**HEPR-432. HEALTH PRACTICUM****12:0:34**

Off-campus senior capstone field experience for community health majors. Students will be placed in community health agencies or public health facilities for field instruction. Students are supervised and evaluated by the University staff and the cooperating agency staff. A minimum of 400 clock hours is required. A journal is required. Prerequisites: Senior Community Health majors with all other coursework completed

Credit, twelve hours.

# **COLLEGE OF ARTS, HUMANITIES AND SOCIAL SCIENCES**

**Dean:** Dr. Marshall Stevenson

## **VISION**

The vision of the College of Arts, Humanities and Social Sciences (CAHSS) is to develop, support and enhance the core values of Delaware State University which include outreach, community, scholarship, diversity and integrity.

## **MISSION**

The mission of the College of Arts, Humanities, and Social Sciences (CAHSS) is to produce students in the finest tradition of the liberal arts who can think with intellectual vigor, communicate effectively, and possess a diverse and global perspective on peoples and cultures throughout the world.



## **THE INTEGRATED STUDIES DEGREE**

Integrative learning takes place when students seek to understand their milieu by making connections between and among ideas and experiences leading to even greater understanding and knowledge of the human condition. In the process, students come to appreciate that they are able to engage in critical analysis as opposed to making decisions based on conjecture and personal assumptions.

The bachelor of arts/bachelor of science degree in Integrated Studies will be an interdisciplinary program of study which will allow students to develop individualized programs of study through a broad-based education in the liberal arts and sciences. The flexible nature of the program will allow the student to integrate courses from across the university to achieve personalized educational goals. Students will work closely with the Integrated Studies major advisor to design the elective portion of their program. The flexibility of the program allows for the maximum use of prior credits that can be transferred towards this degree. Students will select a concentration in two focus areas.

This degree fits into D.S.U.'s mission of providing relevant and meaningful education based on the liberal arts and the professions. It will afford students the opportunity to bring together different types of knowing across disciplines, over time, and perhaps more importantly, bridge the gap between the classroom, the community, and the person.

### **Framing Language:**

Fostering student's abilities to integrate learning—across courses, over time and between campus and community life—is one of the most important goals and challenges for higher education. Initially, students connect previous learning to new classroom learning. Later significant knowledge within individual disciplines serves as the foundation, but integrative learning goes beyond academic boundaries. Indeed, integrative experiences often occur as learners address real-world problems, unscripted and sufficiently broad, to require multiple areas of knowledge and multiple modes of inquiry, offering multiple solutions and benefiting from multiple perspectives. Integrative learning also involves internal changes in the learner. These internal changes, which indicate growth as a confident, lifelong learner, include the ability to adapt one's intellectual skills to contribute to a wide variety of situations, and to understand and develop individual purpose, values and ethics. Developing students' capacities for integrative learning is central to personal success, social responsibility, and civic engagement in today's global society. Students face a rapidly changing and increasingly connected world where integrative learning becomes not just a benefit, but also a necessity.

Because integrative learning is about making connections, it may not be as evident as in traditional academic artifacts such as research papers and academic projects unless the student, for example, is prompted to draw implications for practice. These connections often surface, however, in reflective work, self assessment, or creative endeavors of all kinds. Integrative assignments foster learning between courses or by connecting courses to experientially-based work. Work samples or collections of work that include such artifacts give evidence of

integrative learning. Faculty are encouraged to look for evidence that the student connects the learning gained in classroom study to learning gained in real life situations that are related to other learning experiences, extra-curricular activities or work. Through integrative learning students pull together their entire experience inside and outside of the formal classroom, thus, artificial barriers between formal study and informal or tacit learning become permeable. Integrative learning whatever the context or source, builds upon connecting both theory and practice toward deepened understanding.

**The requirements for the degree are the following: students must**

1. Complete a minimum of 40 Upper Division credits (courses 300 level and above);
2. Choose two focus areas;
3. Complete the last 30 credits at DSU;
4. Have a 2.00 Cumulative GPA to graduate; and
5. Complete the Interdisciplinary Capstone Course

Students can transfer up to 90 credits hours from any accredited institution, and will have up to 5 (five) years to finish the degree. For further information, please see **Dr. Akwasi Osei, ETV 110; EH 267; x6622, 6625**

## Bachelor of Integrated Studies at Delaware State University

General Education Requirements: Student must fulfill the general education requirements (37 hours)	
Core - Required of all students	
	credits
University Seminar I and II	2
English Comp I & II; Speech	9
Global Societies	3
Life-time Fitness and Wellness	2
Total Core	16
Breadth	
History	3
Literature	3
Social Science	3
Arts/Humanities(including world languages - not literature and not history)	6
Mathematics	3
Natural Science in CMNST with Laboratory	3
Total Breadth	21
TOTAL GEN ED CREDITS	37
Focus Area Requirements	Maximum
First Focus Area (C or better in each course)	21
Second Focus Area (C or better in each course)	21
Open Electives	41
Total Core Credits (Includes Capstone)	83
Other Program Requirements	
Must complete Upper Division Courses	(40)
Transfer Credits (lower-division/upper division*)	(90)
Must complete last 30 credits at DSU	
Need a 2.00 Cumulative GPA to graduate	
One course must be from the African American Experience list and two courses from the Multicultural list*	
* Upper Division Course are 300 and above	
Subtotal Gen Ed Credits	37
+Subtotal Core Credits	83
=Total Credits To Complete Program	120
*The General Education Director and the Integrated Studies Director will consult to determine how transferred general education courses not offered by DSU can be utilized.	

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
101	English Comp I	3	102	English Comp II	3
xx-xxx	Natural Science w/lab	4	xx-xxx	FA1	3
25-xxx	Mathematics	3	xxx	FA1	3
	History	3		FA2	3
xx-191	University Seminar I	1	xx-192	University Seminar II	1
16-100	Fitness and Wellness	2		FA2	3
	Total Credits	16		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
201	World Literature I OR		200	Speech	3
205	Afro. American Lit. I	3		Arts /Humanities (incl. lang.)	3
	Social Science	3		FA1	3
	FA1	3		FA2	3
	FA1	3		FA2	3
	FA2	3		FA1	3
	FA2	3			
	Total Credits	18		Total Credits	18
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
	FA1	3		Open Elective	3
	FA2	3		Open Elective	3
	Open Elective	3	395	Global Societies	3
	Open Elective	3		Open Elective	3
	Open Elective	3		Open Elective	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
xx-xxx	Open Elective	3		Open Elective	3
	Open Elective	3		Open Elective	3
	Open Elective	3		Open Elective	3
475	Senior Capstone**	3		Open Elective	3
	Total Credits	12		Total Credits	12

*Need a 2.00 Cumulative GPA to graduate;*

*Must complete last 30 credits at DSU;*

*Must complete 40 hours of Upper Division Courses (300 level or above);*

*Up to 90 hours of transferable credits (lower-division/upper division\*(One course from the African American list, and two courses from the Multicultural list);*

*\*\*Senior Capstone will be the Integrated Capstone Course.*

## **AFRICANA STUDIES**

**Program Director:** Dr. Ahati N. N. Toure, Associate Professor, Department of History, Political Science, and Philosophy

### **Africana Studies Advisory Committee:**

Dr. Joe Amoako, Associate Professor, Department of Literature and Languages

Dr. Daudi Azibo, Associate Professor, Department of Psychology

Dr. F. Odun Balogun, Professor, Department of Literature and Languages

Mrs. Ernestine C. Brittingham-Brown, Assistant Professor, Department of Social Work

Dr. Dolores Finger Wright, Associate Professor, Department of Social Work

Dr. Jahi Issa, Assistant Professor, Department of History, Political Science, and Philosophy

Dr. Akwasi Osei, Professor, Department of History, Political Science, and Philosophy

### **What is the Africana Studies Program?**

The Africana Studies Program at Delaware State University emerged sometime in the early 1980s and is designed to provide the student with a comprehensive introduction to an academic discipline created by principally US African university students and professors in the late 1960s and the early 1970s. This new academic discipline emerged in the wake of a sudden and massive desegregation of predominately white universities and colleges all across the United States. It also emerged from the insistence by these students that their studies locate people of African descent at the center of all academic study, whether in the arts and humanities or the sciences and social sciences. The program utilizes the methodology and analytical instruments developed by scholars in the discipline to shed light on the multidimensional nature of African experience and agency in the United States, Africa, the Americas, and the world from the beginning of humankind to the 21<sup>st</sup> century.

In addition to the discipline, the program supplements its instruction by drawing upon various other disciplines, especially those in the humanities and the social sciences. Among its numerous intellectual contributions, Africana Studies pioneered in developing interdisciplinary and multidisciplinary approaches to teaching and study in the university community. In addition to exploring new areas of contact and intersection among these disciplines, the minor will help prepare students gain an appreciation of Africans' place within an increasingly awareness of the multi-ethnic and global character of human society in the 21<sup>st</sup> century. It also presents students with the opportunity to build upon skills needed for graduate study and for professional careers in community service, education, government, law, and private industry.

### **When did the Africana Studies Program begin at DSU?**

Delaware State University's Africana Studies Program originated after students expressed the need for a more relevant curriculum relating to African experience and agency across disciplines. Like students elsewhere, they demanded more classes in US African history, which many hoped would satisfy their cravings for knowledge about Africa and African people in the global African community. Over time, students became more precise, demanding courses dealing with US African literature, African language, performing and visual arts, African women's history, continental African history, and other courses related to the African world.

### **What does the Africana Studies Program consist of at DSU?**

The Africana Studies Program seeks to promote a general awareness and understanding of African experience and agency through an exploration of their historical and present-day expressions in various societies. The Program brings together scholars who are trained in the discipline or who are trained in various other disciplines, but who demonstrate in their teaching and scholarship a profound commitment to explore the relationship of African people to the experience and agency of humankind.

The Africana Studies curriculum is composed of its own core courses as well as a variety of elective courses in the humanities and social sciences.

### **MISSION AND PROGRAM REQUIREMENTS**

The minor in Africana Studies is intended to supplement the student's academic major with a general scholarly understanding of global African experience and agency within the framework of a liberal arts education at a Historically Black University.

#### **Opportunities for Minors**

One of the most commonly asked questions concerning the practical usefulness of becoming a student of Africana Studies is: What can I do with a major/minor in Africana Studies? The answer is: the same thing you can do with any liberal arts or science major or minor—and much more! Africana Studies is an academic discipline that provides rigorous academic preparation that emphasizes writing, discussion, critical thinking and analysis, the ability to discern and trace the connections between ideas and social phenomena, and the ability to identify the relationship of particular concepts and social realities to larger systems of knowledge and human relations. Students in Africana Studies courses explore history, philosophy, literature, religion, culture, politics, economics, language, law, and social dynamics with a special emphasis on African people in the United States and their interaction with African and other peoples in the global human experience. A concentration in Africana Studies, therefore, provides the foundation for critical thinking and broad education which guide successful personal and professional ambitions. Furthermore, in a world that is increasingly more conscious of the value of multiculturalism, the Africana Studies perspective also makes the student a more attractive candidate to prospective employers.

### **REQUIREMENTS FOR THE MINOR IN AFRICANA STUDIES**

Students applying for the minor in Africana Studies must have completed at least one (1) semester of full-time study at the University with a grade-point average of at least 2.1. The minor requires eighteen (18) credits.

The minor in Africana Studies requires nine (9) credit hours of Africana Studies courses: AFST-201, AFST-202, and AFST-400. The remaining nine (9) credit hours may be selected from any three (3) courses drawn from the humanities and the social sciences that have as their core the study of any part of or any people of the global African world.

The Director of Africana Studies, with the assistance of the Africana Studies Advisory Committee, will make any decisions in furtherance of these requirements.

## **AFRICANA STUDIES (AFST) (57)**

### **AFST-201. INTRODUCTION TO AFRICANA STUDIES**

**3-4:3-4:0**

The course offers a comprehensive, interdisciplinary exploration of key aspects of the African experience from antiquity to present, in Africa and throughout the African Diaspora. The course attempts to provide students with a fundamental intellectual understanding of the universal African experience as it has been described and interpreted by humanists and social scientists. Declared minors will be given priority for the course. Enrollment Limit: 35.

Credit, three to four hours.

### **AFST-202. LANGUAGE AND CULTURE IN THE AFRICAN WORLD**

**3-4:3-4:0**

The course examines the interplay of verbal and nonverbal communication, written language, and cultural traditions of the African peoples in various parts of the world. From a scholarly perspective and within the frame of popular culture, the course looks at both contemporary and historical information to shed light on how language influences the global African societies and cultures. Enrollment Limit: 35.

Credit, three to four hours.

### **AFST-400. SEMINAR IN AFRICANA STUDIES**

**3-4:3-4:0**

Intended primarily for juniors and seniors, the Capstone Seminar in Africana Studies offers reading, writing, and small-group discussion in a particular aspect of Africana Studies. Collegial, collaborative, and reflective, the seminar format will prepare some students for graduate study in the discipline. Others will use the experience to culminate and organize prior coursework and research in Africana Studies. Seminar topics will vary from year to year, but will generally reflect the current research interests of the Instructor. Enrollment Limit: 35.

Credit, three to four hours.

## **LAW STUDIES PROGRAM**

**Director:** Dr. Samuel B. Hoff

**Office:** Conrad Hall 215 or ETV 213

**Contact:** 857-7617 or 857-6633, [shoff@desu.edu](mailto:shoff@desu.edu)

The purpose of the Law Studies Program is to prepare students for a career in the legal profession, whether it is as an attorney, paralegal, judge, or other position related to the field of law. To this end, the Law Studies Program offers the following services for students:

1. Information on law schools, including catalogs and applications.
2. A library of law texts, a computer lab, and a classroom for use by students in the program.
3. A Law School Admission Test (LSAT) Preparation Course, which is available in the political science curriculum in the Department of History, Political Science, and Philosophy.
4. LSAT registration books and fee waiver applications.
5. Funding to attend the annual Law School Forum in New York, where selected students can visit with law school personnel and attend information sessions on financial aid and the admissions process.
6. Letters of recommendation to those applying for admission to law school.
7. Assistance with internship placements dealing with the legal profession.
8. Sponsoring events such as Law Day forums, speakers, and debates on legal controversies.
9. Advising on the best courses to take to prepare for law school and careers in the law field.

The Law Studies Program offers a twenty-one (21) credit minor in Law Studies, which includes courses drawn from six (6) disciplines across five (5) academic departments. Students must earn a “C” or better in all required courses. The curriculum for the minor is as follows:

### **REQUIRED COURSES (18 Credits)**

PLSC-307: Constitutional Law/ Political Science

PLSC-308: Civil Liberties/ Political Science

ACCT-302: Legal Environment/ Accounting

SCCJ-315: Criminal Law/ Sociology

PHIL-206: Logic/ Philosophy

ENGL-311: Advanced Composition/ English

### **ELECTIVE COURSE (3 Credits)**

ACCT-402: Business Law/ Accounting

PHIL-101: Critical Thinking/ Philosophy

SPSC-471: Legal and Ethical Issues in Sport/ Sport Sciences

Students interested in enrolling in the Law Studies Minor or in taking advantage of any of the aforementioned services should contact the Law Studies Director.



## **GLOBAL SOCIETIES PROGRAM**

The rationale for Global Societies calls for a broadly educated student who understands that the world is indeed the stage on which all humans interact politically, socially, and culturally. The world is connected as never before: nations are more dependent on each other for resources; the role of the United Nations and the development of non-governmental organizations have involved people more directly across boundaries; goods and products are increasingly being made with parts from several countries; and advances in technology have led to new dispensations. The continuing development of internet technology, including improvement in web technology, has created a true global town hall atmosphere. We indeed have a global village. A major part of the course is to investigate the different relationships that define this village.

The Global Societies course is a core course in the General Education Program. As such, all students must take it in order to graduate. We take an interdisciplinary approach to the various themes identified in the course.

Any student who has taken an identical course or courses at another institution may request a waiver from the Director of Global Societies. The student must submit documentation with the request.

### **GLOBAL STUDIES (GLST) (31)**

#### **GLST-395. GLOBAL SOCIETIES – NON-ED MAJORS**

**3:3:0**

The course is designed to develop persons with educated and informed perspectives on the world for the 21st century. These are individuals who know their world, and who can understand facets of globalism which transcend time, space, and place. Factors to be considered include global geography; global themes of the past; the global marketplace; and global political, social, and cultural developments. This will enable students to appreciate the past, comprehend the present, and be effective and knowledgeable global citizens for the future. A grade of “C” or better is required. Students must have a minimum of sixty (60) credit hours to register for Global Societies. Credit, three hours.

#### **GLST-395B. GLOBAL SOCIETIES/SEN MAU**

**3:3:0**

Credit, three hours.

## DEPARTMENT OF ART

**Chair:** Becker

**Associate Professors:** Beaumont, Becker, Crawford, Tucci

**Professor Emeritus:** Parks

The Department of Art seeks to provide high-quality education for Art majors, as well as to provide courses for the prospective elementary and secondary teachers, while providing courses that satisfy General Education Requirements for the entire University population.

### ART

#### **Bachelor of Arts Degree Tracks in Art**

The Department offers career tracks in Art Education, Studio Art, and Arts Management. In addition, the Department offers a Master of Science degree in Art Education. *New guidelines, policies, and standards of accreditation and/or certification bodies may necessitate curricular changes. See the Department for the most current curriculum sheet.*

### ART CURRICULUM OPTIONS

#### **Art Education (050)**

A rich and varied Art Education program has as its main objective the training and certification of qualified and competent artist educators. The curriculum leads to a Bachelor of Arts Degree in Art Education. Art Education graduates are qualified by the State of Delaware to teach art in grades one (1) through twelve (12) in the public schools and in states with reciprocity. All Students must pass PRAXIS I by the end of their sophomore year. Students must pass PRAXIS II before they can student teach. Students are given comprehensive training in the studio arts, theories of teaching art to children, aesthetics, and art history. The graduate, as well as being prepared to enter the work market in education, is also prepared to enter graduate school to pursue an M.S. in Art Education, M.A., or other art-related advanced degree. All Art Education students must complete a capstone experience before they graduate.

#### **Art Education Major (050)**

All students who select a major in Art Education must complete the General Education Program as required of all students (see General Education Requirements). Students must pass the PRAXIS I examination and be admitted to the Teacher Education Program by the end of their sophomore year. Students must pass PRAXIS II before they can student teach. The following courses are required: Psychology 201 and 316, Education 204, three (3) hours of American History or History, six (6) hours of Natural Science electives, three (3) hours of Social Science electives, and Art 101, 103, 104, 108, 201, 206, 207 or 208, 301, 302, 304, 307, 308, Art History I 317, Art History II 318, 315, 316, 325, 333, 340, 341, 342, 408, and 410. All Art Education majors must complete a capstone experience, all requirements will be provided.

#### **Art Education Minor**

The following five (5) areas must be completed for a total of twenty-one (21) hours minimum: 1) six (6) hours to be selected from Art 101, 315 and 316, and Art History I 317 and Art History II 318, 2) three (3) hours to be selected from Art 201, 341 and 342, 3) six (6) hours to be selected from 205, 206, 301, 302, 304, 307, 308, 325, 333, 340, 341, and 408, 4) six (6) hours to be selected from Art 103 and 104. Students are required to take 05-410, Psychology 204, and Education 318 and 400. PRAXIS I and II are required for certification in the state of Delaware.

### **Studio Art (053) & Art Management (052) Concentration**

The Studio Art curriculum offers a broad basic program in the arts, preparing students to pursue many career opportunities in business, industry, advertising, public relations, and self-employment. Students may also elect to pursue graduate work in the fine arts, art history, crafts, or other art-related disciplines. All art students must complete a portfolio review each semester and complete a capstone experience in their senior year.

### **Studio Art (053) Concentration**

All students who select a concentration in Studio Art must complete the General Education Program as required of all students (see General Education Requirements). In addition, the following courses are required: three (3) hours of selected business electives, and the following art courses: 101, 103, 104, 108, 206, 207 or 208, 301, 302, 304, 307, 308, 315 or 316, Art History I 317 and Art History II 318, 325, 333, and 408, and nine (9) hours of Art 450 (Senior Experience and Exhibition), and six (6) hours of 460-464, selected topics in Art are required.

### **Studio Art Minor**

The following four (4) areas must be completed for a total of twenty-one (21) hours minimum: 1) six (6) hours to be selected from Art History I 317, Art History II 318, African American Art 316, and Modern Art 315, 2) six (6) hours required to be selected from Art 103 and 104, 3) six (6) hours to be selected from Art 108, 207 or 208, 304, 308, 333, 325 and 408, and 4) three (3) hours to be selected from Art 205, 206, 300, 301, 302 and 303.

### **Art Management Concentration (052)**

Arts Management is an interdisciplinary program incorporating the visual arts, arts management, and business administration. The curriculum provides academic preparation for students aspiring to art-related positions in the business world and the arts community. The arts management concentration provides academics preparation for students aspiring to art-related positions in the business world and the arts community. The course offers survival skills and work experiences in a competitive market and establishes business, management, and economic literacy.

Students who select a concentration in Arts Management must complete the General Education Program as required of all students (see General Education Requirements). In addition, the following courses are required: eighteen (18) hours of Art 229 (Art Management Seminar), 329 (University Gallery Internship), and 429 (Community Arts Internship), Macroeconomics 201, Marketing 300, six (6) hours of Natural Science electives; three (3) hours of Social Science/History electives, and six (6) hours of 460-464 (Selected Topics) in Art. Required Art courses are 101, 103, 104, 108, 129, 205, 206, 207 or 208, 229, 301, 302, 304, 307, 308, 315 or 316, Art History I 317, Art History II 318, 325, 329, 333, 408, and 429, and 44-100 level or higher Business elective. The community internship is part of the capstone experience.

All Art students are expected to furnish their own supplies and tools, with the exception of items generally unavailable to the student and major equipment which is provided in the facilities. Fees are listed for appropriate courses, which will cover the use of equipment and technology.

The final grade for each course is based on the stated requirements and grade weights as listed in each course syllabus to be received by the student the first week of class. At the end of each semester, all art students must go through a portfolio review.

The faculty members of the Department of Visual & Performing Arts believe that there is a strong link between class attendance and the grades the student is able to attain for the course. Each faculty member, therefore, has a clearly stated attendance/participation policy written into each syllabus. Excessive unexcused absences will have an impact upon the grades received by a percentage grade reduction, the amount noted by each faculty member for each individual course. Excessive tardiness is also unacceptable and can also affect the grade received for the course. Any student with a disabling condition, who may require special arrangements in order to meet the course requirements, should contact the Instructor immediately upon entering the course in order that the necessary accommodations can be made.

(all three curricula below have been updated as of fall, 2010)

## B. A. DEGREE IN ART EDUCATION

### Effective Fall 2010

Freshman Fall Semester					Freshman Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART-103	Intro to Drawing (fo)		3		ART-108	Surv of MacIntosh (B)		3	
ART-191	Univ. Seminar I (fo) #		1		ART-104	2 D-Design (so)		3	
ENGL-101	*English Comp I		3		ART192	Univ. Sem II (so) #		1	
MTSC-101	Survey of Math I		3		ENGL-102	English Comp II		3	
EDUC-204	*Phil Foundation of Edu		3		MTSC-102	Survey of Math II		3	
ART-201	*Art Educ Theory (fo) #		3		PSYC-201	Intro to Psychology		3	
						*Student must pass Praxis I		P/F	
	Total Credits		16			Total Credits		16	
Sophomore Fall Semester					Sophomore Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART-205	Intermediate Drawing (fo)		3		ART-304	Intro to Painting (I) (so)		3	
ART-206	3-D Design (fo)		3		ART-301	Sculpture I (so)		3	
ENGL200	Speech		3		MVSC-100	Lifetime Fitness		2	
xx-xxx	Natural Sci Elective		3		EDUC-318	Multicult. Educ/global societies		3	
xx-xxx	Foreign Language I		3		xx-xxx	Foreign Language II		3	
ENGL-201 or 205	World Lit I or Afro-Amer. Lit I		3		PSYC-316	Dev Psychology I		3	
	^ Student must pass Praxis I		P/F			^ Student must pass Praxis I		P/F	
	Total Credits		18			Total Credits		17	
Junior Fall Semester					Junior Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART-308	Life Drawing (fo)		3		ART-307	Watercolor Painting (II) (so)		3	
ART-302	Ceramics (fo)		3		ART-318	Art History II (so) *		3	
ART-317	Art History I (fo) *		3		ART-325	Photography (so)		3	
ART-341	Meth & Matls Elem Art Tchrs (fo) # (see below)*		3		ART-333	Printmaking (so)		3	
HIST-34-2xx	History		3		ART-342	Meth & Matls Secondary Art Tchrs (so) **(see below)#		3	
	Total Credits		15			Total Credits		15	
Senior Fall Semester					Senior Spring Semester				

Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART-340	Art for Spec Educ (fo) *		3		ART-410	Seminar Art Ed ** (B)		1	
ART-408	Adv Painting (III) (fo)		3		EDUC-400	Student Teach in Art (B) * ** (see below)		12	
EDUC-302	Reading Content Area (B)		3						
EDUC-357	Effective Teaching (B)		4						
EDUC-416	Analysis of Student Tch		1						
	# Student must apply and be accepted into TEP prior to taking 7 <sup>th</sup> sem. Ed. Classes.		P/F			# Student must apply and be accepted into TEP prior to taking 7 <sup>th</sup> sem. Ed. Classes.			
	^ Student must pass Praxis II prior to student teaching		P/F			^ Student must pass Praxis II prior to student teaching			
	<b>Total Credits</b>		<b>14</b>			<b>Total Credits</b>		<b>13</b>	

Credits <124>

Senior Capstone (05-410 & 12-400) \*\*  
Writing Intensive \*

SO – Spring Only  
FO – Fall Only  
B - Both Semester  
V - Variable

**B.A. DEGREE IN STUDIO ART**  
**Effective Fall 2010**

Freshman Fall Semester					Freshman Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART-103	Intro to Drawing (f)		3		ART-108	Survey of MacIntosh (v)		3	
ART-191	Univ. Seminar I (f)		1		ART-104	2 D-Design (so)		3	
ENGL-101	English Comp I		3		ART-192	Univ. Sem II (so)		1	
MTSC-101	Survey of Math I		3		ENGL-102	English Comp II		3	
MVSC-100	Lifetime Fitness		2		MTSC-102	Survey of Math II		3	
xx-xxx	Art/Human. Elective		3		xx-xxx	Business Elective		3	
	<b>Total Credits</b>		<b>15</b>			<b>Total Credits</b>		<b>16</b>	
Sophomore Fall Semester					Sophomore Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART-205	Intermediate Drawing (f)		3		ART-304	Intro to Painting (I) (s)		3	
ART-206	3-D Design (f)		3		ART-301	Sculpture I (s)		3	
ART-207 or 208	Computer Graphics (v)		3		xx-xxx	Elective		3	
xx-xxx	Natural Sci Elective		3		ENGL-200	Speech		3	
xx-xxx	Foreign Language I		3		HIST-2xx	American History		3	
ENGL-201 or 205	World Lit I or Afro-Amer Lit I		3			201,202,203 or 204			
Junior Fall Semester					Junior Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART-308	Life Drawing (f)		3		ART-307	Watercolor Painting (II) (s)		3	
ART-302	Ceramics (f)		3		ART-318	Art History II (s)		3	
ART-317	Art History I (f)		3		ART-325	Photography (s)		3	
HIST-395	Global Societies		3		ART-333	Printmaking (s)		3	
xx-xxx	Social Science		3		xx-xxx	Elective		3	
	<b>Total Credits</b>		<b>15</b>			<b>Total Credits</b>		<b>15</b>	
Senior Fall Semester					Senior Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART-315 or 316	African Am. Art or Modern Art History (v)		3		ART-450	Senior Exp Art (Capstone Exper.) (v)		9	
ART-408	Adv Painting (III) (f)		3		ART-xxx	Elective or Adv Comp Graphics (v)		3	
ART-xxx	Selected Topics in Art		3						

xx-xxx	Elective		3						
xx-xxx	Elective		3						
	<b>Total Credits</b>		<b>15</b>			<b>Total Credits</b>	<b>12</b>		



**B.A. DEGREE IN ARTS MANAGEMENT**  
**Effective Fall 2010**

Freshman Fall Semester					Freshman Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART-103	Intro to Drawing		3		ART-108	Surv of MacIntosh		3	
ART-191	Univ. Seminar I		1		ART-104	2 D-Design		3	
ENGL-101	English Comp I		3		ART-192	Univ. Sem II		1	
MTSC-101	Survey of Math I		3		ENGL-102	English Comp II		3	
MVSC-100	Lifetime Fitness		2		MTSC-102	Survey of Math II		3	
xx-xxx	Humanities Elective:		3						
	<b>Total Credits</b>		15			<b>Total Credits</b>		13	
Sophomore Fall Semester					Sophomore Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART-205	Intermediate Drawing		3		ART-304	Intro to Painting (I)		3	
ART-206	3-D Design		3		ART-301	Sculpture I		3	
xx-xxx	Foreign Language I		3		HIST-2xx	History		3	
xx-xxx	Natural Sci Elective		3		xx-xxx	Elective		3	
ENGL-201 or 205	World Lit I or Afro-Amer Lit I		3		ENGL-200	Speech		3	
	<b>Total Credits</b>		15			<b>Total Credits</b>		15	
Junior Fall Semester					Junior Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART308	Life Drawing		3		ART-307	Watercolor Painting (II)		3	
ART302	Ceramics		3		ART-318	Art History II		3	
ART317	Art History I		3		ART-325	Photography		3	
ART207 or 208	Computer Graphics		3		ART-333	Printmaking		3	
ECON-201	Macro Economics		3		ART-229	Arts Mgmt Seminar		3	
xx-xxx	Elective		3		HIST-395	Global Societies		3	
	<b>Total Credits</b>		18			<b>Total Credits</b>		18	
Senior Fall Semester					Senior Spring Semester				
Course	Course Name	Sem	Cr	Gr	Course	Course Name	Sem	Cr	Gr
ART-315 or 316	African Amer Art or Modern Art History		3		ART-429	Comm Arts Intern (**Senior Capstone)		12	
ART-408	Adv Painting (III)		3						
ART-329	Univ Gallery Internship		3						
MKT-300	Princ. of Marketing		3						
xx-xxx	<b>Elective</b>		3						
	<b>Total Credits</b>		15			<b>Total Credits</b>		12	

Credits < 121 >    \*\* Senior Capstone  
                               \*Writing Intensive

SO – Spring Only  
 FO – Fall Only  
 B – Both Sem.  
 V – Variable

## **ART (ART) (05)**

### **ART-101. INTRODUCTION TO ART**

**3:3:0**

A survey of history from prehistoric times to the present, the course offers an introduction to analysis and evaluation of the visual arts, with emphasis on the relationship of end product to design, technique, and cultural background. The main purpose of the course is to gain appreciation for all art forms. Lectures are presented with the use of slides/PowerPoint and other visual aids.

Credit, three hours.

### **ART-103. INTRODUCTION TO DRAWING**

**3:3:3**

This is a basic drawing and composition course. The exploration of a variety of techniques, tools, and media used in drawing. Studies include problems in composition, line, perspective, volume, and value. There is a laboratory fee.

Credit, three hours.

### **ART-104. TWO-DIMENSIONAL DESIGN (2D-DESIGN)**

**3:3:3**

An introduction to the fundamental elements and principles of design and composition through studies promoting understanding and application of these concepts. There is also a laboratory fee.

Credit, three hours.

### **ART-108. SURVEY OF MACINTOSH STUDIO**

**3:4:0**

The course introduces basic computer literacy skills, principles, and specific applications that are related to computer graphics and multimedia applications to students who never used computers in the arts. There will be an introduction to the World Wide Web. There is a laboratory fee.

Credit, three hours.

### **ART-191. UNIVERSITY SEMINAR I-ART**

**1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **ART-192. UNIVERSITY SEMINAR II- ART**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **ART-201. ART EDUCATION: THEORY AND PRACTICE**

**3:3:0**

The course is designed to introduce elementary and art education majors to theories and practices of art education as they investigate contemporary trends in teaching art. Course content focuses on the four (4) components of Discipline Based Art Education (DBAE): art history, aesthetics, criticism, and production, while utilizing a holistic model that reflects state and national standards, and the use of art as a vehicle for self-expression. Course content will also explore the growth and development of children as revealed in their art, and the integration of art into Social Science, Mathematics, Science, and Language Art curriculum. There is a laboratory fee.

Credit, three hours.

**ART-205. INTERMEDIATE DRAWING****3:3:3**

The course is geared to increase students' technical, critical, and historical knowledge as it pertains to various drawing media. Students will be able to study multiple problems that range from basic working fundamentals and methods to complex pictorial organization and imaginative perception of objects, scenes, and mark making as a conveyor of feeling, sensation, and personal ideas. The emphasis will be on art studio production, but will be balanced with critical dialogue lectures on techniques, historical references, and student research (Lab Fee).

Prerequisites: ART-103, ART-104, or consent of the Instructor.

Credit, three hours.

**ART-206. THREE-DIMENSIONAL DESIGN (3D-DESIGN)****3:3:3**

Geared to introduce the student to studio work in three-dimensional design, basic spatial concepts, and creation of expression with attention to form, space arrangement, movement, proportion, unity, and contrast (Lab Fee).

Prerequisites: ART-103, ART-104, or consent of the Instructor for non-art majors.

Credit, three hours.

**ART-207. COMPUTER GRAPHICS****3:3:3**

Graphic Design and Typography continues to develop design concepts with an emphasis on layout and design on the Macintosh computer. Type styles and design, pre-press color theory, and visual communication are stressed. There is a laboratory fee.

Credit, three hours.

**ART-208. COMPUTER IMAGING****3:3:3**

The course treats the Macintosh computer as a fine arts tool. Emphasis is placed on creating aesthetically pleasing works of art. Students will create new images using drawing and painting software and will be able to manipulate existing photographs using a color scanner and image processing software. There is a laboratory fee.

Prerequisites: ART-103, ART-104, ART-108, or consent of the Instructor.

Credit, three hours.

**ART-209. DRAWING AND PAINTING FOR NON-MAJORS****3:3:3**

Drawing and Painting for non-majors offers an introduction to basic studio art practices and art appreciation. Students will have the opportunity to acquire technical artistic skills, and the chance to explore various materials and methods for drawing and painting. Students will be encouraged to develop basic techniques of representational drawing and painting. There is also a laboratory fee.

Credit, three hours.

**ART-229. ARTS MANAGEMENT SEMINAR****3:3:0**

This seminar is designed to introduce students to careers and opportunities in the arts management field. Students will research current trends in arts administration and explore the diversity of career opportunities. Students will have the opportunity to connect with a community arts organization and to develop a model project that portrays an understanding of organizational and programmatic development.

Credit, three hours.

**ART-300. FIBERS****3:3:3**

Studio experience in fiber art forms including weaving, macramé, fiber sculpture, various loom and off-loom procedures, warp design, basic weaves and knots, and designing woven textiles. There is also a laboratory fee.

Credit, three hours.

**ART-301. SCULPTURE I****3:3:3**

Emphasis is placed on manipulation of media in sculpture design utilizing clay, plaster, wood, and other materials.

Prerequisites: Consent of the Instructor for non-Art majors.

Credit, three hours.

**ART-302. CERAMICS I****3:3:3**

Hand-building techniques are covered with an introduction to the potter's wheel and other ceramics techniques including firing and glaze making. There is also a laboratory fee.

Prerequisites: Consent of the Instructor for non-Art majors.

Credit, three hours.

**ART-303. JEWELRY DESIGN****3:3:3**

An introduction to basic jewelry techniques including the lost wax process. There is also a laboratory fee.

Prerequisites: ART-103, ART-104, ART-206, or consent of the Instructor for non-Art majors.

Credit, three hours.

**ART-304. INTRODUCTION TO PAINTING****3:3:3**

Introduces students to basic painting techniques and problems through the exploration of color mixture, form, content, and pictorial depth in a variety of media. Emphasis on proper archival techniques, canvas, paper choices, and stretcher building will be included. Historical and contemporary approaches to painting will be studied through hands-on studio demonstrations followed by concentrated student projects. There is a laboratory fee.

Prerequisites: Consent of the Instructor for non-Art majors.

Credit, three hours.

**ART-307. WATERCOLOR (PAINTING II)****3:3:3**

Introduces various methods of handling watercolor. Experimentation with techniques, development of skills, discussion of methods, and styles of watercolorists will be explored. There is a laboratory fee.

Prerequisites: ART-103, ART-104, ART-304, or consent of the Instructor.

Credit, three hours.

**ART-308. LIFE DRAWING****3:3:3**

Designed to help the student develop ability in drawing from life. The course includes the drawing of the human figure and the development of an understanding of the structure of the human anatomy. There is a laboratory fee.

Prerequisites: ART-103, or consent of the Instructor.

Credit, three hours.

**ART-315. MODERN ART****3:3:0**

The development of the visual arts from the First World War to present day. Emphasis will be on the many styles and objectives of contemporary artists and their antecedents.

Credit, three hours.

**ART-316. AFRICAN-AMERICAN ART HISTORY/MODERN****3:3:0**

Primarily concerned with the history of African-American art in the United States, the course also investigates the survival of African forms in the Caribbean and in South America. Although the emphasis is on art history, the styles and objectives of modern artists and their antecedents, the course is interdisciplinary and draws upon visual and literary examples of an African legacy in American life. Museum visits and an independent research and/or studio projects supplement slide lectures, video, and class discussion.

Credit, three hours.

**ART-317. ART HISTORY I****3:3:0**

A study of the development of visual art forms with an emphasis on drawing, printmaking, pottery, painting, sculpture, architecture, crafts, and the preservation of art. The content area of study will include Prehistoric art up through the Gothic Period of art within Western Civilization. Students will know and be able to recognize the differences between the following aspects of art: the illustrative, the decorative, and the expressive.

Credit, three hours.

**ART-318. ART HISTORY II****3:3:0**

A study of humanism from the Proto-Renaissance up to the birth of the Modern Art Movement. Students will examine the development of visual art forms with an emphasis on drawing, printmaking, painting, sculpture, architecture, crafts, and the preservation of art. The content area of study will include the role of religion, politics, and societal change and its affect on art. Students will know and be able to recognize the differences between the following aspects of art: the illustrative, the decorative, and the expressive.

Credit, three hours.

**ART-320. AESTHETIC ISSUES IN ART EDUCATION****3:3:0**

An introduction to a variety of cultural institutions and their aesthetics and criticism with an emphasis on their relationships to the artist and the viewer.

Credit, three hours.

**ART-325. PHOTOGRAPHY****3:4:3**

Photography 325 is a course that is designed to give the student an introduction to the 35mm camera and the darkroom and deals primarily with black and white photography techniques. Previous photographic knowledge is helpful but not necessary to successfully complete the course. Both aesthetic and technical concepts are introduced and developed from the most elementary level. A variety of assignments are provided to challenge the student. The production of high quality prints is stressed. A 35-mm. camera with manual capabilities is required. Limited enrollment restrictions apply due to the necessary provision of facilities and equipment needed for each student. There is a laboratory fee.

Prerequisites: Consent of the Instructor for non-Art majors.

Credit, three hours.

**ART-329. UNIVERSITY GALLERY INTERNSHIP****3:3:0**

The course is designed to provide practical experience to Arts Management students in the business of running an art gallery. There is a laboratory fee.

Prerequisites: ART-229.

Credit, three hours.

**ART-333. PRINTMAKING****3:3:3**

The course will introduce students to various fine arts methods of printmaking. Mono-print, relief, intaglio, and serigraph processes will be explored. Painterly and photographic approaches to creating designs suitable for printing methods will be encouraged. Once approaches to basic media have been introduced, students will be guided to combine processes in a contemporary manner. There is a laboratory fee.

Prerequisites: ART-103, ART-104, or consent of the Instructor for non-Art majors.

Credit, three hours.

**ART-340. ART FOR SPECIAL EDUCATION****3:3:0**

The course is designed to deal with the teaching of the exceptional children and those children with disabilities. Educational processes and methods will be provided to augment the growth and development of the child's behavior through an integrated arts approach. There is a laboratory fee.

Credit, three hours.

**ART-341. METHODS AND MATERIALS FOR ELEMENTARY ART TEACHERS****3:3:0**

The course is designed to give prospective elementary art teachers current methods and practices in art education through discussions, readings, classroom observations, field trips, and visual media. There is a laboratory fee.

Credit, three hours.

**ART-342. METHODS AND MATERIALS FOR SECONDARY ART TEACHERS****3:3:0**

The course is designed to give prospective secondary art teachers current methods and practices in art education through discussions, readings, classroom observations, field trips, and visual media. There is a laboratory fee.

Credit, three hours.

**ART-408. ADVANCED PAINTING (PAINTING III)****3:3:3**

Emphasizes oil painting, acrylic painting, and newer media. The course will give further experience in painting as a means of expression. Students will focus on a series of related works in relationship to concept, technique, and media. There is a laboratory fee.

Prerequisites: ART-103, ART-104, ART-304, or consent of the Instructor for non-Art majors.

Credit, three hours.

**ART-410. SEMINAR IN ART EDUCATION****1:2:0**

The course will enable students to discuss situations and problems encountered in their student teaching in the context of current concepts and philosophy in Art Education. Should be taken concurrently with EDUC-400.

Credit, one hour.

**ART-411. SCULPTURE II****3:3:3**

Designed to offer extensive use of building methods and some metal techniques. There is also a laboratory fee.

Prerequisites: ART-103, ART-104, ART-206, ART-302.

Credit, three hours.

**ART-412. CERAMICS II****3:3:3**

This is a laboratory course with lecture. Hand-building techniques are covered with an in-depth exploration of the potter's wheel and other ceramics techniques including firing, and glaze making and application. There is a laboratory fee.

Prerequisites: ART-103, ART-104, ART-206, ART-301.

Credit, three hours.

**ART-414. ADVANCED COMPUTER IMAGING****3:3:3**

Assignments will be individualized with the consent of the Instructor in the first half of the course. Emphasis will be placed on collage and digital painting techniques, aesthetic development, color correction for multiple output options, complex masking and compositing, and acquiring control over the subtle application of special effects filters. The second half of the course will introduce students to three-dimensional applications and/or time based media. There is a laboratory fee.

Credit, three hours.

**ART-425. ADVANCED PHOTOGRAPHY****3:4:3**

Designed to give the students an opportunity to continue their work in black and white photographic techniques and to develop advanced camera skills. Part of the course will involve the use of the computer for enhancing the photograph and the use of mixed media combined with the photographic image (Lab Fee).

Prerequisites: ART-325.

Credit, three hours.

**ART-429. COMMUNITY ARTS INTERNSHIP****12:0:12**

This capstone course is designed to introduce arts management students to the business of art through a practicum experience within a community arts setting. Students will be assigned to an arts organization for a semester field experience.

Credit, twelve hours.

**ART-445. INDEPENDENT STUDY****3:3:0**

445A (Ceramics), 445B (Painting), 445C (Watercolor), 445D (Photography), 445E (Drawing), 445F (Sculpture), 445G (Graphics), 445H (Art History), 445I (Printmaking). The course is designed to allow the qualified advanced art major to pursue, in-depth, a selected area of interest in Art or Art Education under the guidance of an Art faculty member.

Prerequisites: Consent of the Chair. Junior or Senior status (or special students).

Credit, three hours.

**ART-445A. INDEPENDENT STUDY – CERAMICS****3:3:0**

The course is designed to allow the qualified advanced art major to pursue, in-depth, a selected area of interest in Art or Art Education under the guidance of an Art faculty member.

Prerequisites: Consent of the Chair. Junior or senior status (or special students).

Credit, three hours.

**ART-445B. INDEPENDENT STUDY – PAINTING****3:3:0**

The course is designed to allow the qualified advanced art major to pursue, in-depth, a selected area of interest in Art or Art Education under the guidance of an Art faculty member.

Prerequisites: Consent of the Chair. Junior or senior status (or special students).

Credit, three hours.

**ART-445C. INDEPENDENT STUDY – WATERCOLOR****3:3:0**

The course is designed to allow the qualified advanced art major to pursue, in-depth, a selected area of interest in Art or Art Education under the guidance of an Art faculty member.

Prerequisites: Consent of the Chair. Junior or senior status (or special students).

Credit, three hours.

**ART-445D. INDEPENDENT STUDY – PHOTOGRAPHY****3:3:0**

The course is designed to allow the qualified advanced art major to pursue, in-depth, a selected area of interest in Art or Art Education under the guidance of an Art faculty member.

Prerequisites: Consent of the Chair. Junior or senior status (or special students).

Credit, three hours.

**ART-445E. INDEPENDENT STUDY – DRAWING****3:3:0**

The course is designed to allow the qualified advanced art major to pursue, in-depth, a selected area of interest in Art or Art Education under the guidance of an Art faculty member.

Prerequisites: Consent of the Chair. Junior or Senior status (or special students).

Credit, three hours.

**ART-445F. INDEPENDENT STUDY – SCULPTURE****3:3:0**

The course is designed to allow the qualified advanced art major to pursue, in-depth, a selected area of interest in Art or Art Education under the guidance of an Art faculty member.

Prerequisites: Consent of the Chair. Junior or senior status (or special students).

Credit, three hours.

**ART-445G. INDEPENDENT STUDY – GRAPHICS****3:3:0**

The course is designed to allow the qualified advanced art major to pursue, in-depth, a selected area of interest in Art or Art Education under the guidance of an Art faculty member.

Prerequisites: Consent of the Chair. Junior or Senior status (or special students).

Credit, three hours.

**ART-445H. INDEPENDENT STUDY – ART HISTORY****3:3:0**

The course is designed to allow the qualified advanced art major to pursue, in-depth, a selected area of interest in Art or Art Education under the guidance of an Art faculty member.

Prerequisites: Consent of the Chair. Junior or senior status (or special students).

Credit, three hours.

**ART-445I. INDEPENDENT STUDY – PRINTMAKING****3:3:0**

The course is designed to allow the qualified advanced art major to pursue, in-depth, a selected area of interest in Art or Art Education under the guidance of an Art faculty member.

Prerequisites: Consent of the Chair. Junior or senior status (or special students).

Credit, three hours.

**ART-450. SENIOR EXPERIENCE IN ART****9:9:0**

The senior experience is divided into three (3) parts: 1) a senior thesis, 2) an individual show 3) and a professional portfolio. The course is required of all Studio Art majors. The course is taken and completed during the last semester of the senior year (Lab Fee).

Credit, nine hours.

**ART-460. SELECTED TOPICS IN ART EDUCATION****3:3:0**

This course is a continued in-depth independent study by the qualified advanced art major or minor (or under certain circumstances, a special student) that wishes to pursue a specific interest in art, based on the topic chosen. Each student will coordinate specific goals and requirements with his or her professor. Prerequisites: Consent of Instructor and Chair.

Credit, three hours.

**ART-461. SELECTED TOPICS IN ART HISTORY****3:3:0**

The course is a continued in-depth independent study by the qualified advanced art major or minor (or under certain circumstances, a special student) that wishes to pursue a specific interest in art, based on the topic chosen. Each student will coordinate specific goals and requirements with his or her professor. Prerequisites: Consent of Instructor and Chair.

Credit, three hours.

**ART-462. SELECTED TOPICS IN STUDIO ARTS****3:3:3**

The course is a continued in-depth independent study by the qualified advanced art major or minor (or under certain circumstances, a special student) that wishes to pursue a specific interest in art, based on the topic chosen. Each student will coordinate specific goals and requirements with his or her professor. Prerequisites: Consent of Instructor and Chair (Lab Fee).

Credit, three hours.

**ART-463. SELECTED TOPICS IN ART THEORY****3:3:0**

The course is a continued in-depth independent study by the qualified advanced art major or minor (or under certain circumstances, a special student) that wishes to pursue a specific interest in art, based on the topic chosen. Each student will coordinate specific goals and requirements with his or her professor. Prerequisites: Consent of Instructor and Chair.

Credit, three hours.

**ART-464. SELECTED TOPICS IN ARTS MANAGEMENT****3:3:0**

The course is a continued in-depth independent study by the qualified advanced art major or minor (or under certain circumstances, a special student) that wishes to pursue a specific interest in art, based on the topic chosen. Each student will coordinate specific goals and requirements with his or her professor. Prerequisites: Consent of Instructor and Chair.

Credit, three hours.

**ART-495. COOPERATIVE EDUCATION****3-9:3:0**

Cooperative Education allows students to combine academic study with on-the-job experience by working on paid training assignments coordinated by the Department. The major objective of cooperative education is the application of classroom theory to a work environment.

Prerequisites: Consent of the Instructor.

Credit, three to nine hours.



## **DEPARTMENT OF ENGLISH AND FOREIGN LANGUAGES**

### **ENGLISH PROGRAM**

**Chair:** Diop

**Professors:** Balogun, Jackson,

**Associate Professors:** Amoako, Brown, Diop, Nielsen, Young

**Department Assistants:** Belcher, Blake

The role and function of the English Program in the Department of English and Foreign Languages at Delaware State University is threefold:

1. The Department provides instruction in language, composition, speech, and humanities for the General Education Program.
2. The Department offers instruction in language and literature, speech, methods of teaching English, linguistics, and language arts for the teacher education program.
3. The Department provides instruction in languages and literature, speech, drama, grammar and composition, and linguistics for the liberal arts program.

### **CURRICULUM OPTIONS IN ENGLISH**

#### **English Major (Non-Teaching)**

All students who select this major must complete the General Education Program as required of all students (See General Education Requirements). In addition to twelve (12) hours of a foreign language, the following courses are required in the major area: English 105, 204, 301-302, 305, 306-307, 311, 402, and 403, and twelve (12) hours of English electives.

#### **English Major (Teaching)**

All students who select a teaching major in English must complete the General Education Program as required of all students (See General Education Requirements). In addition, the following courses must be completed for the major: English 105, 301-302, 305, 306-307, 311, 329, 402, 403-404, and 410, and three (3) hours of English electives, Education 313, 322, 357, and 400, Psychology 201, and 316. Majors are required to pass their major courses with a "C" or better.

#### **English Minor**

All students who select a minor in English must complete the following requirements: English 105, 204, 301 or 302, 305, 306 or 307, 311, and 403.

#### **Theatre Arts Minor**

All students who select a minor in Theatre Arts must complete the following requirements: English 107, 109, 111, 313, and 320. Other courses may be substituted with the approval of the Department.

**B.A. DEGREE IN ENGLISH**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-191	University Seminar I	1	ENGL-105	Basic Study of Literature	3
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
HIST-xxx	American History	3	xx-xxx	Social Science Elective	3
MTSC-101	Survey of Mathematics I	3	MTSC-102	Survey of Mathematics II	3
xx-xxx	Natural Science	3	xx-xxx	Natural Science	3
xx-xxx	Arts/Humanities Elective	3	MVSC-100	Wellness	2
			ENGL-192	University Seminar II	1
	Total Credits	16		Total Credits	18
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	ENGL-204	Linguistics	3
ENGL-301	English Literature I	3	ENGL-302	English Literature II	3
xx-xxx	Foreign Language 101	3	xx-xxx	Foreign Language 102	3
ENGL-201/205	World/African-American Literature I	3	ENGL-202/206	World/African-American Literature II	3
PSYC-201	Intro. to General Psychology	3	ENGL-xxx	English Elective	3
xx-xxx	Arts/Humanities Elective	3			
	Total Credits	18		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-311	Advanced Composition ►	3	ENGL-305	Shakespeare	3
ENGL-306	American Literature I	3	ENGL-307	American Literature II	3
ENGL-xxx	English Elective	3	ENGL-xxx	English Electives	6
xx-xxx	Foreign Language 201	3	xx-xxx	Foreign Language 202	3
GLST-395	Global Societies	3			
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-	Contemporary Literature	3	ENGL-403	*Senior Seminar	3

402					
ENGL- xxx	English Elective	3	xx-xxx	Electives (Free)	9
xx-xxx	Electives (Free)	6			
	Total Credits	12		Total Credits	12

**\*Senior Capstone**

**► Writing Intensive Course**

Total Credits: 121
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**B.A. DEGREE IN ENGLISH EDUCATION**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-191	University Seminar I	1	ENGL-192	University Seminar II	1
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
HIST-xxx	American History	3	EDUC-204	Philosophical Found. of Education	3
MTSC-101	Survey of Mathematics I	3	MTSC-102	Survey of Mathematics II	3
xx-xxx	Natural Science	3	xx-xxx	Natural Science	3
EDUC-344	Instructional Tech in Ed	3	MVSC-100	Wellness	2
			ENGL-105	Basic Study of Literature	3
	Total Credits	16		Total Credits *TAKE PRAXIS I	18
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
xx-xxx	Foreign Language 101	3	xx-xxx	Foreign Language 102	3
ENGL-201/205	World/African-American Literature I	3	ENGL-202/206	World/African American Literature II	3
ENGL-301	English Literature I	3	ENGL-302	English Literature II	3
PSYC-201	Intro. to General Psychology	3	xx-xxx	Arts/Humanities Elective	3
MSCM-208	Intro to Mass Communications	3	ENGL-200	Speech	3
	Total Credits	15		Total Credits **ADMISSION TO TEP (45 credits-GPA 2.5)	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-311	Advanced Composition ►	3	ENGL-305	Shakespeare	3
ENGL-306	American Literature I	3	ENGL-307	American Literature II	3
EDUC-318/ 31-395	Multicultural Ed/Global Societies	3	PSYC-316	Developmental Psychology	3
EDUC-313	Intro. to Exceptional Children	3	ENGL-329	Adolescent Literature	3
EDUC-322	Teaching Reading in Sec. Schools	3	ENGL-410	The Structure of Mod. English	3
	Total Credits	15		Total Credits ***TAKE PRAXIS II	15
Senior Fall Semester			Senior Spring Semester		

Course	Course Name	Cr	Course	Course Name	Cr
EDUC-357	Eff. Teach. Skills & Classr Mngmt	4	EDUC-400	Pre-service/Student Teaching	12
EDUC-416	Analysis of Student Teaching	1			
ENGL-402	Contemporary Literature	3			
ENGL-404	Teaching English in High School	3			
ENGL-403	****Senior Seminar	3			
ENGL-xxx	English Elective	3			
Total Credits		17	Total Credits		12

\*TAKE THE PRAXIS I

\*\*SEE CATALOG FOR COMPLETE EXPLANATION

\*\*\*TAKE PRAXIS II (MUST PASS BEFORE STUDENT TEACHING)

\*\*\*\*SENIOR CAPSTONE EXPERIENCE

Total Credits: 123
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► **Writing Intensive Course**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

## **ENGLISH (ENGL) (01)**

### **ENGL-098. CONV ENGLISH – NON-NATIVE OF ENGLISH**

**3:3:0**

Credit, three hours. Credits do not count toward graduation.

### **ENGL-099. WRITING SKILLS/ENGLISH AS A SECOND LANGUAGE**

**3:3:0**

This is a required course for all non-native speakers of English who make unsatisfactory scores on the English Placement Tests. Cross-listed with Foreign Languages. (Non-degree).

Credit, three hours. Credits do not count toward graduation.

### **ENGL-097. WRITING SKILLS**

**3:3:0**

The course is a required course for all students who make unsatisfactory scores on the English placement tests. Emphasis is placed on the development of basic writing skills with a review of grammar and the mechanics of writing. Students are eligible to enroll in 01-101 upon completion of the course. (Non-degree)

Credit, three hours. Credits do not count toward graduation.

### **ENGL-101. ENGLISH COMPOSITION I**

**3:3:0**

The course is designed to develop skills and competence in writing prose compositions, reading, and listening. Problems in logical thought, organization of ideas, and comprehension in reading will receive special attention. All students are required to earn a grade of "C" or better or they must repeat the course.

Prerequisites: Exemption from taking placements tests, a passing score on the English placement test, or successful completion of ENGL-100.

Credit, three hours.

### **ENGL-102. ENGLISH COMPOSITION II**

**3:3:0**

The course is a continuation of English 101. Emphasis will be placed on longer critical writing and the research paper. All students are required to earn a grade of "C" or better or they must repeat the course.

Prerequisites: ENGL-101.

Credit, three hours.

### **ENGL-105. BASIC STUDY OF LITERATURE**

**3:3:0**

The course is designed to help students develop an appreciation and understanding of literature. Attention is given to forms, styles, and ideas in selected works of poetry, drama, and short fiction. Students are also encouraged to write critically about literature. Required of all English and English Education majors.

Prerequisites: ENGL-101.

Credit, three hours.

### **ENGL-107. CREATIVE DRAMATICS**

**3:3:0**

The course is designed to aid teachers in the creative facets of learning. Emphasis is placed upon the use of the arts to improve the learning environment. Students take part in storytelling, story-dramatization, and pantomime.

Credit, three hours.

### **ENGL-109. ACTING I**

**3:3:0**

The course is a basic acting course designed to introduce the fundamental skills of performance. Coursework includes exercises to develop physical and vocal freedom and performance of scenes and improvisations.

Credit, three hours.

### **ENGL-111. MOVEMENT AND NON-VERBAL COMMUNICATION**

**3:3:0**

The course is designed to give intensive physical training to achieve strength and control of bodily movement, to explore basic mime techniques as they relate to non-verbal communication, and to provide extensive work in theatre games to achieve physical and emotional freedom and stimulate a creative atmosphere.

Credit, three hours.

**ENGL-113. INTRODUCTION TO THEATRE****3:3:0**

The course will provide the student with a general overview of theatre and its use and effect in the culture. The student will read from a general sampling of dramatic literature in its various forms including stage dramas, comedies, musicals, and other dramatic forms. Students will also be encouraged to attend and respond to campus and local productions.

Credit, three hours.

**ENGL-191. UNIVERSITY SEMINAR I – ENGLISH AND FOREIGN LANGUAGES****1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

**ENGL-192. UNIVERSITY SEMINAR II – ENGLISH AND FOREIGN LANGUAGES****1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

**ENGL-200. SPEECH****3:3:0**

The course provides the student training in the fundamentals of diction and effective oral expression in prepared, extemporaneous, and informative speeches. Emphasis placed upon preparation and delivery. Techniques of interviewing will be explored.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.

**ENGL-201. WORLD LITERATURE I****3:3:0**

A broad cultural background is sought through a study of the literature and a consideration of the ideas expressed by the great men of letters from ancient Greece through the Renaissance (during the first semester) and from the Renaissance to the 20th century (second semester).

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours each.

**ENGL-202. WORLD LITERATURE II****3:3:0**

A broad cultural background is sought through a study of the literature and a consideration of the ideas expressed by the great men of letters from ancient Greece through the Renaissance (during the first semester) and from the Renaissance to the 20th century (second semester).

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours each.

**ENGL-204. LINGUISTICS****3:3:0**

This is an introduction to the scientific study of language with emphasis on the application of modern linguistic science to the teaching of grammar and writing.

Credit, three hours.

**ENGL-205. AFRICAN-AMERICAN LITERATURE I****3:3:0**

The aim of this course is to trace the beginning of African-American literature from the early plantation era to the modern phase which began with the Great Depression of the 1930's.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.

**ENGL-206. AFRICAN-AMERICAN LITERATURE II****3:3:0**

The course traces African-American writings from the early 1930's, which saw a new concern for social equality between blacks and whites, to the present day.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.

**ENGL-207. BLACK PROSE AND POETRY****3:3:0**

The course focuses on the imaginative literature by black writers. The course which includes a wide range of styles, techniques, and themes will be presented in three (3) main genres: stories, plays, and poems. To encourage concentrated study, critical essays by noted black critics are studied in depth.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.

**ENGL-210. INTRODUCTION TO FILM****3:3:0**

The course examines the art of film and introduces the students to the techniques and styles of representative filmmakers. Special emphasis is placed on theories of film and methodology of film criticism as well as social, historic, and artistic relevance.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.

**ENGL-211. CREATIVE WRITING****3:3:0**

The course examines the art of creative writing. Special attention will be given to the short story, poetry, and play writing. The student is encouraged to improve by constant comparison of his work with the best achievements in fiction and poetry.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.

**ENGL-212. ORAL INTERPRETATION****3:3:0**

The course provides an analysis of prose and dramatic literature through experimentation with techniques used to interpret literature orally. Communication skills are developed through group and individual readings.

Prerequisites: ENGL-101, ENGL-102, ENGL-200.

Credit, three hours.

**ENGL-213. INTRODUCTION TO CHILDREN'S THEATRE****3:3:0**

The course covers play and audience analysis, directing methods, and production techniques such as design of sets, props, and costumes. Each student participates in the fall children's theatre production at the college either by performing or doing technical production work.

Credit, three hours.

**ENGL-214. THE BLACK AMERICAN NOVEL****3:3:0**

The course examines the origins, styles, themes, and literary techniques of Black novelists in America from 1800 to the present. Works will be studied in relation to the social, historical, and political factors which influence them.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.



**ENGL-217. BLACK DRAMA****3:3:0**

The course is a survey of the American Black playwrights' contribution to American drama. Plays are examined for their artistic, historic, and social significance.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.

**ENGL-301. ENGLISH LITERATURE I****3:3:0**

This survey course is designed to increase the student's awareness of the significant trends in English literature beginning with the Anglo-Saxon period. The course emphasizes the work of the major English writers in relation to the literary movements and ideas of their periods.

Credit, three hours each.

**ENGL-302. ENGLISH LITERATURE II****3:3:0**

This survey course is designed to increase the student's awareness of the significant trends in English literature beginning with the Anglo-Saxon period. The course emphasizes the work of the major English writers in relation to the literary movements and ideas of their periods.

Credit, three hours each.

**ENGL-303. ENGLISH LITERATURE IN THE EIGHTEENTH CENTURY****3:3:0**

The course is a study of the Augustan Age with emphasis upon the reading of representative writers Defoe, Addison, Steele, Pope, Swift, and Dr. Johnson and his circle.

Credit, three hours.

**ENGL-304. THE ROMANTIC PERIOD IN ENGLISH LITERATURE****3:3:0**

The course consists of readings in the prose and poetry of Wordsworth, Coleridge, Scott, Byron, Shelley, and Keats, with some attention to critical reactions to their works and to a definition of Romanticism.

Credit, three hours.

**ENGL-305. SHAKESPEARE****3:3:0**

The aim of this course is to impress upon the student the cultural, historical, and philosophical significance of the works of Shakespeare in relation to modern living. Representative plays from the several literary periods of Shakespeare are studied.

Credit, three hours.

**ENGL-306. AMERICAN LITERATURE I****3:3:0**

Significant trends in American literary thought as reflected in the works of the major writers from the Colonial Period to the present are emphasized in the course.

Credit, three hours each.

**ENGL-307. AMERICAN LITERATURE II****3:3:0**

Significant trends in American literary thought as reflected in the works of the major writers from the Colonial Period to the present are emphasized in the course.

Credit, three hours each.

**ENGL-308. BRITISH AND AMERICAN DRAMA****3:3:0**

The course is a study of the major figures of British and American drama from the Age of Shakespeare to the 20th century.

Credit, three hours.

**ENGL-309. THE ENGLISH RENAISSANCE****3:3:0**

The course is a survey of the literature of the English Renaissance with special study of the major authors: Sidney, Spencer, Shakespeare, Johnson, and Donne.

Credit, three hours.

**ENGL-311. ADVANCED COMPOSITION****3:3:0**

Emphasis in this course is placed upon extensive practice in effective writing of prose composition.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.

**ENGL-313. PLAY PRODUCTION I****3:3:0**

Areas covered in this course include a general introduction to directing, staging, lighting, costuming, makeup, and other aspects of educational and recreational drama.

Credit, three hours.

**ENGL-314. MODERN DRAMA****3:3:0**

The course examines the major playwrights of the 20th century from Ibsen to Beckett and traces the development of modern drama.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.

**ENGL-316. AMERICAN LITERATURE OF AFRI-AMERICAN LIFE****3:3:0**

An examination of the Black American's role in American literature as a creator of the white writer's imagination, as a creator of literature, and as a critical observer of the literary scene.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.

**ENGL-317. SEMINAR IN GREEK TRAGEDY****3:3:0**

The course examines the major works of the three (3) great Greek tragedians: Aeschylus, Sophocles, and Euripides. Works are analyzed in relation to the major social, religious, and political thrusts of the 5th century, B.C.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.

**ENGL-319. MODERN NOVEL****3:3:0**

The course examines the novel as a genre and explores the development of the novel from James to Pynchon.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.

**ENGL-320. PLAY PRODUCTION II****3:3:0**

Play Production II is an extension of Play Production I. Areas covered in this course include a general introduction to directing, staging, lighting, costuming, makeup, and other aspects of educational and aesthetic drama. All students work, in one (1) of many capacities, with the executing of a major college stage production.

Prerequisites: ENGL-313.

Credit, three hours.

**ENGL-321. SEMINAR IN HUGHES, WRIGHT, AND BALDWIN****3:3:0**

The course examines the major works of these three (3) great Black writers. Close attention is given to their individual styles and techniques. Works are also studied in relation to the social and historical forces which influenced them.

Prerequisites: ENGL-101, ENGL-102, ENGL-201, ENGL-202, ENGL-205, ENGL-206.

Credit, three hours.

**ENGL-322. DIRECTING****3:3:0**

The course will give an overview of the background and techniques of the director in the theatre. Emphasis will be placed on the study of composition, scene analysis, movement, picturization, and rhythm from a director's viewpoint. The course will culminate in a public performance and a videotape project.

Prerequisites: ENGL-107, ENGL-109 or ENGL-110.

Credit, three hours.

**ENGL-323. THEATRE CRITICISM****3:3:0**

The course will examine the basic principles of the theatre criticism, survey the modern theories of theatre criticism, and investigate methods of evaluating theatre criticism. Trips to area productions and frequent practice in writing critiques will be a major focus of the course.

Prerequisites: ENGL-101, ENGL-102, ENGL-201, ENGL-202 or ENGL-205, ENGL-206, ENGL-311.

Credit, three hours.

**ENGL-324. PLAYWRITING****3:3:0**

The course is devoted to the analysis and writing of short plays for the stage. Students are required to write a series of exercise works focusing on basic playwriting techniques: use of action, plot, dialogue, characterization, setting, pantomime, and metaphor. The course will include reading assignments in dramatic literature parallel to techniques of each writing assignment and the reading aloud of students' works in laboratory sessions for discussion.

Prerequisites: ENGL-101, ENGL-102, ENGL-201, ENGL-202 or ENGL-205, ENGL-206.

Credit, three hours.

**ENGL-325. HISTORY OF THE THEATRE I****3:3:0**

The course emphasizes theatre structure, production techniques, individual artists, and movements in the development of theatre from the early cultural rituals to the 1700's in Europe, America, and the Orient.

Prerequisites: ENGL-101, ENGL-102, ENGL-201, ENGL-202 or ENGL-205, ENGL-206.

Credit, three hours.

**ENGL-326. HISTORY OF THE THEATRE II****3:3:0**

The course emphasizes theatre structure, production techniques, individual artists, and movements from the 1700's to the present in Europe, America, and the Orient.

Prerequisites: ENGL-318.

Credit, three hours.

**ENGL-327. INTERPERSONAL COMMUNICATIONS****3:3:0**

The course examines the use of verbal and nonverbal transactions to create, maintain, and change person-to-person relationships. Discussions, role-playing, models, and simulations will be used in instruction.

Prerequisites: ENGL-101, ENGL-102, ENGL-200.

Credit, three hours.

**ENGL-328. INTRODUCTION TO SPEECH PATHOLOGY****3:3:0**

The course examines the nature, etiology, and assessment of disorders of speech and language, including articulation, stuttering, voice, cleft palate, and childhood and adult aphasia.

Prerequisites: ENGL-101, ENGL-102, ENGL-200, PSYC-201.

Credit, three hours.

**ENGL-329. ADOLESCENT LITERATURE****3:3:0**

This is an interactive adolescent literature course designed to provide perspective teachers an overview of various genres, cultural perspectives, and universal themes in an age and developmentally appropriate context. Principles of selection, use, and evaluation are explored. Projects focus on the design and presentation of literary concepts suitable for classroom instruction.

Prerequisites: ENGL-101, ENGL-102.

Credit, three hours.

**ENGL-330. FORENSICS****3:3:0**

The course explores methods of debate, including techniques of formal and informal argument, analysis of propositions, strategies of persuasion, and preparation of briefs.

Prerequisites: ENGL-101, ENGL-102, ENGL-200.

Credit, three hours.

**ENGL-390. INDEPENDENT STUDY****1-3:1-3:0**

This course is intended for English majors who have reached Junior/Senior status and who, under the guidance of a qualified faculty member, conduct research, attend lectures, and carry out independent subject-specific tasks deemed appropriate by the faculty member. Other course requirements will be included in the faculty member's syllabus.

Prerequisites: Junior or senior status with 2.0 G.P.A. or higher, and consent of the Department Chair.

Credit, one to three hours.

**ENGL-400. TEACHING GRAMMAR AND COMPOSITION****3:3:0**

In this course the student learns how to teach Basic English skills (grammar and mechanics) as well as composition skills by observing, evaluating, and assisting the Instructor in an English 100 or English 101 class which consists of two (2) hours of class work and one (1) hour of conference with Instructor per week.

Prerequisites: Junior status, and consent of the Department.

Credit, three hours.

**ENGL-401. VICTORIAN LITERATURE****3:3:0**

The aim of this course is to present selected readings of the major poets of the period: Tennyson, Browning, Rossetti, and their contemporaries against the background of Victorian thought.

Credit, three hours.

**ENGL-402. CONTEMPORARY LITERATURE****3:3:0**

The course is a study of British and American writers of fiction and poetry since 1900, with emphasis on the main currents of thought in the 20th century.

Credit, three hours.

**ENGL-403. SENIOR SEMINAR****3:3:0**

The seminar embraces a correlation of the content of the various courses by review of periods, literary trends, and significant authors of English, American, and continental literature.

Credit, three hours.

**ENGL-404. TEACHING ENGLISH IN THE HIGH SCHOOL****3:3:0**

The course is designed to promote effective and knowledgeable teaching of composition and literature in the high school. The course covers the content to be taught, the insights needed by the teacher, and various methods recommended in teaching the subject.

Prerequisites: Consent of the Department.

Credit, three hours.

**ENGL-410. THE STRUCTURE OF MODERN ENGLISH****3:1:0**

Structure of Modern English is an advanced course in the grammar and structure of English. The course is designed to give intensive study and practice in analyzing the structure of English sounds, words, phrases, and sentences; doing error analysis; recognizing and correcting errors; taking examinations; writing research papers, and engaging in various pedagogically-oriented linguistic analysis projects.

Credit, three hours.

**ENGL-450. INTERNSHIP****6:3:18**

The course will provide a highly supervised program designed to give student's first-hand knowledge and hands-on experience in the discipline.

Prerequisites: Senior status, and consent of the Department.

Credit, three to twelve hours.

## **FOREIGN LANGUAGES PROGRAM**

**Chair:** Diop

**Associate Professors:** Sacko, McCallister, Diop

**Assistant Professor:** Teye

The objectives of the Foreign Languages Program of the English and Foreign Languages Department are: to develop cross-cultural understanding and the ability to communicate effectively in the language, to provide career-related language skills, and to prepare majors for graduate studies and/or teacher certification.

### **Teaching Major**

All students who select this major must complete the General Education Program as required of all students (See General Education Departments). Language majors seeking state certification to teach in secondary schools must take thirty-nine (39) credits of foreign language: FL 201, 202, 222, 301, 303, 304, 305, 334, 401, 405, 406, 409, and 499. They must also take: Psychology 201, and 204, and Education 204, 313, 318, 322, 357, 400, and 416. All coursework must be completed prior to student teaching. Teaching majors are encouraged to minor in a second language. (See Curriculum Guide Sheet for sequence in which courses should be taken.) Majors are required to pass their major courses with a “C” or better.

### **Non-Teaching Majors**

A total of thirty-nine (39) credit hours are required in FL 201, 202, 222, 301, 303, 304, 305, 306, 333, 334, 401, 406, and 499. (See Revised Curriculum Guide Sheet for sequence in which courses should be taken.)

### **Area of Concentration**

Education majors who select an area of concentration in French or Spanish are required to take the following twenty-four (24) credits: 201, 202, 203, 222, 242, 305 or 306, 334, and Methods 407 for K-8 certification or 409 for Secondary certification.

### **Minor**

For a minor in French or Spanish, twenty-four (24) hours are required: 201, 202, 222, 242, 305, 306, and 334, and a 300 level or above literature course.

### **Independent Study**

Independent Study option is for students who hold junior or senior level status or teachers who wish to pursue a special interest topic within the discipline of Foreign Languages under the guidance of a Foreign Language faculty member. Course requirements include but are not limited to regular conferences with the faculty member, reading assignments, and completion of a comprehensive project or a 10-page research paper in the language of study for 399 and a 15-page research paper in the language of study for 499. Students must sign a contract agreeing to the coursework requirements and must obtain the signatures of the consenting faculty member and of the Chair of the Department of English and Foreign Languages. Courses 399 and 499 are the designated for Independent Study. Course 499 may also be taken for graduate credit.

### **College Level Examination Program (CLEP)**

Any student who has completed two (2) or more high school units of a foreign language is encouraged to take the CLEP exam. The Department has established a policy as to the number of credits that can be awarded. The policy is as follows:

1. Foreign Language majors may be awarded up to twelve (12) credits.
2. Non-majors who are required to take twelve (12) hours of a foreign language may be awarded up to nine (9) credits.
3. Non-majors who are required to take six (6) hours of a foreign language may be awarded up to three (3) credits.

### **Oral Proficiency Interviews**

Any student who has successfully passed a recognized Oral Proficiency exam such as the American Council on Teaching Foreign Languages (ACTFL) Oral Proficiency Interview (OPI) may be awarded credit as follows:

- Foreign Language majors may be awarded up to nine (9) credits.
- Non-majors may be awarded up to six (6) credits.

### **Waivers**

The Department will consider a waiver of the prerequisite for a course when the student submits a request in writing and demonstrates proficiency in the area covered by the prerequisite.

**B.A. DEGREE IN SPANISH - NON TEACHING**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
SPAN-201	Inter. Spanish Lang & Culture I	3	SPAN-202	Inter. Spanish Lang & Culture II	3
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MTSC-101	Mathematics 101	3	MTSC-102	Mathematics 102	3
ENGL-191	University Seminar I	1	ENGL-192	University Seminar II	1
xx-xxx	Arts/Humanities Elective	3	SPAN-242	Basic Spanish Composition I	3
xx-xxx	Natural Science Elective	3	xx-xxx	Natural Science Elective	3
			MVSC-100	Wellness	2
Total Credits		16	Total Credits		18
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
SPAN-222	Spanish Conversation	3	SPAN-301	Inter. Spanish Comp & Stylistics II	3
PSYC-201	Intro to General Psychology	3	ENGL-200	Speech	3
ENGL-201/205	World/African-American Lit I	3	ENGL-202/206	World/African-American Lit II	3
SPAN-211	Business Registers I	3	SPAN-333	01-204 Linguistics	3
HIST-2xx	American History	3	SPAN-212	Business Registers II	3
Total Credits		15	Total Credits		15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
SPAN-303	Survey of Spanish Lit. to 1700	3	SPAN-304	Survey of Spanish Lit from 1700	3
SPAN-335	Basic Translation I	3	SPAN-336	Basic Translation II	3
SPAN-305	Spanish Civilization	3	SPAN-306	Latin American Civilization	3
SPAN-334	Spanish Diction and Conversation	3	SPAN-399	Independent Study I	3
GLST-395	Global Societies	3	SPAN-307	Latin American Literature	3
Total Credits		15	Total Credits		15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
SPAN-401	Adv. Comp & Stylistics III ►	3	SPAN-499	*Independent Study II	6
SPAN-308	Spanish Lit of the Golden Age	3	xx-xxx	**Foreign Language Electives	6
xx-xxx	Free Electives	6			

SPAN-406	History of the Spanish Language	3			
	Total Credits	15		Total Credits	12

\* SENIOR CAPSTONE EXP (May be taken abroad to fulfill the Study Abroad Requirement)

\*\* May be taken abroad to fulfill the Study Abroad Requirement

► **Writing Intensive Course**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 121
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**B.A. DEGREE IN FRENCH – NON TEACHING**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
FREN-201	Inter French Language & Culture I	3	FREN-202	Inter French Language & Culture II	3
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MTSC-101	Mathematics 101	3	MTSC-102	Mathematics 102	3
ENGL-191	University Seminar I	1	ENGL-192	University Seminar II	1
xx-xxx	Arts/Humanities Elective	3	FREN-242	Basic French Composition I	3
xx-xxx	Natural Science	3	xx-xxx	Natural Science	3
			MVSC-100	Wellness	2
	Total Credits	16		Total Credits	18
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
FREN-222	French Conversation	3	ENGL-301	Inter French Comp & Stylistics II	3
PSYC-201	Intro to General Psychology	3	ENGL-200	Speech	3
ENGL-201/205	World/African-American Lit I	3	ENGL-202/206	World/African American Lit II	3
FREN-211	Business Registers I	3	FREN-212	Business Registers II	3
HIST-xxx	American History	3	08-333	01-204 Linguistics	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
FREN-303	Survey of French Literature I	3	FREN-304	Survey of French Literature II	3
FREN-305	French Civilization	3	FREN-306	Aspects of French Culture in the Americas	3
FREN-334	French Diction and Conversation	3	FREN-399	Independent Study I	3
FREN-335	Basic Translation I	3	FREN-336	Basic Translation II	3
GLST-395	Global Societies	3	FREN-307	17 <sup>th</sup> Century French Literature	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
FREN-401	Adv French Comp & Stylistics III►	3	FREN-499	*Independent Study II	6
FREN-403	The French Novel	3	xx-xxx	**Foreign Language Electives	6

xx-xxx	Free Electives	6			
FREN-406	History of the French Language	3			
	Total Credits	15		Total Credits	12

\* SENIOR CAPSTONE EXP (May be taken abroad to fulfill the Study Abroad Requirement)

\*\* May be taken abroad to fulfill the Study Abroad Requirement

► Writing Intensive Course

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 121
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**B.A. DEGREE IN FRENCH / SPANISH EDUCATION**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
FREN/SP AN-201	Inter Spanish/French Lang & Cult	3	FREN/SP AN-202	Inter Spanish/French Lang & Cult	3
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MTSC-101	Mathematics I	3	MTSC-102	Mathematics II	3
ENGL-191	University Seminar I	1	ENGL-192	University Seminar II	1
xx-xxx	Natural Science Elective	3	34-xxx	American History	3
xx-xxx	Arts/Humanities Elective	3	xx-xxx	Natural Science Elective	3
			SPSC-100	Wellness	2
	Total Credits	16		Total Credits	18
				*TAKE PRAXIS I	
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
FREN/SP AN-242	Basic Composition I	3	FREN/SP AN-334	French/Spanish Diction and Conv.	3
ENGL-201/205	World/African American Lit I	3	ENGL-202/206	World/African American Lit II	3
PSYC-201	Intro to General Psychology	3	EDUC-207	Lifespan Development	3
ENGL-200	Speech	3	FREN/SP AN-333	ENGL-204 Linguistics	3
FREN/SP AN/222	French/Spanish Conversation	3	EDUC-204	Philosophical Foundations of Ed	3
			FREN/SP AN-301	Inter Composition & Stylistics	3
	Total Credits	15		Total Credits	18
				**ADMISSION TO TEP (45 credits-GPA 2.5)	
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
FREN/SP AN-305	Civilization I	3	FREN/SP AN-499	***Independent Study II	3
EDUC-313	Intro to Ed of Children with Exceptional Needs	3	PSYC-316	Developmental Psychology	3
EDUC-322	Teaching Reading in Sec. Schools	3	EDUC-357	Effective Tchg & Classroom Mgmt	4
EDUC-318	Multicultural Ed (Majors only)	3	EDUC-3xx	Instructional Technology	3
FREN/SP AN-303	Survey of French/Spanish Lit I	3	FREN/SP AN-304	Survey of French/Spanish Lit II	3
	Total Credits	15		Total Credits	16
				****TAKE PRAXIS II	
Senior Fall Semester			Senior Spring Semester		

Course	Course Name	Cr	Course	Course Name	Cr
LING-405	Second Language Testing	3	EDUC-400	*****Pre Service/Student Teaching	12
LING-409	Methods & Mats for Tchg Fore Languages	3			
EDUC-416	Analysis of Student Teaching	1			
xx-xxx	*****Foreign Language Elective	3			
FREN/SPAN-401	Adv Comp and Stylistics ►	3			
	Total Credits	13		Total Credits	12

\*\*\*\*\*SENIOR CAPSTONE EXPERIENCE

\*\*\*Independent Study II and \*\*\*\*\*Foreign Language Elective may taken abroad

► Writing Intensive Course

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 123
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## **LINGUISTICS (LING) (07)**

### **LING-098. CONVERSATIONAL ENGLISH FOR NON-NATIVE SPEAKERS**

**3:3:0**

The course will emphasize colloquial and idiomatic English expression, concentrating on listening comprehension and communicative skills. Does not satisfy the General Education Requirement.

Credit, three hours.

### **LING-099. ENGLISH AS A SECOND LANGUAGE (ESL)**

**3:3:0**

The Department of Foreign Languages and the English Department jointly offer this course. ESL is a course for non-native English speaking students, and it is designed to focus on listening, spoken communications and pronunciation, and reading/writing skills.

Credit, three hours.

### **LING-191. UNIVERSITY SEMINAR I – FOREIGN LANGUAGES**

**1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **LING-192. UNIVERSITY SEMINAR II – FOREIGN LANGUAGES**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **LING-203. USE OF MEDIA IN FOREIGN LANGUAGE INSTRUCTION**

**3:3:0**

The course will examine the use of foreign languages via various media forms including, but not limited to: the language laboratory, the video tape recorder, the computer, the Internet, and the newspaper. Emphasis will be on preparation and evaluation of materials in the language. The course is taught in English.

Prerequisites: FREN-201, FREN-202, or GERM-201, GERM-202, or SPAN-201, SPAN-202, or ITAL-201, ITAL-202, or JAPN-201, JAPN-202, or SWAH-201, SWAH-202, or ARAB-201, ARAB-202, or FULN-201, FULN-202.

Credit, three hours.

### **LING-403. METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE**

**3:3:0**

The course introduces students to basic concepts and methodologies for teaching second language learners. The course is designed as a review of theories, programs, approaches, strategies, and techniques for effective second language teaching methods. Additionally, the course addresses theories of acquisition of a second language.

Prerequisites: Twelve (12) semester hours of English.

Credit, three hours.

**LING-404. SECOND LANGUAGE ACQUISITION****3:3:0**

The course is an analysis of current issues in second language acquisition based on readings and research findings. Discussion of theories includes the Acculturation Model, the Nativization Model, Accommodation Theory, Discourse Theory, the Monitor Model, The Variable Competence Model, The Universal Hypothesis, Neuro-functional Theory and other models.

Prerequisites: Twelve (12) semester hours of a Foreign Language.

Credit, three hours.

**LING-405. SECOND LANGUAGE TESTING****3:3:0**

A study of the techniques of second language testing including development, selection, and evaluation for classroom, institutional, or research use. The course is required of teaching majors.

Prerequisites: Twelve (12) semester hours of a Foreign Language.

Credit, three hours.

**LING-409. METHODS AND MATERIALS OF TEACHING FOREIGN LANGUAGES****GRADES K-12****3:3:0**

Analysis of the methods of teaching modern foreign languages including recent developments in the field and consideration of applied linguistics in relation to language pedagogy. Theories of language learning, child development, and a historical analysis of foreign language programs and methodologies comprise the theoretical component of the course. The practical component addresses age appropriate instructional activities, assessment and evaluation of students and programs, effective classroom management, and integration of the curriculum and professional growth. The course is taken a semester before student teaching.

Prerequisites: Nine (9) credit hours of a Foreign Language.

Credit, three hours.

**ARABIC (ARAB) (114)****ARAB-101. ELEMENTARY ARABIC LANGUAGE AND CULTURE I****3:3:1**

Beginning level of Arabic will enable the student to acquire functional competency in listening, speaking, reading, and writing appropriate to this level. Students will receive a systematic and regular introduction to Arabic life and culture. Lab instruction is required.

Credit, three hours.

**ARAB-102. ELEMENTARY ARABIC LANGUAGE AND CULTURE II****3:3:1**

This is an accelerated honors course for beginners, which is designed to develop aural, oral, reading, and comprehension. Laboratory is required to enhance listening and speaking proficiencies. Students learn more concepts and grammatical structures not covered in the normal Arabic 101 such as the preterit and the imperfect tenses of the indicative mood as well as the imperative mood. Consequently, this intensive course challenges student to become more active learners of basic Arabic.

Prerequisites: ARAB-101 or two (2) years of high school study.

Credit, three hours.

**ARAB-201. INTERMEDIATE ARABIC LANGUAGE AND CULTURE I****3:3:1**

Students will continue to expand on the basic skills acquired in 101 and 102 and acquire more complex skills. They will also continue to study and appreciate the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: ARAB-101, ARAB-102 or three (3) years of high school study.

Credit, three hours.

**ARAB-202. INTERMEDIATE ARABIC LANGUAGE AND CULTURE II****3:3:1**

Students will develop and expand on the more complex competencies acquired in 201 and continue to demonstrate appreciation of the mores, customs, and contributions of the culture. Lab instruction required.

Prerequisites: ARAB-101, ARAB-102, ARAB-201 or four (4) years of high school study.

Credit, three hours.

**ARAB-301. ADVANCED ARABIC LANGUAGE AND CULTURE I****3:3:1**

Students will continue to expand on the basic skills acquired in 201 and 202 and acquire more complex skills. They will also continue to study and appreciate the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: ARAB-201, ARAB-202 or consent of the Department Chair.

Credit, three hours.

**ARAB-302. ADVANCED ARABIC LANGUAGE AND CULTURE II****3:3:1**

Students will develop and expand on the more complex competencies acquired in 201, 202, and 301, and continue to demonstrate appreciation of the mores, customs, and contributions of the culture. Lab instruction required.

Prerequisites: ARAB-301 or consent of the Department Chair.

Credit, three hours.

**CHINESE (CHIN) (116)****CHIN-101. ELEMENTARY CHINESE LANGUAGE AND CULTURE I****3:3:1**

Beginning level of Chinese will enable the student to acquire functional competency in listening, speaking, reading, and writing appropriate to this level. Students will receive a systematic and regular introduction to Chinese life and culture. Lab instruction is required.

Credit, three hours.

**CHIN-102. ELEMENTARY CHINESE LANGUAGE AND CULTURE II****3:3:1**

This course in Chinese Language and Culture is designed to develop aural, oral, reading, and comprehension. Laboratory is required to enhance listening and speaking proficiencies. Students learn more concepts and grammatical structures not covered in the normal Chinese 101.

Prerequisites: CHIN-101 or consent of the Department Chair.

Credit, three hours.

**CHIN-201. INTERMEDIATE CHINESE LANGUAGE AND CULTURE I****3:3:1**

Students will continue to expand on the basic skills acquired in 101 and 102 and acquire more complex skills. They will also continue to study and appreciate the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: CHIN-101, CHIN-102 or consent of the Department Chair.

Credit, three hours.

**CHIN-202. INTERMEDIATE CHINESE LANGUAGE AND CULTURE II****3:3:1**

Students will develop and expand on the more complex competencies acquired in 201 and continue to demonstrate appreciation of the mores, customs, and contributions of the culture. Lab instruction required.

Prerequisites: CHIN-201 or consent of the Department Chair.

Credit, three hours.

**FRENCH (FREN) (08)****FREN-101. ELEMENTARY FRENCH LANGUAGE AND CULTURE I****3:3:1**

Beginning level of French will enable the student to acquire functional competency in listening, speaking, reading, and writing appropriate to this level. Students will receive a systematic and regular introduction to French life and culture. Lab instruction is required.

Credit, three hours.

**FREN-101H. HONORS ELEMENTARY FRENCH LANGUAGE AND CULTURE I** **3:3:1**

This is an accelerated honors course for beginners, which is designed to develop aural, oral, reading, and comprehension. Laboratory is required to enhance listening and speaking proficiencies. Students learn more concepts and grammatical structures not covered in the normal French 101 such as the preterit and the imperfect tenses of the indicative mood as well as the imperative mood. Consequently, this intensive course challenges student to become more active learners of basic French.

Credit, three hours.

**FREN-102. ELEMENTARY FRENCH LANGUAGE AND CULTURE II** **3:3:1**

Students will continue to develop their 101 basic functional competencies and will study the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: FREN-101, FREN-101H or two (2) years of high school study.

Credit, three hours.

**FREN-102H. HONORS ELEMENTARY FRENCH LANGUAGE AND CULTURE II** **3:3:1**

The course for beginners is designed to develop aural, oral, basic reading, and comprehension. Laboratory use is required for listening and speaking. Given that this is an honors course, the pace is much faster than that of a normal French 102 course.

Prerequisites: FREN-101, FREN-101H or two (2) years of high school study.

Credit, three hours.

**FREN-201. INTERMEDIATE FRENCH LANGUAGE AND CULTURE I** **3:3:1**

Students will continue to expand on the basic skills acquired in 101 and 102 and acquire more complex skills. They will also continue to study and appreciate the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: FREN-102 or three (3) years of high school study.

Credit, three hours.

**FREN-202. INTERMEDIATE FRENCH LANGUAGE AND CULTURE II** **3:3:1**

Students will develop and expand on the more complex competencies acquired in 201 and continue to demonstrate appreciation of the mores, customs, and contributions of the culture. Lab instruction required.

Prerequisites: FREN-201 or four (4) years of high school study.

Credit, three hours.

**FREN-211. BUSINESS REGISTERS I** **3:3:0**

Appropriate grammatical structures and linguistic patterns for business secretaries and administrators.

Prerequisites: FREN-102.

Credit, three hours.

**FREN-212. BUSINESS REGISTERS II** **3:3:0**

Students will be exposed to situations in business, business enterprises, and international travel, and will be introduced to specialized vocabulary in the language of study appropriate for each situation.

Prerequisites: FREN-211.

Credit, three hours.

**FREN-222. FRENCH CONVERSATION** **3:3:0**

Practical use of the language toward fluency and correctness in speaking. Required of all teaching majors.

Prerequisites: FREN-201 or FREN-202.

Credit, three hours.



**FREN-242. BASIC FRENCH COMPOSITION AND STYLISTICS I** **3:3:0**

Basic study of syntax with emphasis on vocabulary and sentence building as applied to practical written communications such as letters, personal ads, and book/movie reviews.

Prerequisites: Nine (9) semester hours of French.

Credit, three hours.

**FREN-301. INTERMEDIATE FRENCH COMPOSITION AND STYLISTICS II** **3:3:0**

Development of descriptive, narrative, and expository writing with emphasis on grammar and vocabulary relevant to each. Particular attention will be given to the writing of the academic research paper in preparation for the 08-303 and 08-304 literature sequence. May be taken concurrently with 08-303 or 08-304.

Prerequisites: FREN-202.

Credit, three hours.

**FREN-303. SURVEY OF FRENCH LITERATURE I** **3:3:0**

A study of selected major literary works from the Middle Ages through the 17th century. Class conducted in French.

Prerequisites: FREN-301.

Credit, three hours.

**FREN-304. SURVEY OF FRENCH LITERATURE II** **3:3:0**

A study of selected works from the 18th to 20th centuries. Class conducted in French.

Prerequisites: FREN-301.

Credit, three hours.

**FREN-305. FRENCH CIVILIZATION** **3:3:0**

Systematic study of the origin and development of the French nation and its role in human history from the points of view of geography, history, social, and political institutions and its culture. Class conducted in French.

Prerequisites: Twelve (12) semester hours of French.

Credit, three hours.

**FREN-306. ASPECTS OF FRENCH CULTURE IN THE AMERICAS** **3:3:0**

The course is a survey of French involvement in the historical development of the new world. It covers the French participation and influence in the life of its old colonies: Canada, Haiti, and Louisiana, etc.; the French heritage in terms of ideas, religion, folklore; languages such as the Patois, the Creole, the "Jawal", etc.; and French influence and culture in South America. The course also explores the contributions of important French families to American culture. It may be used as an elective in both French and history curricula.

Prerequisites: Twelve (12) semester hours of French.

Credit, three hours.

**FREN-307. SEVENTEENTH CENTURY FRENCH LITERATURE** **3:3:0**

A study of selected works of great writers of France's Golden Age. Class conducted in French.

Prerequisites: Twelve (12) semester hours of French.

Credit, three hours.

**FREN-311. BUSINESS FL III: BANKING, TOURISM AND THE HOTEL INDUSTRY** **3:3:0**

The course is designed to provide opportunities for the student to apply functional language communication skills to situations of banking, tourism, and the hotel industry. Students will be introduced to specialized terminology in the language of study that is appropriate to each situation.

Prerequisites: FREN-202.

Credit, three hours.

**FREN-312. BUSINESS FL IV: BUSINESS COMPOSITION AND CORRESPONDENCES 3:3:0**

The course involves the application of oral and written communication skills to the business environment. Students will be introduced to the various business letter formats, develop skills and competencies in writing composition, and doing critique of articles from journals, newspapers, and business magazines.

Prerequisites: FREN-311.

Credit, three hours.

**FREN-333. GENERAL LINGUISTICS 3:3:0**

An introduction to the many branches of linguistics, second language acquisition, and some of the major issues surrounding it. Class conducted in English.

Prerequisites: Twelve (12) semester hours of a Foreign Language.

Credit, three hours.

**FREN-334. ADVANCED FRENCH DICTION AND CONVERSATION 3:3:0**

Practice in aural and oral understanding, pronunciation, and practical use of the language class practice conducted in French.

Prerequisites: Twelve (12) semester hours of French.

Credit, three hours.

**FREN-335. BASIC FRENCH TRANSLATION I 3:3:0**

The course will enable students to understand the appropriate duties of a translator/interpreter. They will learn the basic notions of accurately translating short paragraphs and learn the basic techniques of translation and procedures of language choice. The course is team-taught in English and language of study.

Prerequisites: FREN-202 or FREN-212.

Credit, three hours.

**FREN-336. BASIC FRENCH TRANSLATION II 3:3:0**

The course is designed to provide the student with more advanced situations requiring translation. Selected texts and registers will be compiled from diverse themes. Proper word order in translation will be emphasized. The course is team-taught in English and language of study.

Prerequisites: FREN-202 or FREN-212, FREN-335.

Credit, three hours.

**FREN-399. INDEPENDENT STUDY IN FRENCH I 3:3:0**

For students who hold junior or senior level status and who wish to pursue a special interest topic within the discipline of Foreign Languages under the guidance of a Foreign Language faculty member. Course requirements include but are not limited to regular conferences with the faculty member, reading assignments, and completion of a comprehensive project or a 10-page research paper. Students must sign a contract agreeing to the coursework requirements and must obtain signatures of the consenting faculty member and of the Chair of the Department of Foreign Languages.

Prerequisites: Twelve (12) semester hours of French.

Credit, three hours.

**FREN-403. THE FRENCH NOVEL 3:3:0**

Representative works of authors from the 17th Century to the 20th Century. Class conducted in French.

Prerequisites: FREN-303, FREN-304.

Credit, three hours.

**FREN-404. FRENCH DRAMA 3:3:0**

Analysis of plays by Corneille, Moliere, Racine, Marivaux, Hugo, and Dumas fils. Class conducted in French.

Prerequisites: FREN-304, or consent of the Instructor.

Credit, three hours.

**FREN-406. HISTORY OF FRENCH LANGUAGE****3:3:0**

The study of the evolution of the French language from its inception to its current state.

Prerequisites: FREN-301.

Credit, three hours.

**FREN-442. ADVANCED COMPOSITION AND STYLISTS III****3:3:0**

Credit, three hours.

**FREN-499. INDEPENDENT STUDY IN FRENCH II (SENIOR CAPSTONE EXPERIENCE) 3-9:6:0**

For students who hold Senior level status and who wish to pursue a special interest topic within the discipline of Foreign Languages under the guidance of a Foreign Language faculty member. Course requirements include but are not limited to regular conferences with the faculty member, reading assignments, and completion of a comprehensive project or a 15-page research paper. Students must sign a contract agreeing to the coursework requirements and must obtain signatures of the consenting faculty member and of the Chair of the Department of Foreign Languages. Students will be required to do an oral presentation of their research paper or special project.

Prerequisites: Twenty-four (24) credit hours, which must include Foreign Language 399 (FREN-399 or GERM-399 or 10-399 or 19-399), and at least one 400 level course.

Credit, three to nine hours.

**FULANI (FULN) (115)****FULN-101. ELEMENTARY FULANI LANGUAGE AND CULTURE I****3:3:1**

Beginning level of Fulani will enable the student to acquire functional competency in listening, speaking, reading, and writing appropriate to this level. Students will receive a systematic and regular introduction to Fulani life and culture. Lab instruction is required.

Credit, three hours.

**FULN-102. ELEMENTARY FULANI LANGUAGE AND CULTURE II****3:3:1**

This is an accelerated honors course for beginners, which is designed to develop aural, oral, reading, and comprehension. Laboratory is required to enhance listening and speaking proficiencies. Students learn more concepts and grammatical structures not covered in the normal Fulani 101 such as the preterit and the imperfect tenses of the indicative mood as well as the imperative mood. Consequently, this intensive course challenges student to become more active learners of basic Fulani.

Prerequisites: FULN-101 or two (2) years of high school study.

Credit, three hours.

**FULN-201. INTERMEDIATE FULANI LANGUAGE AND CULTURE I****3:3:1**

Students will continue to expand on the basic skills acquired in 101 and 102 and acquire more complex skills. They will also continue to study and appreciate the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: FULN-101, FULN-102 or three (3) years of high school study.

Credit, three hours.

**FULN-202. INTERMEDIATE FULANI LANGUAGE AND CULTURE II****3:3:1**

Students will develop and expand on the more complex competencies acquired in 201 and continue to demonstrate appreciation of the mores, customs, and contributions of the culture. Lab instruction required.

Prerequisites: FULN-101, FULN-102, FULN-201 or four (4) years of high school study.

Credit, three hours.

## **GERMAN (GERM) (09)**

### **GERM-101. ELEMENTARY GERMAN LANGUAGE AND CULTURE I**

**3:3:1**

Beginning level of German will enable the student to acquire functional competency in listening, speaking, reading, and writing appropriate to this level. Students will receive a systematic and regular introduction to German life and culture. Lab instruction is required.

Credit, three hours.

### **GERM-102. ELEMENTARY GERMAN LANGUAGE AND CULTURE II**

**3:3:1**

Students will continue to develop their 101 basic functional competencies and will study the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: GERM-101 or two (2) years of high school study.

Credit, three hours.

### **GERM-201. INTERMEDIATE GERMAN LANGUAGE AND CULTURE I**

**3:3:1**

Students will continue to expand on the basic skills acquired in 101 and 102 and acquire more complex skills. They will also continue to study and appreciate the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: GERM-102 or three (3) years of high school study.

Credit, three hours.

### **GERM-202. INTERMEDIATE GERMAN LANGUAGE AND CULTURE II**

**3:3:1**

Students will develop and expand on the more complex competencies acquired in 201 and continue to demonstrate appreciation of the mores, customs, and contributions of the culture. Lab instruction required.

Prerequisites: GERM-201 or four (4) years of high school study.

Credit, three hours.

### **GERM-211. BUSINESS REGISTERS I**

**3:3:0**

Appropriate grammatical structures and linguistic patterns for business secretaries and administrators.

Prerequisites: GERM-102.

Credit, three hours.

### **GERM-212. BUSINESS REGISTERS II**

**3:3:0**

Students will be exposed to situating in business, business enterprises, and international travel, and will be introduced to specialized vocabulary in the language of study appropriate for each situation.

Prerequisites: GERM-211.

Credit, three hours.

### **GERM-222. GERMAN CONVERSATION**

**3:3:0**

Practical use of the language and development of fluency and correctness in speaking.

Prerequisites: GERM-201 or GERM-202.

Credit, three hours.

### **GERM-242. BASIC GERMAN COMPOSITION AND STYLISTICS I**

**3:3:0**

Basic study of syntax with emphasis on vocabulary and sentence building as applied to practical written communications such as letters, personal ads, and book/movie reviews.

Prerequisites: Nine (9) semester hours of German.

Credit, three hours.

**GERM-301. INTERMEDIATE GERMAN COMPOSITION AND STYLISTICS II****3:3:0**

Development of descriptive, narrative, and expository writing with emphasis on grammar and vocabulary relevant to each. Particular attention will be given to the writing of the academic research paper in preparation for the 09-303, and 09-304 literature sequence.

Prerequisites: GERM-202.

Credit, three hours.

**GERM-303. SURVEY OF GERMAN LITERATURE TO 1700****3:3:0**

A study of selected major literary works from the Middle Ages through the 17th century. Class conducted in German.

Prerequisites: GERM-301.

Credit, three hours.

**GERM-304. SURVEY OF GERMAN LITERATURE FROM 1700****3:3:0**

A study of selected works from the 18th to 20th centuries. Class conducted in German.

Prerequisites: GERM-301.

Credit, three hours.

**GERM-305. GERMAN CIVILIZATION****3:3:0**

Systematic study of the origin and development of the German nation and its role in human history from the points of view of geography, history, social, and political institutions, and its culture. Class conducted in German.

Prerequisites: Twelve (12) semester hours of German.

Credit, three hours.

**GERM-311. BUSINESS FL III: BANKING, TOURISM AND THE HOTEL INDUSTRY****3:3:0**

The course is designed to provide opportunities for the student to apply functional language communication skills to situations of banking, tourism, and the hotel industry. Students will be introduced to specialized terminology in the language of study that is appropriate to each situation.

Prerequisites: GERM-202.

Credit, three hours.

**GERM-312. BUSINESS FL IV: BUSINESS COMPOSITION AND CORRESPONDENCES****3:3:0**

The course involves the application of oral and written communication skills to the business environment. Students will be introduced to the various business letter formats, develop skills and competencies in writing composition, and doing critique of articles from journals, newspapers, and business magazines.

Prerequisites: GERM-311.

Credit, three hours.

**GERM-333. GENERAL LINGUISTICS****3:3:0**

An introduction to the many branches of linguistics, second language acquisition, and some of the major issues surrounding it. Class conducted in English. The course may be substituted by taking ENGL-204.

Prerequisites: Twelve (12) semester hours of a Foreign Language.

Credit, three hours.

**GERM-334. ADVANCED GERMAN DICTION AND CONVERSATION****3:3:0**

Practice in aural and oral understanding, pronunciation, and practical use of the language. Class conducted in German.

Prerequisites: Twelve (12) semester hours of German.

Credit, three hours.

**GERM-335. BASIC GERMAN TRANSLATION I****3:3:0**

The course will enable students to understand the appropriate duties of a translator/interpreter. They will learn the basic notions of accurately translating short paragraphs and learn the basic techniques of translation and procedures of language choice. The course is team-taught in English and language of study.

Prerequisites: GERM-202 or GERM-212.

Credit, three hours.

**GERM-399. INDEPENDENT STUDY IN GERMAN I****3:3:0**

For students who hold junior or senior level status and who wish to pursue a special interest topic within the discipline of Foreign Languages under the guidance of a Foreign Language faculty member. Course requirements include but are not limited to regular conferences with the faculty member, reading assignments, and completion of a comprehensive project or a 10-page research paper in the language of study. Students must sign a contract agreeing to the coursework requirements and must obtain signatures of the consenting faculty member and of the Chair of the Department of Foreign Languages.

Prerequisites: Twelve (12) semester hours of German.

Credit, three hours.

**GERM-401. ADVANCED GERMAN COMPOSITION AND STYLISTICS III****3:3:0**

A detailed study of the syntax of the language of study with special emphasis on levels of discourse, vocabulary building, the use of literary devices, and style in creative writing.

Prerequisites: GERM-301.

Credit, three hours.

**GERM-406. HISTORY OF GERMAN LANGUAGES****3:3:0**

The study of the evolution of the German language from its inception to its current state.

Prerequisites: GERM-301.

Credit, three hours.

**GERM-499. INDEPENDENT STUDY IN GERMAN II****3-9:6:0**

For Undergraduate Senior Capstone Experience or Teachers. For students who hold Senior level status and who wish to pursue a special interest topic within the discipline of Foreign Languages under the guidance of a Foreign Language faculty member. Course requirements include but are not limited to regular conferences with the faculty member, reading assignments, and completion of a comprehensive project or a 15-page research paper in the language of study. Students must sign a contract agreeing to the coursework requirements and must obtain signatures of the consenting faculty member and of the Chair of the Department of Foreign Languages. Students will be required to do an oral presentation of their research paper or special project in the language of study. The course may also be taken for graduate credit.

Prerequisites: Twenty-four (24) credit hours, which must include Foreign Language 399 (FREN-399 or GERM-399 or SPAN-399 or SWAH-399), and at least one 400 level course.

Credit, three to nine hours.

**HINDI (HIND) (117)****HIND-101. ELEMENTARY HINDI LANGUAGE AND CULTURE I****3:3:1**

Beginning level of Hindi will enable the student to acquire functional competency in listening, speaking, reading, and writing appropriate to this level. Students will receive a systematic and regular introduction to Hindi life and culture. Lab instruction is required.

Credit, three hours.

**HIND-102. ELEMENTARY HINDI LANGUAGE AND CULTURE II****3:3:1**

This course in Hindi Language and Culture is designed to develop aural, oral, reading, and comprehension. Laboratory is required to enhance listening and speaking proficiencies. Students learn more concepts and grammatical structures not covered in the normal Hindi 101

Prerequisites: HIND-101 or consent of the Department Chair.

Credit, three hours.

**HIND-201. INTERMEDIATE HINDI LANGUAGE AND CULTURE I****3:3:1**

Students will continue to expand on the basic skills acquired in 101 and 102 and acquire more complex skills. They will also continue to study and appreciate the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: HIND-102 or consent of the Department Chair.

Credit, three hours.

**HIND-202. INTERMEDIATE HINDI LANGUAGE AND CULTURE II****3:3:1**

Students will develop and expand on the more complex competencies acquired in 201 and continue to demonstrate appreciation of the mores, customs, and contributions of the culture. Lab instruction required.

Prerequisites: HIND-201 consent of the Department Chair.

Credit, three hours.

**ITALIAN (ITAL) (11)****ITAL-101. ELEMENTARY ITALIAN LANGUAGE AND CULTURE I****3:3:1**

Beginning level of Italian will enable the student to acquire functional competency in listening, speaking, reading, and writing appropriate to this level. Students will receive a systematic and regular introduction to Italian life and culture. Lab instruction is required.

Credit, three hours.

**ITAL-102. ELEMENTARY ITALIAN LANGUAGE AND CULTURE II****3:3:1**

This is an accelerated honors course for beginners, which is designed to develop aural, oral, reading, and comprehension. Laboratory is required to enhance listening and speaking proficiencies. Students learn more concepts and grammatical structures not covered in the normal Italian 101 such as the preterit and the imperfect tenses of the indicative mood as well as the imperative mood. Consequently, this intensive course challenges student to become more active learners of basic Italian.

Prerequisites: ITAL-101 or two (2) years of high school study.

Credit, three hours.

**ITAL-201. INTERMEDIATE ITALIAN LANGUAGE AND CULTURE I****3:3:0**

Students will continue to expand on the basic skills acquired in 101 and 102 and acquire more complex skills. They will also continue to study and appreciate the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: ITAL-102 or three (3) years of high school study.

Credit, three hours.

**ITAL-202. INTERMEDIATE ITALIAN LANGUAGE AND CULTURE II****3:3:1**

Students will develop and expand on the more complex competencies acquired in 201 and continue to demonstrate appreciation of the mores, customs, and contributions of the culture. Lab instruction required.

Prerequisites: ITAL-201 or four (4) years of high school study.

Credit, three hours.

## **JAPANESE (JAPN) (13)**

### **JAPN-101. ELEMENTARY JAPANESE LANGUAGE AND CULTURE I**

**3:3:1**

Beginning level of Japanese will enable the student to acquire functional competency in listening, speaking, reading, and writing appropriate to this level. Students will receive a systematic and regular introduction to Japanese life and culture. Lab instruction is required.

Credit, three hours.

### **JAPN-102. ELEMENTARY JAPANESE LANGUAGE AND CULTURE II**

**3:3:1**

This is an accelerated honors course for beginners, which is designed to develop aural, oral, reading, and comprehension. Laboratory is required to enhance listening and speaking proficiencies. Students learn more concepts and grammatical structures not covered in the normal Japanese 101 such as the preterit and the imperfect tenses of the indicative mood as well as the imperative mood. Consequently, this intensive course challenges student to become more active learners of basic Japanese.

Prerequisites: JAPN-101 or two (2) years of high school study.

Credit, three hours.

### **JAPN-201. INTERMEDIATE JAPANESE LANGUAGE AND CULTURE I**

**3:3:1**

Students will continue to expand on the basic skills acquired in 101 and 102 and acquire more complex skills. They will also continue to study and appreciate the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: JAPN-102 or three (3) years of high school study.

Credit, three hours.

### **JAPN-202. INTERMEDIATE JAPANESE LANGUAGE AND CULTURE II**

**3:3:1**

Students will develop and expand on the more complex competencies acquired in 201 and continue to demonstrate appreciation of the mores, customs, and contributions of the culture. Lab instruction required.

Prerequisites: JAPN-201 or four (4) years of high school study.

Credit, three hours.

## **SPANISH (SPAN) (10)**

### **SPAN-101. ELEMENTARY SPANISH LANGUAGE AND CULTURE I**

**3:3:1**

Beginning level of Spanish will enable the student to acquire functional competency in listening, speaking, reading, and writing appropriate to this level. Students will receive a systematic and regular introduction to Spanish life and culture. Lab instruction is required.

Credit, three hours.

### **SPAN-101H. HONORS ELEMENTARY SPANISH LANGUAGE AND CULTURE I**

**3:3:1**

This is an accelerated honors course for beginners, which is designed to develop aural, oral, reading, and comprehension. Laboratory is required to enhance listening and speaking proficiencies. Students learn more concepts and grammatical structures not covered in the normal 10-101 such as the preterit and the imperfect tenses of the indicative mood as well as the imperative mood. Consequently, this intensive course challenges student to become more active learners of basic Spanish.

Credit, three hours.

### **SPAN-102. ELEMENTARY SPANISH LANGUAGE AND CULTURE II**

**3:3:1**

Students will continue to develop their 101 basic functional competencies and will study the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: SPAN-101 or two (2) years of high school study.

Credit, three hours.



**SPAN-201. INTERMEDIATE SPANISH LANGUAGE AND CULTURE I****3:3:1**

Students will continue to expand on the basic skills acquired in 101 and 102 and acquire more complex skills. They will also continue to study and appreciate the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: SPAN-102 or three (3) years of high school study.

Credit, three hours.

**SPAN-202. INTERMEDIATE SPANISH LANGUAGE AND CULTURE II****3:3:1**

Students will develop and expand on the more complex competencies acquired in 201 and continue to demonstrate appreciation of the mores, customs, and contributions of the culture. Lab instruction required.

Prerequisites: SPAN-201 or four (4) years of high school study.

Credit, three hours.

**SPAN-211. BUSINESS REGISTERS I****3:3:0**

Appropriate grammatical structures and linguistic patterns for business secretaries and administrators.

Prerequisites: SPAN-102.

Credit, three hours.

**SPAN-212. BUSINESS REGISTERS II****3:3:0**

Students will be exposed to situating in business, business enterprises, and international travel, and will be introduced to specialized vocabulary in the language of study appropriate for each situation.

Prerequisites: SPAN-211.

Credit, three hours.

**SPAN-222. SPANISH CONVERSATION****3:3:0**

Practical use of the language leading toward fluency and correctness in speaking. Required of teaching majors.

Prerequisites: SPAN-201 or SPAN-202.

Credit, three hours.

**SPAN-242. BASIC SPANISH COMPOSITION AND STYLISTICS I****3:3:0**

Basic study of syntax with emphasis on vocabulary and sentence building as applied to practical written communications such as letters, personal ads, and book/movie reviews.

Prerequisites: Nine (9) semester hours of Spanish.

Credit, three hours.

**SPAN-301. INTERMEDIATE SPANISH COMPOSITION AND STYLISTICS II****3:3:0**

Development of descriptive, narrative, and expository writing with emphasis on grammar and vocabulary relevant to each. Particular attention will be given to the writing of the academic research paper in preparation for the 10-303 and 10-304 literature sequence.

Prerequisites: SPAN-202.

Credit, three hours.

**SPAN-303. SURVEY OF SPANISH LITERATURE TO 1700****3:3:0**

A study of selected major literary works from the Middle Ages through the Siglo de Oro. Class conducted in Spanish.

Prerequisites: SPAN-301.

Credit, three hours.

**SPAN-304. SURVEY OF SPANISH LITERATURE FROM 1700****3:3:0**

A study of selected works from the 18th to 20th centuries. Class conducted in Spanish.

Prerequisites: SPAN-301.

Credit, three hours.

**SPAN-305. SPANISH CIVILIZATION****3:3:0**

Systematic study of the origin and development of the Spanish nation and its role in human history from the points of view of geography, history, social, and political institutions, and its culture. Class conducted in Spanish.

Prerequisites: Twelve (12) semester hours of Spanish.

Credit, three hours.

**SPAN-306. LATIN AMERICAN CIVILIZATION****3:3:0**

Systematic study of the origin and development of Latin American and its role in human history from the points of view of geography, history, social, and political institutions and its culture. Class conducted in Spanish.

Prerequisites: Twelve (12) semester hours of Spanish.

Credit, three hours.

**SPAN-307. LATIN AMERICAN LITERATURE****3:3:0**

Area view of poetry, drama, and novel from 1850 through the contemporary period, including discussions of the modernist movement and Ruben Dario. Class conducted in Spanish.

Prerequisites: SPAN-303, SPAN-304.

Credit, three hours.

**SPAN-308. SPANISH LITERATURE OF THE GOLDEN AGE****3:3:0**

A study of some of the representative authors of the 16th and 17th centuries. Lectures, reading, and individual reports. Class conducted in Spanish.

Prerequisites: SPAN-303.

Credit, three hours.

**SPAN-311. BUSINESS FL III: BANKING, TOURISM, AND HOTEL INDUSTRY****3:3:0**

The course is designed to provide opportunities for the student to apply functional language communication skills to situations of banking, tourism, and hotel industry. Students will be introduced to specialized terminology in the language of study that is appropriate to each situation.

Prerequisites: SPAN-211.

Credit, three hours.

**SPAN-312. BUSINESS FL IV: BUSINESS COMPOSITION AND CORRESPONDENCES****3:3:0**

The course involves the application of oral and written communication skills to the business environment. Students will be introduced to the various business letter formats; develop skills and competencies in writing composition, and doing critique of articles from journals, newspapers, and business magazines.

Prerequisites: SPAN-311.

Credit, three hours.

**SPAN-333. GENERAL LINGUISTICS****3:3:0**

An introduction to the many branches of linguistics, second language acquisition, and some of the major issues surrounding it. Class conducted in English.

Prerequisites: Twelve (12) semester hours of a Foreign Language.

Credit, three hours.

**SPAN-334. ADVANCED SPANISH DICTION AND CONVERSATION****3:3:0**

Practice in aural and oral understanding, pronunciation, and practical use of the language. Class conducted in Spanish.

Prerequisites: Twelve (12) semester hours of Spanish.

Credit, three hours.

**SPAN-335. BASIC SPANISH TRANSLATION I****3:3:0**

The course will enable students to understand the appropriate duties of a translator/interpreter. They will learn the basic notions of accurately translating short paragraphs and learn the basic techniques of translation and procedures of language choice. The course is team-taught in English and the language of study.

Prerequisites: SPAN-202 or SPAN-212.

Credit, three hours.

**SPAN-336. BASIC SPANISH TRANSLATION II****3:3:0**

The course is designed to provide the student with more advanced situations requiring translation. Selected texts and registers will be compiled from diverse themes. Proper word order in translation will be emphasized. The course is team-taught in English and language of study.

Prerequisites: SPAN-335.

Credit, three hours.

**SPAN-399. INDEPENDENT STUDY IN SPANISH I****3:3:0**

For students who hold junior or senior level status and who wish to pursue a special interest topic within the discipline of Foreign Languages under the guidance of a Foreign Language faculty member. Course requirements include but are not limited to regular conferences with the faculty member, reading assignments, and completion of a comprehensive project or a 10-page research paper in the language of study. Students must sign a contract agreeing to the coursework requirements and must obtain signatures of the consenting faculty member and of the Chair of the Department of Foreign Languages.

Prerequisites: Twelve (12) semester hours of Spanish.

Credit, three hours.

**SPAN-401. ADVANCED SPANISH COMPOSITION AND STYLISTICS III****3:3:0**

A detailed study of the syntax of the language of study with special emphasis on levels of discourse, vocabulary building, the use of literary devices, and style in creative writing.

Prerequisites: SPAN-301.

Credit, three hours.

**SPAN-406. HISTORY OF SPANISH LANGUAGE****3:3:0**

The study of the evolution of the Spanish language from its inception to its current state.

Prerequisites: SPAN-301.

Credit, three hours.

**SPAN-499. INDEPENDENT STUDY IN SPANISH II (SENIOR CAPSTONE EXPERIENCE)****3-9:6:0**

For students who hold Senior level status and who wish to pursue a special interest topic within the discipline of Foreign Languages under the guidance of a Foreign Language faculty member. Course requirements include but are not limited to regular conferences with the faculty member, reading assignments, and completion of a comprehensive project or a 15-page research paper. Students must sign a contract agreeing to the coursework requirements and must obtain signatures of the consenting faculty member and of the Chair of the Department of Foreign Languages. Students will be required to do an oral presentation of their research paper or special project.

Prerequisites: Twenty-four (24) credit hours, which must include Foreign Language 399 (FREN-399 or GERM-399 or SPAN-399 or SWAH-399), and at least one 400 level course.

Credit, three or nine hours.

**SWAHILI (SWAH) (19)****SWAH-101. ELEMENTARY SWAHILI LANGUAGE AND CULTURE I****3:3:1**

Beginning level of Swahili will enable the student to acquire functional competency in listening, speaking, reading, and writing appropriate to this level. Students will receive a systematic and regular introduction to Swahili life and culture. Lab instruction is required.

Credit, three hours.

**SWAH-102. ELEMENTARY SWAHILI LANGUAGE AND CULTURE II****3:3:1**

Students will continue to develop their 101 basic functional competencies and will study the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: SWAH-101 or two (2) years of high school study.

Credit, three hours.

**SWAH-201. INTERMEDIATE SWAHILI LANGUAGE AND CULTURE I****3:3:1**

Students will continue to expand on the basic skills acquired in 101 and 102 and acquire more complex skills. They will also continue to study and appreciate the customs, mores, and contributions of the culture. Lab instruction required.

Prerequisites: SWAH-102 or three (3) years of high school study.

Credit, three hours.

**SWAH-202. INTERMEDIATE SWAHILI LANGUAGE AND CULTURE II****3:3:1**

Students will develop and expand on the more complex competencies acquired in 201 and continue to demonstrate appreciation of the mores, customs, and contributions of the culture. Lab instruction required.

Prerequisites: SWAH-201 or four (4) years of high school study.

Credit, three hours.

**SWAH-211. BUSINESS REGISTERS I****3:3:0**

Appropriate grammatical structures and linguistic patterns for business secretaries and administrators.

Prerequisites: SWAH-102.

Credit, three hours.

**SWAH-212. BUSINESS REGISTERS II****3:3:0**

Students will be exposed to situating in business, business enterprises, and international travel, and will be introduced to specialized vocabulary in the language of study appropriate for each situation.

Prerequisites: SWAH-211.

Credit, three hours.

**SWAH-222. SWAHILI CONVERSATION****3:3:0**

Practical use of the language toward fluency and correctness in speaking. Required of all teaching majors.

Prerequisites: SWAH-201 or SWAH-202.

Credit, three hours.

**SWAH-242. BASIC SWAHILI COMPOSITION AND STYLISTICS I****3:3:0**

Basic study of syntax with emphasis on vocabulary and sentence building as applied to practical written communications such as letters, personal ads, and book/movie reviews.

Prerequisites: Nine (9) semester hours of Swahili.

Credit, three hours.

**SWAH-301. INTERMEDIATE SWAHILI COMPOSITION AND STYLISTICS II****3:3:0**

Development of descriptive, narrative, and expository writing with emphasis on grammar and vocabulary relevant to each. Particular attention will be given to the writing of the academic research paper in preparation for the 19-303 and 19-304 literature sequence.

Prerequisites: SWAH-202.

Credit, three hours.

**SWAH-303. SURVEY OF SWAHILI LITERATURE I****3:3:0**

A study of selected major literary works from Pre-Colonial through Independence. Class conducted in Swahili.

Prerequisites: SWAH-301.

Credit, three hours.

**SWAH-304. SURVEY OF SWAHILI LITERATURE II****3:3:0**

A study of selected works from Independence through the 21st century. Class conducted in Swahili.

Prerequisites: SWAH-301.

Credit, three hours.

**SWAH-311. BUSINESS FL III: BANKING, TOURISM AND THE HOTEL INDUSTRY****3:3:0**

The course is designed to provide opportunities for the student to apply functional language communication skills to situations of banking, tourism, and the hotel industry. Students will be introduced to specialized terminology in the language of study that is appropriate to each situation.

Prerequisites: SWAH-202.

Credit, three hours.

**SWAH-312. BUSINESS FL IV: BUSINESS COMPOSITION AND CORRESPONDENCES****3:3:0**

The course involves the application of oral and written communication skills to the business environment. Students will be introduced to the various business letter formats; develop skills and competencies in writing composition, and doing critique of articles from journals, newspapers, and business magazines.

Prerequisites: SWAH-311.

Credit, three hours.

**SWAH-333. GENERAL LINGUISTICS****3:3:0**

An introduction to the many branches of linguistics, second language acquisition, and some of the major issues surrounding it. Class conducted in English. The course may be substituted by taking English 204.

Prerequisites: Twelve (12) semester hours of a Foreign Language.

Credit, three hours.

**SWAH-334. ADVANCED SWAHILI DICTION AND CONVERSATION****3:3:0**

Practice in aural and oral understanding, pronunciation, and practical use of the language. Class conducted in Swahili.

Prerequisites: Twelve (12) semester hours of Swahili.

Credit, three hours.

**SWAH-335. BASIC SWAHILI TRANSLATION I****3:3:0**

The course will enable students to understand the appropriate duties of a translator/interpreter. They will learn the basic notions of accurately translating short paragraphs and learn the basic techniques of translation and procedures of language choice. The course is team-taught in English and language of study.

Prerequisites: SWAH-202 or SWAH-212.

Credit, three hours.

**SWAH-336. BASIC SWAHILI TRANSLATION II****3:3:0**

The course is designed to provide the student with more advanced situations requiring translation. Selected texts and registers will be compiled from diverse themes. Proper word order in translation will be emphasized. The course is team-taught in English and language of study.

Prerequisites: SWAH-202 or SWAH-212, SWAH-335.

Credit, three hours.

**SWAH-399. INDEPENDENT STUDY IN SWAHILI I****3:3:0**

For students who hold junior or senior level status and who wish to pursue a special interest topic within the discipline of Foreign Languages under the guidance of a Foreign Language faculty member. Course requirements include but are not limited to regular conferences with the faculty member, reading assignments, and completion of a comprehensive project or a 10-page research paper in the language of Study. Students must sign a contract agreeing to the coursework requirements and must obtain signatures of the consenting faculty member and of the Chair of the Department of Foreign Languages.

Prerequisites: Twelve (12) semester hours of Swahili.

Credit, three hours.

**SWAH-442. ADVANCED SWAHILI COMPOSITION AND STYLISTICS III****3:3:0**

A detailed study of the syntax of the language of study with special emphasis on levels of discourse, vocabulary building, the use of literary devices, and style in creative writing.

Prerequisites: SWAH-301.

Credit, three hours.

**SWAH-499. INDEPENDENT STUDY IN SWAHILI II (SENIOR CAPSTONE)****3-9:6:0**

For students who hold Senior level status and who wish to pursue a special interest topic within the discipline of Foreign Languages under the guidance of a Foreign Language faculty member. Course requirements include but are not limited to regular conferences with the faculty member, reading assignments, and completion of a comprehensive project or a 15-page research paper in the language of study. Students must sign a contract agreeing to the coursework requirements and must obtain signatures of the consenting faculty member and of the Chair of the Department of Foreign Languages. Students will be required to do an oral presentation of their research paper or special project in the language of study. The course may also be taken for graduate credit.

Prerequisites: Twenty-four (24) credit hours, which must include Foreign Language 399 (FREN-399 or GERM-399 or SPAN-399 or SWAH-399), and at least one 400 level course.

Credit, three to nine hours.

## **DEPARTMENT OF HISTORY, POLITICAL SCIENCE AND PHILOSOPHY**

**Professors:** Hoff, Osei (Chair) Newton

**Associate Professors:** Cawley, Cheng, Taylor, Toure', Udezulu, West

**Assistant Professors:** Issa, Robinson, West

The objective of the Department of History, Political Science and Philosophy is to provide a thorough and dynamic liberal arts education with a multicultural perspective. The majors and subject areas offered by the department are structured to prepare graduates for further education or for careers in pertinent fields. Students selecting a major in the department are expected to gain knowledge appropriate to their subject area and to demonstrate what has been learned through courses, internships, and extracurricular activities. Since the process of learning is ongoing, graduates of the department are expected to stay in touch with faculty and to offer insights and advice to current students when possible.

The department faculty is a collection of outstanding scholars and dedicated teachers engaged in active research in a variety of areas. Its research and publication record is second to none on the DSU campus. It has won the annual Faculty Excellence Awards in research, teaching and service a number of times. Students have the opportunity to work closely with these professors, especially during their Senior Capstone experience. The faculty pledges to collectively do their best in the areas of teaching, research, and service so as to ensure that students will derive maximum benefits from their matriculation.

### **HISTORY MAJOR**

There are two History curricula: a straight History and a History with a Social Studies Concentration. A student who chooses History as a major must complete the requirements of either one of these curricula, and must satisfy the General Education Requirements prescribed by the University. A total of thirty-six (36) hours of history are required. A student must complete History 101, 102, 201 and 202, or 101, 102, 203 and 204. All majors must also take History 205, 290, 446 and 475. The remaining twelve hours must be at the 300-400 level in either of two areas: American and World. History majors must also have six hours of Social Science electives (to be met with 300-400 level course in Economics and other business courses, Mass Communications, Political Science, Sociology and Criminal Justice, Psychology, Education, and other social sciences.), and six hours of Arts and Humanities electives (300-400) level course in Art, Art History, Philosophy, English and Foreign Languages, and other humanities courses). All history majors must earn a C or better in all history courses, General Education core courses, and other required courses as designated on the curriculum sheet.

**PREREQUISITES:** Prerequisites are noted in the course descriptions.

### **POLITICAL SCIENCE MAJOR**

To graduate with a major in political science a student must satisfy the General Education Requirements prescribed by the University and complete thirty-six (36) hours course work in political science at a grade of C or better. These include the following required courses: PS 103 (Introduction to Political Science); PS 200 (American National Government); PS 210 (Contemporary Political Ideologies); PS 220 (Comparative Government); PS 230 (International Politics). PS 214 (Research Methods, or its equivalent as approved by the Chair), and PS 475 (Senior Capstone). In addition, students must take and pass with a C or better 18 hours of political science elective courses at the 300-400 level. Majors must also take and pass the following required courses with a grade of C or better: Economics 201 (Macroeconomics); Economics 202 (Microeconomics); Philosophy 101 (Critical Thinking) and another three hours of Philosophy electives. Although not required for a major in political science, students who intend to pursue an MA, MPA, or Ph.D. are strongly encouraged to take Elementary Statistics, Advanced Statistics,

and other research-related courses. With the approval of the political science advisor and/or the department chair, students may substitute up to nine hours of PS 330 (Field Work) and/or PS 470 (Internship) for an equivalent amount of credit in the requirement of 18 hours.

### **MINORS**

**HISTORY MINOR:** For a minor in history, students must pass with a C or better twenty-one (21) semester hours as follows: History 101, 102, 290 and twelve additional hours of which nine hours must be at or above the 300 level. At least 3 hours each in World and American history must be included.

### **POLITICAL SCIENCE MINOR**

A minor in political science requires twenty-one (21) hours of political science course work with a grade of C or better in each course. This is distributed as follows: PS 103 (Introduction to Political Science); PS 200 (American National Government); PS 210 (Contemporary Political Ideologies); PS 220 (Comparative Government); PS 230 (International Politics); and six additional hours at the 300 and 400 levels.

### **PHILOSOPHY MINOR**

For a minor in philosophy, a student must pass with a C or better fifteen hours of philosophy courses distributed as follows: Philosophy 201, 206, either 300 or 302 and any two electives in philosophy. Students interested in a minor in philosophy may obtain further information from the department office, and also from the philosophy faculty.



## CURRICULUM IN HISTORY

### *First Year*

#### **First Semester**

ENGL-101	English Comp. I	3
<b>xx-xxx</b>	<b>Science</b>	<b>4</b>
<b>MTSC-xxx</b>	<b>Mathematics</b>	<b>3</b>
HIST-101	World Hist. To 16 <sup>th</sup> Cent.	3
HIST-191	University Seminar I	1
MVSC-100	Fitness and Wellness	<u>2</u>
		<b>16</b>

#### **Second Semester**

ENGL-102	English Comp. II	3
<b>xx-xxx</b>	<b>Science</b>	<b>3</b>
<b>MTSC-xxx</b>	<b>Mathematics</b>	<b>3</b>
HIST-102	World Hist. Fr. 16 <sup>th</sup>	3
HIST-192	University Seminar II	1
PLSC-200	American National Govt.	<u>3</u>
		<b>16</b>

### *Second Year*

<b>ENGL-201</b>	<b>World Lit. OR</b>	
<b>ENGL-205</b>	<b>African Am. Lit.</b>	<b>3</b>
<b>xx-xxx</b>	<b>Foreign Language I</b>	<b>3</b>
HIST-201	Am. History OR	
HIST-203	African American Hist to 1865	3
PHIL-101	Critical Thinking	<u>3</u>
		<b>12</b>

<b>ENGL-202</b>	<b>World Lit II OR</b>	
<b>ENGL-206</b>	<b>African Am. Lit II</b>	<b>3</b>
<b>xx-xxx</b>	<b>Foreign Language II</b>	<b>3</b>
HIST-202	Am. History OR	
HIST-204	African-Amer. Hist From 1865	3
HIST-290	Intro Historical Methods	3
<b>ENGL-200</b>	<b>Speech</b>	<b>3</b>
		<b>15</b>

### *Third Year*

HIST-205	Themes in World History	3
HIST-xxx	History Concentration (300-400)	3
HIST-xxx	History Concentration (300-400)	3
<b>xx-xxx</b>	<b>Arts/Humanities Elective</b>	<b>3</b>
GEOG-101	Human Geography <b>OR</b>	
GEOG-201	WORLD REGIONAL GEOGRAPHY	<u>3</u>
		<b>15</b>

HIST-446	Research Methods	3
HIST-xxx	History Concentration (300-400)	3
GLST-395	Global Societies	3
HIST-xxx	History Concentration (300-400)	3
<b>xx-xxx</b>	<b>Open Elective</b>	<u>3</u>
		<b>15</b>

### *Fourth Year*

<b>xx-xxx</b>	<b>Arts/Humanities Elect (300-400)</b>	<b>3</b>
<b>xx-xxx</b>	<b>Open Elective</b>	<b>3</b>
<b>xx-xxx</b>	<b>Social Science Elective (300-400)</b>	<b>3</b>
<b>xx-xxx</b>	<b>Open Elective</b>	<b>3</b>
HIST-475	Senior Capstone	3
<b>xx-xxx</b>	<b>Open Elective</b>	<u>3</u>
		<b>18</b>

<b>xx-xxx</b>	<b>Open Elective</b>	<b>3</b>
<b>xx-xxx</b>	<b>Soc. Science Elective (300-400)</b>	<b>3</b>
<b>xx-xxx</b>	<b>Arts/Humanities Elective (300-400)</b>	<b>3</b>
<b>xx-xxx</b>	<b>Open Elective</b>	<b>3</b>
<b>xx-xxx</b>	<b>Open Elective</b>	<u>3</u>
		<b>15</b>

\*Students must earn a C or better in all courses shown in bold. **Social Science** electives may be met with 300-400 level courses in Economics, Sociology, Psychology, Political Science, Mass Comm., Education, and other Social Sciences. **Art/Humanities** upper-level electives may be met with 300-400 level courses in Art, Art History, Philosophy, English, Foreign Languages and other Humanities courses.

## CURRICULUM IN HISTORY

### Social Studies Concentration

#### *First Year*

##### First Semester

ENGL-101	English Comp. I	3
<b>xx-xxx</b>	<b>Science</b>	<b>4</b>
<b>MTSC-xxx</b>	<b>Mathematics</b>	<b>3</b>
HIST-101	World Hist. To 16 <sup>th</sup> Cent.	3
HIST-191	University Seminar I	1
MVSC-100	Fitness and Wellness	<u>2</u>
		<b>15</b>

##### Second Semester

ENGL-102	English Comp. II	3
<b>xx-xxx</b>	<b>Science</b>	<b>3</b>
<b>MTSC-xxx</b>	<b>Mathematics</b>	<b>3</b>
HIST-102	World Hist. Fr. 16 <sup>th</sup>	3
HIST-192	University Seminar II	1
<b>PLSC-200</b>	<b>American National Govt.</b>	<u>3</u>
		<b>16</b>

#### *Second Year*

<b>ENGL-201</b>	<b>World Lit. OR</b>	
<b>ENGL-205</b>	<b>African Am. Lit.</b>	<b>3</b>
<b>xx-xxx</b>	<b>Foreign Language I</b>	<b>3</b>
HIST-201	Am. History OR	
HIST-203	African American Hist to 1865	3
ENGL-200	Speech	3
GEOG-101	Human Geography	3
PHIL-101	Critical Thinking	<u>3</u>
		<b>18</b>

<b>ENGL-202</b>	<b>World Lit II OR</b>	
<b>ENGL-206</b>	<b>African Am. Lit II</b>	<b>3</b>
<b>xx-xxx</b>	<b>Foreign Language II</b>	<b>3</b>
HIST-202	Am. History. OR	
HIST-204	African-Amer. History from 1865	3
HIST-290	Intro Historical Methods	3
GEOG-201	World Regional Geography	<u>3</u>
		<b>15</b>

#### *Third Year*

HIST-205	Themes in World History	3
HIST-xxx	History Concent (300-400)	3
HIST-xxx	History Concent (300-400)	3
<b>xx-xxx</b>	<b>Arts/Humanities Elective</b>	<b>3</b>
<b>xx-xxx</b>	<b>Open Elective</b>	<u>3</u>
		<b>15</b>

HIST-446	Research Methods	3
HIST-xxx	History Concentration (300-400)	3
GLST-395	Global Societies	3
HIST-xxx	History Concentration (300-400)	3
<b>xx-xxx</b>	<b>Open Elective</b>	<u>3</u>
		<b>15</b>

#### *Fourth Year*

HIST-300	History of Delaware	3
<b>xx-xxx</b>	<b>Arts/Humanities Elective (300-400)</b>	<b>3</b>
PSYC-316	Developmental Psych	3
<b>xx-xxx</b>	<b>Open Elective</b>	<b>3</b>
HIST-475	Senior Capstone	<u>3</u>
		<b>15</b>

<b>xx-xxx</b>	<b>Arts/Humanities Elective (300-400)</b>	<b>3</b>
ECON-201	Macroeconomics	3
ECON-202	Microeconomics	3
<b>xx-xxx</b>	<b>Open Elective</b>	<u>3</u>
		<b>12</b>

\*Students must earn a C or better in all courses shown in bold. **Art/Humanities upper-level electives may be met with 300-400 level courses in Art, Art History, Philosophy, English, Foreign Languages and other Humanities courses.**

## CURRICULUM IN POLITICAL SCIENCE

### *First Year*

#### **First Semester**

ENGL-101	English Comp. I.	<b>3</b>
<b>xx-xxx</b>	<b>Science</b>	<b>4</b>
<b>MTSC-xxx</b>	<b>Mathematics</b>	<b>3</b>
HIST-191	University Seminar I	<b>1</b>
MVSC-100	Fitness and Wellness	<b>2</b>
PLSC-103	Intro. To Political Science	<u><b>3</b></u>
		<b>16</b>

#### **Second Semester**

ENGL-102	English Comp. II	<b>3</b>
<b>xx-xxx</b>	<b>Science</b>	<b>3</b>
<b>MTSC-xxx</b>	<b>Mathematics</b>	<b>3</b>
HIST-101	World Hist. To 16 <sup>th</sup> <b>OR</b>	
HIST-102	World Hist. Fr. 16 <sup>th</sup>	<b>3</b>
HIST-192	University Seminar II	<b>1</b>
HIST-200	Amer. National Gov.	<u><b>3</b></u>
		<b>16</b>

### *Second Year*

<b>ENGL-201</b>	<b>World Lit. I OR</b>	
<b>ENGL-205</b>	<b>African Am. Lit. I</b>	<b>3</b>
PLSC-220	Comparative Gov.	<b>3</b>
HIST-201	American Hist. to 1865 OR	
HIST-203	African-Am. Exp to 1865	<b>3</b>
ENGL-200	Speech	<b>3</b>
<b>xx-xxx</b>	<b>Foreign Language I</b>	<b>3</b>
GEOG-101	Human Geography OR	
GEOG-201	World Regional Geography	<u><b>3</b></u>
		<b>18</b>

<b>ENGL-202</b>	<b>World Lit II OR</b>	
<b>ENGL-206</b>	<b>African Am. Lit II</b>	<b>3</b>
PLSC-230	International Politics	<b>3</b>
HIST-202	American Hist. From 1865 (OR)	
HIST-204	African-Am. Exp. From 1865	<b>3</b>
PHIL-101	Critical Thinking	<b>3</b>
<b>xx-xxx</b>	<b>Foreign Language II</b>	<b>3</b>
PLSC-214	Research Methods	<u><b>3</b></u>
		<b>18</b>

### *Third Year*

PLSC-210	Contemp. Pol. Ideologies	<b>3</b>
PLSC-xxx	PSE	<b>3</b>
PHIL-xxx	Philosophy Elective	<b>3</b>
ECON-201	Macroeconomics	<b>3</b>
GLST-395	Global Societies	<u><b>3</b></u>
		<b>15</b>

<b>xx-xxx</b>	<b>Arts/ Humanities Elective</b>	<b>3</b>
PLSC-xxx	PSE	<b>3</b>
PLSC-xxx	PSE	<b>3</b>
PLSC-xxx	PSE	<b>3</b>
ECON-202	Microeconomics	<u><b>3</b></u>
		<b>15</b>

### *Fourth Year*

PLSC-xxx	PSE	<b>3</b>
PLSC-475	Senior Capstone	<b>3</b>
<b>xx-xxx</b>	<b>Open Elective</b>	<b>3</b>
<b>xx-xxx</b>	<b>Open Elective</b>	<u><b>3</b></u>
		<b>12</b>

PLSC-xxx	PSE	<b>3</b>
<b>xx-xxx</b>	<b>Open Elective</b>	<b>3</b>
<b>xx-xxx</b>	<b>Open Elective</b>	<b>3</b>
<b>xx-xxx</b>	<b>Open Elective</b>	<u><b>3</b></u>
		<b>12</b>

Students must earn a C or better in all courses shown in bold.

*TOTAL CREDIT HOURS:* 122

## **HISTORY (HIST) (34)**

### ***SURVEY COURSES***

**HIST-101. WORLD HISTORY TO THE SIXTEENTH CENTURY. 3:3:0**

A survey of cultures from ancient times to the 16th century. Credit, three hours.

**HIST-102. WORLD HISTORY FROM THE SIXTEENTH CENTURY. 3:3:0**

A survey of the cultures of the modern world from the 16th century to the present. The major emphasis of the course is on the trends and developments of the 20th century. Credit, three hours.

**HIST-201. AMERICAN HISTORY TO 1865. 3:3:0**

A course that covers the period from 1492 to the close of the Civil War. Cultural and economic developments are given emphasis. Credit, three hours.

**HIST-202. AMERICAN HISTORY FROM 1865. 3:3:0**

This course concentrates on the United States from 1865 to the present with emphasis on the trends and developments of the 20th century. Credit, three hours.

**HIST-203. AFRICAN AMERICAN HISTORY TO 1865. 3:3:0**

An historical and analytical study of African Americans from the colonial era to the end of the Civil War. It includes the study of the cultural heritage of African Americans, their contributions to the building of America, including the economic and political institutions, and the role of African Americans in the expansion of American freedom, liberty, and democracy. Credit, three hours.

**HIST-204. AFRICAN AMERICAN HISTORY FROM 1865. 3:3:0**

A study of African American life from Reconstruction to the present. It focuses on the challenges of achieving racial justice and equality in the face of adversity. This course looks at protest movements leading to institutional reform, African American contributions to the creation of a modern urban culture, overall American economic prosperity, and global power and leadership. Credit, three hours.

**HIST-205. THEMES IN WORLD HISTORY 3:3:0**

**The content of the course is transnational, global, and multidisciplinary. For example, students will compare labor systems in different times and nations, explore long distance trade routes, trace spread of diseases, religions, technologies and/or ideologies.**

**HIST-290. INTRODUCTION TO HISTORICAL METHODS 3:3:0**

This course is designed to introduce history majors, and others, to history as a social science discipline. The major emphasis of the course is on research methods, historical analysis, historical interpretation, historiography, and writing formal research papers.

### ***AMERICAN HISTORY AREA***

**HIST-300. HISTORY OF DELAWARE. 3:3:0**

The development of Delaware from colonial times to the present, the land, the people, the culture, the institutions. Resources of the state will be used and special projects will enable the students to play a part in preserving the rich heritage of the state. Credit, three hours.

**HIST-312. AMERICAN MILITARY HISTORY. 3:3:0**

This course examines the history of American military forces from the Revolution against Britain through the present. The causes of war, as well as its prevention, are emphasized. Credit, three hours.

**HIST-323. COLONIAL AMERICA, 1492-1763. 3:3:0**

This course will cover Native American history before European contact with a focus on North America. It will investigate the cultural, political, economic institutions of the Native Americans. It will study the exploration and settlement of the New World by the Europeans, especially the English colonies in North America, and the development of colonial society. Credit, three hours.

**HIST-324. REVOLUTIONARY AMERICA AND THE EARLY REPUBLIC, 1763-1814. 3:3:0**

A study of the American Revolution, the framing of the Constitution, and the formation of the early republic through the second war for independence, the War of 1812. Credit, three hours.

**HIST-325. NATIONAL PERIOD, 1815-1877. 3:3:0**

The study of the development of the new American nation, its westward expansion, cultural, political, and economic patterns, sectionalism leading to the Civil War, and the effect of that conflict on American life during Reconstruction. Credit, three hours

**HIST-326. THE GILDED AGE, 1877-1896. 3:3:0**

A study of the battle for the West, the development of a nationwide industrial and commercial system, growth of urban life, major cultural developments produced by social and intellectual revolutions, the New South and Jim Crow, and workers' and farmers' protest movements. Credit, three hours.

**HIST-327. THE PROGRESSIVE AND MODERN ERA, 1896-1945. 3:3:0**

This course focuses on the end of isolationism beginning in the 1890s through the emergence as a global power in 1945 studying the Spanish-American, the Philippines War, World War I, and World War II. It covers progressive reform movements focusing on business regulation, urban, state, and national political reform, social work, and rural reform. Beginning with the 1920s, it will study the emergence of modern American and the second industrial revolution producing economic and cultural change through the challenges of the Great Depression. Credit, three hours.

**HIST-328. AMERICA FROM 1945 TO THE PRESENT. 3:3:0**

A study of the changes in American life since 1945, new global perspectives, and the problems of contemporary life in America. Credit, three hours.

**HIST-333. AFRICAN AMERICANS IN COLONIAL AND REVOLUTIONARY AMERICA. 3:3:0**

This course covers African American history from the first arrival of Africans at Jamestown in 1619. It looks at the development of an African American culture, the contribution of African Americans to the building of America, and their role in the American Revolution. It ends with the adoption of the United States Constitution. Credit, three hours.

**HIST-334. AFRICAN AMERICANS AND THE BUILDING OF A NATION, 1789-1865. 3:3:0**

An upper division course which covers a study of African Americans and their contribution to the establishment of a republic in America, westward expansion, defense of the country, and the establishment of freedom for millions during the Civil War. Credit, three hours.

**HIST-335. AFRICAN AMERICANS FROM RECONSTRUCTION THROUGH WORLD WAR I. 3:3:0**

A study of African Americans' struggle to achieve racial justice and equality during the Reconstruction Era and the challenge to their freedom during the Jim Crow Era. This course also covers African Americans and the settlement of the West, the farming the South, and the industrialization of the North. It also investigates their role in the wars fought by the United States covering federal military occupation in the South, the Plains Native American Wars, the Spanish American War, the Philippines War, and World War I. Credit, three hours.

**HIST-336. AFRICAN AMERICANS AND MODERN AMERICA, 1919 TO THE PRESENT. 3:3:0**

This covers the contributions of African Americans to the establishment of an urban-based, modern culture in the United States beginning with the Harlem Renaissance in the 1920s. It will cover the challenges of surviving the devastation of the Great Depression, fighting Jim Crow and the fascists in World War II, and the struggle for Civil Rights during the Cold War Era. It will end with the contemporary America in the Post Modern and Post Cold War World taking a global perspective. Credit, three hours.

**HIST-420. AFRICAN AMERICAN HISTORY FROM THE COLONIAL ERA THROUGH 1877: SELECTED TOPICS. 3:3:0**

This is an advanced level course, which focuses on a selected topic in African American history from colonial times through the end of Reconstruction. Credit, three hours.

**HIST-421. AFRICAN AMERICAN HISTORY, 1877 TO THE PRESENT: SELECTED TOPICS. 3:3:0**

This is an advanced level course, which focuses on selected topics in African American history from the end of Reconstruction to present. Credit, three hours.

**HIST-433. COLONIAL HISTORY (1492-1763): SELECTED TOPICS. 3:3:0**

This is an advanced level course, which focuses on selected topics in American colonial history from 1492 to 1763. Credit, three hours.

**HIST-434. REVOLUTIONARY AMERICA (1763-1790): SELECTED TOPICS. 3:3:0**

This is an advanced-level course, which focuses on selected topics in the American Revolutionary Era to the ratification of the Constitution. Credit, three hours.

**HIST-435. THE EARLY REPUBLIC (1790-1815): SELECTED TOPICS 3:3:0**

This is an advanced-level course, which focuses on selected topics in the history of the early republic years through the end of the War of 1812. Credit, three hours.

**HIST-436. THE NATIONAL PERIOD (1815-1860). 3:3:0**

This is an advanced-level course, which focuses on selected topics in the history of the National Period from the end of the War of 1812 through the beginning of the Civil War Era. Credit, three hours.

**HIST-437. THE AMERICAN CIVIL WAR AND RECONSTRUCTION (1860-1877): SELECTED TOPICS. 3:3:0**

This is an advanced-level course, which focuses on selected topics in the history of the Civil War ERA through Reconstruction. Credit, three hours.

**HIST-438. THE GILDED AGE (1877-1896): SELECTED TOPICS. 3:3:0**

This is an advanced-level course, which focuses on selected topics in the history of the Gilded Age, 1877-1896. Credit, three hours.

**HIST-439. THE PROGRESSIVE ERA (1896-1919): SELECTED TOPICS. 3:3:0**

This is an advanced-level course, which focuses on selected topics in the history of the Progressive Era, 1896-1919. Credit, three hours.

**HIST-440. THE EARLY MODERN ERA (1920-1941). 3:3:0**

This is an advanced level course, which focuses on selected topics in the history of the early modern era, 1920-1941. Credit, three hours.

**HIST-441. THE WORLD WAR II ERA THROUGH THE KOREAN WAR (1941-1952): SELECTED TOPICS. 3:3:0**

This is an advanced level course, which focuses on selected topics in the history of World War II and the beginning of the Cold War through the Korean War. Credit, three hours.

**HIST-442. MODERN AMERICAN HISTORY (1953-1975): SELECTED TOPICS. 3:3:0**

This is an advanced-level course, which focuses on selected topics in American History from 1953 through 1975 covering cultural history and the Vietnam War. Credit, three hours.

**HIST-443. CONTEMPORARY AMERICAN (1975 TO THE PRESENT): SELECTED TOPICS. 3:3:0**

This is an advanced level course, which focuses on selected topics in contemporary American history from 1975. Credit, three hours.

**HIST-461. SEMINAR IN AMERICAN HISTORY. 3:3:0**

This seminar examines special topics on all aspects of the history of the United States. The specific topic to be covered will be stated in that semester's course listings.

Prerequisites: History 201, 202, 203, or 204 depending on the topic

Credit, three hours.

***WORLD HISTORY AREA***

**HIST-301. ENGLAND TO 1688. 3:3:0**

The founding has the English national state and the political, cultural, and economic development of early modern England and the Commonwealth. Credit, three hours.

**HIST-302. ENGLAND AND THE BRITISH COMMONWEALTH FROM 1688. 3:3:0**

Political, economic, and cultural growth of modern England and the Commonwealth.

**HIST-313. LATIN AMERICA TO 1824. 3:3:0**

The history of Latin American from pre-Colombian times through the wars of independence. Credit, three hours.

**HIST-314. LATIN AMERICA SINCE 1824. 3:3:0**

The history of Latin America since independence, with special emphasis on conditions today, including the relations of Latin America with the United States and the rest of the world. Credit, three hours.

**HIST-315. AFRICAN HISTORY TO 1884. 3:3:0**

The history of Africa from earliest times to the Berlin Conference, which signaled the division of Africa by the European powers. Credit, three hours.

**HIST-316. AFRICAN HISTORY SINCE 1884. 3:3:0**

The history of colonialism in Africa, the movement toward independence, and conditions in selected countries since independence. Credit, three hours.

**HIST-319. ANCIENT HISTORY TO THE FIFTH CENTURY A.D. 3:3:0**

This course details the evolution of ancient civilizations in Mesopotamia and Egypt and describes the contributions of the Greeks, Hellenistic, and Roman cultures. Credit, three hours.

**HIST-320. MEDIEVAL EUROPE FROM 500 A.D. TO 1500 A.D. 3:3:0**

The history and civilization of Europe is examined with particular attention being paid to the development of institutions and ideas that characterize Western Culture. Credit, three hours.

**HIST-321. EARLY MODERN EUROPE FROM 1500 A.D. TO 1815 A.D. 3:3:0**

The Renaissance, Reformation, and Enlightenment are highlighted with particular emphasis on the emergence of Humanism, Science, and Rationalism. Credit, three hours.

**HIST-322. MODERN EUROPE FROM 1815 TO THE PRESENT.****3:3:0**

A study of the principal cultural, economic, and political developments in Europe since the French Revolution and an introduction to recent historical scholarship. Credit, three hours.

**HIST-332. HISTORY OF RUSSIA.****3:3:0**

A study of Russian History from the emergence of the first Slavic settlements to the rise of the modern Soviet state. Political, economic, and intellectual trends are highlighted. Credit, three hours.

**HIST-462. SEMINAR IN EUROPEAN HISTORY.****3:3:0**

This seminar examines special topics on all aspects of European history. The specific topic to be covered will be stated in that semester's course listings. Prerequisites: History 101 or 102 or consent of instructor. Credit, three hours.

**HIST-463. SEMINAR IN LATIN AMERICAN HISTORY.****3:3:0**

This seminar examines special topics on all aspects of Latin American History. The specific topic to be covered will be stated in that semester's course listings. Prerequisites: History 101 or 102, or consent of Instructor. Credit, three hours.

**HIST-464. SEMINAR IN ASIAN HISTORY.****3:3:0**

This seminar examines special topics on all aspects of Asian History. The specific topic to be covered will be stated in that semester's course listings. Prerequisites: History 101 or 102, or consent of the Instructor. Credit, three hours.

**HIST-465. SEMINAR IN AFRICAN HISTORY.****3:3:0**

This seminar examines special topics on all aspects of African History. The specific topic to be covered will be stated in that semester's course listings. Prerequisites: History 101 or 102, or consent of Instructor. Credit, three hours.

**HIST-466. SEMINAR IN BLACK STUDIES****3:3:0**

This seminar examines special topics on all aspects of the African world across the globe: Africa, Latin America, Europe, Asia/Pacific, and the United States of America. The specific topic to be covered will be stated in that semester's course listings. Prerequisites: History 101,102, or AFST-201 (Introduction to Africana Studies); or consent of Instructor. Cross listed with AFST-400 Credit, three hours.

***UPPER DIVISION SPECIALTY COURSES*****HIST-338. INTRODUCTION TO WORLD RELIGIONS****3:3:0**

An introductory cross-cultural survey of the major religious traditions of the world.

**HIST-344. INDEPENDENT STUDY IN HISTORY.****3:3:0**

An intensive investigation of a topic within the discipline of History under the guidance of a faculty member. Course requirements include regular conferences relating to a research paper or other appropriate project. Prerequisites: 290; Consent of the instructor, execution of a written agreement describing the subject and scope of the research project prior to enrollment, and 15 hours of prior course work in History. Credit, three hours.

**HIST-445. TEACHING HISTORY AND SOCIAL SCIENCE IN THE SECONDARY SCHOOL. 3:3:0**

Instruction in current methods, materials and appropriate activities for effective teaching of social science in secondary schools/including preparation of lesson plans, units and projects, demonstrations, visits to schools and discussions on special problems in teaching social science. Emphasis is placed on technological advances and their application to the modern classroom experience. Prerequisite: junior standing; Credit, three hours.



**HIST-446. RESEARCH METHODS IN HISTORY.****3:3:0**

This is an advanced level course which focuses on methods of historical research, including the use of archives, library research skills, and accessing government documents. Prerequisite: Junior or senior level; and 290 Credit, three hours.

**HIST-447. COMPUTER SKILLS IN HISTORICAL RESEARCH.****3:3:0**

This is an advanced level course, which focuses on the use of the computer, including word processing, spreadsheets, databases, graphics and publishing programs. Prerequisite: Junior or Senior level; and 290. Credit, three hours.

**HIST-470. HISTORY INTERNSHIP.****3:3:0**

Students interested in an internship experience with a private historical group or a local, state, or federal government agent should consult with the department chairperson for program information. Prerequisite: Junior or Senior level; and 290. *Credit, three to nine hours.*

**POLITICAL SCIENCE (PLSC) (33)****PLSC-103. INTRODUCTION TO POLITICAL SCIENCE.****3:3:0**

A survey of the major concepts, issues, and controversies in the discipline of political science and its various sub-fields. Credit, three hours.

**PLSC-200. AMERICAN NATIONAL GOVERNMENT.****3:3:0**

An examination of the structure and operation of the Presidency, Congress, Bureaucracy, and Supreme Court and the role of political parties, elections, interest groups, and the news media in American politics. Credit, three hours

**PLSC-210. CONTEMPORARY POLITICAL IDEOLOGIES.****3:3:0**

A study of political ideologies, which shape the values, beliefs, and actions of contemporary regimes and political movements. Ideologies including, but not limited to, democracy, liberalism, conservatism, socialism, communism, anarchism, fascism and feminism will be examined. Credit, three hours.

**PLSC-214. RESEARCH METHODS IN POLITICAL SCIENCE.****3:3:0**

Research design techniques including hypothesis testing, sampling, questionnaire construction, and aggregate data analysis. Students will be introduced to the elements of survey research (polling) and conduct either an individual or group research project. No prior knowledge of statistics is necessary. Credit, three hours.

**PLSC-220. COMPARATIVE GOVERNMENT.****3:3:0**

A study of the governments and politics of countries around the world. The choice of governments may vary depending on the interests of the students and the instructor. Credit, three hours.

**PLSC-230. INTERNATIONAL POLITICS.****3:3:0**

A study of the economic, diplomatic, military, and legal relationships among states. Designed to provide a conceptual framework leading to a better understanding of world affairs. The course will cover such topics as the nation-state system, the sources of national power, conflict and conflict resolution, international law, and organization. Credit, three hours.

**PLSC-250. STATE AND LOCAL GOVERNMENT.****3:3:0**

A study of US state and urban governments with special emphasis on Delaware. Credit, three hours.

**PLSC-307. CONSTITUTIONAL LAW.****3:3:0**

The principles of constitutional law as interpreted by Supreme Court decisions on the allocation of powers to the state and between the three branches of the federal government. Prerequisite: Either Political Science 103 or 200 or approval of the instructor. Credit, three hours.

**PLSC-308. CIVIL LIBERTIES.****3:3:0**

An examination of the Supreme Court's interpretation of constitutional freedoms under the First Amendment (press, speech, religion, assembly, and petition), the Due Process Clause (racial and sexual equity), and criminal rights (arrests, search and seizure). Prerequisite: either Political Science 103 or 200 or approval of the instructor. Credit, three hours.

**PLSC-309. LSAT PREPARATION COURSE****3:3:0**

This course is designed to prepare students for Law School Admission Test. The instructor will go over test taking strategies and hints during each class. Students will also take practice exams throughout the semester. Credit, three hours.

**PLSC-310. AMERICAN POLITICAL THOUGHT.****3:3:0**

The evolution of American political thought from colonial times to the present with an emphasis on how ideas influence government policy and political behavior. Prerequisite: History 201 or 202. Credit, three hours.

**PLSC-315. PARTIES, CAMPAIGNS, AND ELECTIONS.****3:3:0**

The nature and function of political parties in the American two-party system; the role of money and television in modern campaigns; voting behavior and electoral reform. Prerequisite: either Political Science 103 or 200 or approval of the instructor. Credit, three hours.

**PLSC-320. BLACK POLITICS IN AMERICA.****3:3:0**

This course is an exploration of Black participation in the larger American political system. It is principally a historical analysis of Black political experience. It examines economic and cultural aspects of this experience, Black political ideologies, Black political leadership, voting behavior, deracialization, political movements, and Blacks in U.S. foreign policy. Prerequisite: either Political Science 103 or 200 or approval of the instructor. Credit, three hours.

**PLSC-325. POLITICS OF DEVELOPING NATIONS****3:3:0**

A study of political development and change in the nations of Asia, Africa, and Latin America. Prerequisite: 103 or consent of instructor. Credit, three hours.

**PLSC-330. FIELD WORK IN POLITICAL SCIENCE****3:3:0**

A supervised experience designed to give the student firsthand knowledge of some aspect of political behavior. Prerequisite: consent of the instructor. Credit, three hours.

**PLSC-340. GOVERNMENT AND BUSINESS.****3:3:0**

Survey of corporate-government relations in the United States focusing on how corporations influence government decision-makers and how government policies affect business operations. Prerequisite: 200 or consent of instructor. Credit, three hours.

**PLSC-355. AMERICAN FOREIGN POLICY.****3:3:0**

A study of the American foreign policy-making process and the role of the United States in international relations. Prerequisite: either Political Science 103 or 200 or consent of instructor. Credit, three hours.

**PLSC-400. THE PRESIDENCY.****3:3:0**

A study of the office, powers, and behavior of the president with an analysis of his major roles as chief administrator, legislator, opinion leader, foreign policy-maker, and commander-in-chief. Prerequisite: Political Science 200 or approval of the instructor. Credit, three hours.

**PLSC-403. THE CONGRESS.****3:3:0**

A study of the U.S. Congress to include the structure of the House and Senate (the committee system, legislative rules and procedures, party leadership, and caucuses) and congressional behavior (campaigning, constituency representation, and decision-making). Prerequisite: Political Science 200 or approval of the instructor. Credit, three hours.

**PLSC-405. THE SUPREME COURT.****3:3:0**

The organization and powers of the federal judiciary; the selection of federal judges; judicial philosophy and behavior; judicial decision-making and the impact of the Supreme Court on the political process. Prerequisite: Political Science 200 or approval of the instructor. Credit, three hours.

**PLSC-408. BUREAUCRACY AND PUBLIC POLICY.****3:3:0**

The role of bureaucracy in modern American government; bureaucratic power and politics; decision-making and the implementation of public policy; political constraints on bureaucracy. Prerequisite: Political Science 200 or approval of the instructor. Credit, three hours.

**PLSC-420. INDEPENDENT STUDY IN POLITICAL SCIENCE.****3:3:0**

An intensive investigation of a topic within the discipline of political science under the guidance of a political science faculty member. Course requirements include regular conferences, reading assignments, and a research paper. Prerequisite: consent of the instructor and 15 hours of prior course work in political science. Credit, three hours.

**PLSC-450. SEMINAR ON INTERNATIONAL ORGANIZATIONS****3:30:0**

This course investigates the nature, development, functions, behavior and relevance of international organizations in the conduct of international relations. Credit, three hours.

**PLSC-466. SEMINAR IN POLITICAL SCIENCE.****3:3:0**

This seminar examines special topics on all branches of the political science discipline. The specific topic to be covered will be stated in that semester's course listings. Credit, three hours.

**PLSC-470. POLITICAL SCIENCE INTERNSHIP.****3:3:0**

Students interested in an internship experience with a local, state, or federal government agency should consult with an advisor and the department chairman for program information. *Credit, three to nine hours.*

**GEOGRAPHY (GEOG) (32)****GEOG-101. HUMAN GEOGRAPHY****3:3:0**

This course concerns itself with the relationship between humans their environment, and the growth of applied science. Credit, three hours.

**GEOG-201. WORLD REGIONAL GEOGRAPHY****3:3:0**

This course is designed to make the student aware of the people and cultures of the contemporary world. The course fulfills the World Regional Geography requirements for elementary and secondary education majors. Credit, three hours.

**PHILOSOPHY (PHIL) (03)****PHIL-101. CRITICAL THINKING.****3:3:0**

The course is designed to develop and refine students' ability to think more clearly and more logically. The means to this end is a study of elementary logic. Credit, three hours.

**PHIL-105. CONTEMPORARY MORAL ISSUES. \*****3:3:0**

A critical examination of such major current moral issues as abortion, euthanasia, pornography, retribution, and capital punishment, affirmative action and reverse discrimination, social and economic justice and ethical issues in agriculture and the environment. Credit, three hours.

**PHIL-201. INTRODUCTION TO PHILOSOPHY. \*****3:3:0**

Topics typically include: the general goals and methods of philosophy, the existence of God, the problem of evil, the immortality of the soul, the meaning of life, and free will. Credit, three hours.

**PHIL-202. ETHICS. \*****3:3:0**

Ethics is concerned primarily with the inquiry concerning various rules of conduct and "ways of life." Such fundamental ethical issues as egoism and altruism, freedom and determination, and the nature of moral decision-making will be highlighted through a critical examination of some of the writings of several classic ethical theorists, e.g., Plato, Mill, Kant, and Rawls. Credit, three hours.

**PHIL-206. LOGIC.****3:3:0**

A study of the methods and principles used to distinguish correct from incorrect reasoning, both deductive and inductive. Designed to help students reason more effectively themselves and to develop the ability to cogently criticize the reasoning of others. Credit, three hours.

**PHIL-231 (331 AND 431). SELECTED TOPICS IN PHILOSOPHY.****3:3:0**

Information on the content of these offerings is available, prior to pre-registration, from philosophy faculty. Credit, three hours.

**PHIL-300. HISTORY OF ANCIENT PHILOSOPHY.****3:3:0**

The course covers classical philosophers starting in the sixth century B.C. through the Pre-Socratic period, Socrates, Plato, Aristotle, Epicureanism, stoicism, and skepticism ending with the second century A.D. Credit, three hours.

**PHIL-302. HISTORY OF MODERN PHILOSOPHY.****3:3:0**

A study of the major European philosophers of the seventeenth and eighteenth centuries: Bacon, Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant. Credit, three hours.

**PHIL-304. POLITICAL PHILOSOPHY.****3:3:0**

Political philosophy is concerned primarily with the nature of the concept of justice and its application in society. Some of the arguments that support particular forms of government, e. g., democratic, oligarchic, autocratic, etc., will be dealt with through a critical examination of several classic writers in the field, e. g., Hobbes, Rousseau, Mill, Locke, and Rawls. Credit, three hours.

**PHIL-322. BIOETHICS.****3:3:0**

This course will be devoted to the critical examination of some of the most important ethical issues that arise in the field of biology and the life sciences, including: the moral responsibilities of health care professionals and the moral rights of patients, moral issues concerning human death and dying, moral issues concerning advances in biotechnology, and moral issues concerning medical research on humans and other animals. The consideration of these issues will be preceded by the laying of a foundation in normative ethical theory.

**PHIL-341-PHILOSOPHY 341/MANAGEMENT 341: BUSINESS ETHICS.****3:3:0**

This course will be devoted to an examination of some of the ethical issues that arise in the field of business. Specific topics to be considered include: business ethics and ethical theory, the moral status of corporations, ethical codes of conduct in business, truth and advertising, the rights and duties of employees, affirmative action, and environmental issues in business. Credit, three hours.

**PHIL-399. INDEPENDENT STUDY****3:3:0**

Qualified students, cooperation with a philosophy faculty member, may develop a course in some area of philosophy, which they wish to study in depth. Arrangements for such a course must be made by the end of the semester preceding the one in which the course is to be taken. Credit, three hours.

**PHIL-407. PHILOSOPHY OF RELIGION.**

**3:3:0**

A study of some of the philosophical issues inherent in religious belief; e.g., the existence of God, the attributes of God, the nature of religious experience, revelation, faith, and the possibility of religious knowledge. Credit, three hours.

## **DEPARTMENT OF MASS COMMUNICATIONS**

**Professors:** Hagos

**Associate Professor:** German (Chair), Edwards

**Assistant Professor:** Raythatha, Nagelberg

**Visiting Instructor:** Areke

**Radio/Broadcast Manager/Instructor:** Perrine

**Studio Manager/Instructor:** Ciammaichelli

The Department of Mass Communication produces graduates who specialize in convergence journalism, public relations/advertising, and radio, television, as well as film production. The curriculum combines three (3) essential elements of learning:

1. A theoretical approach to enable students to understand concepts of mass communications.
2. A performance-based approach to develop skills and techniques to enable students to be proficient with communication technologies.
3. An internship program to place students in off-campus learning environments working with professionals.

### **MASS COMMUNICATIONS**

New guidelines, policies and standards of accreditation and/or certification bodies may necessitate curricula changes. See the curriculum sheet for your concentration.

#### **General Education Requirements**

All students must complete the required General Education courses, as specified by the department.

#### **Core Area Mass Communications Requirements**

The Core Area engages students broadly in mass communications theory and techniques. Students develop an understanding of the influences that mass communications exert upon the individual and society by way of such elements as the social structure, the technology, the economy, the politics, and the media culture. Students must complete eighteen (18) semester hours of core courses. The required Core Courses in Mass Communications are: 101, 208, 334, 407, 450, and 460.

#### **Concentration Requirements**

The Concentration Requirements develop students' competence and skills in broadcast journalism, print journalism, public relations, radio production, and television production. The Sequence Area enables students to gain knowledge about the role of mass communications so that students can become practitioners.

The three (3) sequence areas and their requirements are:

**Convergence Journalism:** 241, 272, 336, 342, 405, and 408.

**Mass Communication Elective**

**Public Relations and Advertising:** 218, 280, 251 or 281, 342, 351, 353

**Mass Communication Elective**

**TV-Radio-Film:** 217, 336

216 or 223 (TV 1 or Sound 1)

371 or 361 (TV2 or Sound 2)

373 or 430 (TV3 or Sound 3)

307

**Mass Communication Elective**

### **Elective Requirements**

Electives offer students opportunities to acquire additional depth and skills in selected areas. Each student takes one elective within the Mass Communications Department and the remainder are Free electives, which can be taken outside the Department.

# Mass Communications Convergence Journalism – 2010



Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101*	English Composition I	3	ENGL-102*	English Composition II	3
MTSC-101	Survey of Math 1	3	SPSC-100	Lifetime Fitness and Wellness	2
MCOM-191	University Seminar I	1	MCOM-101	Communications Writing	3
MCOM-208	Intro to Mass Comm	3	MCOM-192	University Seminar II	1
MCOM-241	Reporting and Writing I	3	MCOM-272	Broad. News Gath/Reporting	3
xx-xx	Nat. Science Requirement I	3	xx-xx	Arts/Humanities Elective	3
Total Credits		16	Total Credits		15
Sophomore Spring Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200*	Speech	3	ENGL-	World / African-Am Lit II (202 or 206)	3
ENGL-	Literature World / African-Am Lit I (201 or 205)	3	HIST-	History (101, 102, 201-205)	3
	Elective	3		Elective	3
MCOM-536	Online Journalism	3		Social Science Elective	3
xx-xx	Natural Science Require. II	3	MCOM-	Magazine Feature Writing	3
Total Credits		15	Total Credits		15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
GLOB-395	Global Societies	3		**Open Elective	3
*MCOM	Mass Comm Elective	3	MCOM-450	Internship	3
xx-xxx	Open Elective	3	xx-xxx	Foreign Language II	3
xx-xxx	Foreign Language I	3	MCOM-408	Tech. & Scientific Writing	3
MCOM-407	Media Law and Ethics	3	MCOM-334	Media Research Techniques	3
Total Credits		15	Total Credits		15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
	Open Elective	3		Open Elective	3
MCOM-460	Senior Capstone or Elective	3	MCOM-460	Senior Capstone or Elective	3
xx-xx	Open Elective	3	xx-xx	Open Elective	3
MCOM-405	Tech. of Layout & Design	3	xx-xx	Open Elective	3
	Open Elective	3	xx-xx	Open Elective	2
Total Credits		15	Total Credits		14

**In Bold** -Must earn a grade of “C” or better or repeat the course

\*Mass Comm electives require a” C” or better and must be taken from list on back.

\*\*Open electives must be taken OUTSIDE the department.

**Total Credits:  
120**



### Approved Electives

Sports Broadcasting  
Online Journalism  
Intro to Documentary Filmmaking  
Intro to Media Technology  
Organizational Communication

A-t-C Outcome	Courses
Reading/Speaking/Listening	MCOM208, MCOM261, MCOM215
Self-Evaluation	MCOM191, MCOM192, MCOM208, MCOM425
Wellness	MCOM220, Activities of the Mass Comm Dept.
Information Literacy	MCOM217, MCOM334
Computer Competency	MCOM334
Writing in Major - Outside the Capstone	MCOM206, MCOM261, MCOM409
Quantitative Reasoning	MCOM334
Global Issues	MCOM208, MCOM407

**Mass Communications  
Public Relations  
and Advertising - 2010**



Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101*	English Composition I	3	ENGL-102*	English Composition II	3
MTSC-101	Survey of Math 1		SPSC-100	Lifetime Fitness and Wellness	2
MCOM-191	University Seminar I	1	MCOM-101	Communications Writing	3
MCOM-208	Intro to Mass Comm	3	MCOM-192	University Seminar II	1
MCOM-218	Pub Rel Principles & Practices	3	xx-xxx	Natural Science Req. II	3
xx-xx	Nat Sci Requirement 1	3	xx-xx	Arts Humanities Elective	3
Total Credits		16	Total Credits		15
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200*	Speech	3	ENGL-	Literature World / African-Am Lit II (202 or 206)	3
ENGL-	Literature World / African-Am Lit I (201 or 205)	3	HIST-	History (101, 102, 201-205)	3
MCOM-251 or 281	Public Relations Writing Or Advertising Writing	3	xx-xx	Social Science Elective	3
MCOM-280	Principles and Practices of Advertising	3	MCOM-251 or 281	PR Writing or Advertising Writing	3
xx-xx	Elective	3		Elective	3
Total Credits		15	Total Credits		15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
GLOB-395	Global Societies	3	MCOM-334	Media Research Techniques	3
xx-xxx	Open Elective	3	MCOM-342	Pub Rel Mgt and Campaigns	3
xx-xxx	Open Elective	3	MCOM-450	Internship	3
xx-xx	Foreign Language I	3	-	Foreign Language II	3
xx-xx	Open Elective	3	MCOM-351	PR and the Net (formerly Advanced PR)	3
Total Credits		15	Total Credits		15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MCOM-353	Public Opinion & Propaganda	3	MCOM-407 - *	Media Law and Ethics	3
MCOM-460	Sr. Capstone or Elective	3	MCOM-460	Senior Capstone or Elective	3
MCOM **	Mass Comm Elective	3	xx-xx	Open Elective	3
xx-xx	Open Elective	3	xx-xx	Open Elective	3
xx-xx	Open Elective	3	xx-xx	Open Elective	2
Total Credits		15	Total Credits		14

In Bold -Must earn a grade of "C" or better or repeat the course

\*Choice of PR Writing or Advertising Writing – student takes only one.

**Total Credits:  
120**

**\*\*Mass Comm Elective requires “C” or better and must be from approved list on back.**  
**\*\*\*”Open” Elective must be taken OUTSIDE Mass Comm Department.**

### **Approved Electives**

**Sports Broadcasting**  
**Online Journalism**  
**Intro to Documentary Filmmaking**  
**Intro to Media Technology**  
**Organizational Communication**

<b>A-t-C Outcome</b>	<b>Courses</b>
<b>Reading/Speaking/Listening</b>	<b>MCOM208, MCOM261, MCOM215</b>
<b>Self-Evaluation</b>	<b>MCOM191, MCOM192, MCOM208, MCOM425</b>
<b>Wellness</b>	<b>MCOM220, Activities of the Mass Comm Dept.</b>
<b>Information Literacy</b>	<b>MCOM217, MCOM334</b>
<b>Computer Competency</b>	<b>MCOM334</b>
<b>Writing in Major - Outside the Capstone</b>	<b>MCOM206, MCOM261, MCOM409</b>
<b>Quantitative Reasoning</b>	<b>MCOM334</b>
<b>Global Issues</b>	<b>MCOM208, MCOM407</b>

# Mass Communications Television, Radio and Film Production - 2010



Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MCOM-191	University Seminar I	1	MCOM-192	University Seminar II	1
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
	Social Science Elective	3	SPSC-100	Lifetime Fitness and Wellness	2
MTSC-101	Survey of Math I	3	MCOM-101	Communications Writing	3
MCOM-208 or 217	Intro to Mass Comm or Intro to Media Tech.	3	MCOM-217 or 208	Intro to Media Technology or Intro. To Mass Comm	3
	Arts/Humanities Elective	3	-	Natural Science Requirement I	3
	Total Credits	16		Total Credits	15
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	ENGL-	Literature II (World /African-Am) 202 or 206	3
ENGL-	World/Afri-Amer Lit I (201or205)	3	HIST-	Amer/Afri-Amer Hist.(201-204)	3
MCOM-216 or 223	TV Production I (TV Prod.) or Sound I	3	PHYS-201	Nat. Sci II-Concepts of Physics	3
MCOM-336	Online Journalism	3	MCOM-371 or 361	TV Prod. II (Digital Video Tech) or Sound Production II	3
xx-xxx	Foreign Language I	3	xx-xxx	Foreign Language II	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
GLOB-395	Global Societies	3		Open Elective	3
MCOM-373 430	TV Production III (Advanced Video Prod.) or Sound III	3		Open Elective	3
MCOM-	Media Management	3	MCOM-407	Media Law and Ethics	3
MCOM-334	Media Research Tech.	3		Elective	3
	**Open Elective	3		Elective	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MCOM-460 or	Sr. Capstone or Open Elective	3	MCOM-460 or	Sr. Capstone or Open Elective	3
MCOM-450	Internship	3		Open Elective	3
MCOM-307	American Cinema & Society	3		Open Elective	3
**MCOM	Mass Comm Elective	3		Open Elective	3
	Open Elective	3		Open Elective	2
	Total Credits	15		Total Credits	14

\*\*\*Mass Comm elective requires "C" or better and must be taken from approved list.

\*\*\*Open electives must be taken OUTSIDE Mass Comm Department

**Total Credits:  
120**

**Approved Electives**

**Sports Broadcasting  
Online Journalism  
Intro to Documentary Filmmaking  
Intro to Media Technology  
Organizational Communication**

<b>A-t-C Outcome</b>	<b>Courses</b>
<b>Reading/Speaking/Listening</b>	<b>MCOM208, MCOM261, MCOM215</b>
<b>Self-Evaluation</b>	<b>MCOM191, MCOM192, MCOM208, MCOM425</b>
<b>Wellness</b>	<b>MCOM220, Activities of the Mass Comm Dept.</b>
<b>Information Literacy</b>	<b>MCOM217, MCOM334</b>
<b>Computer Competency</b>	<b>MCOM334</b>
<b>Writing in Major - Outside the Capstone</b>	<b>MCOM206, MCOM261, MCOM409</b>
<b>Quantitative Reasoning</b>	<b>MCOM334</b>
<b>Global Issues</b>	<b>MCOM208, MCOM407</b>

## **MASS COMMUNICATIONS (MSCM) (55)**

### **MSCM-101. COMMUNICATIONS WRITING**

**3:3:0**

This course is designed to provide our Communication students with background in all forms of writing that they will encounter as professionals. They will study traditional structures such as newspaper and news media. They will learn how writing for the ear differs from writing for the newspaper or screen. They will learn the basis of Internet writing. All these areas will be explored further by students once they move into the next more specialized phases of the program.

Credit, three hours.

### **MSCM-191. UNIVERSITY SEMINAR I – MASS COMMUNICATIONS**

**1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **MSCM-192. UNIVERSITY SEMINAR II – MASS COMMUNICATIONS**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **MSCM-209. ORGANIZATIONAL COMMUNICATION (Mass Comm Elective)**

**3:3:0**

The course introduces students to the communication dynamics of an organization. Students discuss such topics as upward and downward communications, human relations, bargaining, and organizational culture.

Credit, three hours.

### **MSCM-216. TELEVISION PRODUCTION I**

**3:3:0**

The course explores the principles, mechanics, techniques, tools, processes, and aesthetics of television production. Students learn to perform the basic job requirements of the camera operator, audio operator, video switcher, lighting director, floor manager, graphics operator, and director.

Prerequisites: MSCM-217.

Credit, three hours.

### **MSCM-217. INTRODUCTION TO MEDIA TECHNOLOGY**

**3:3:0**

The course is designed to introduce students to the technical and operational basics of audio, video, and multimedia production needed to be successful in the higher-level 55-classes.

Credit, three hours.

### **MSCM-218. PUBLIC RELATIONS PRINCIPLES AND PRACTICES**

**3:3:0**

The course introduces the student to the practice of public relations. The entire scope of the field will be examined with emphasis placed upon areas of specialization, media relations, and simultaneous multi-public workings.

Credit, three hours.

**MSCM-220. SPORTS BROADCASTING (Mass Comm Elective)****3:3:0**

The course is designed to introduce students to the technical, organizational, and practical side of announcing sports on radio and television.

Prerequisites: MSCM-215.

Credit, three hours.

**MSCM-223. SOUND PRODUCTION I****3:3:0**

The course introduces students to the history of sound in radio and television. Students examine the influence of television on sound perception. Students learn techniques and applications of editing and sound processing. Students utilize music/sound libraries.

Prerequisites: MSCM-217.

Credit, three hours.

**MSCM-241. REPORTING AND WRITING****3:3:0**

The course gives basic instruction and practice in news gathering and writing for publication, internet, or broadcast outlet.

Credit, three hours.

**MSCM-251. PUBLIC RELATIONS WRITING****3:3:0**

The course gives students practical experience in developing written communications tools used in public relations. The student learns to prepare press releases, biographies, fact sheets, speeches, brochures, newsletters, and press kits.

Prerequisites: MSCM-218.

Credit, three hours.

**MSCM-280. PRINCIPLES OF ADVERTISING****3:3:0**

This course introduces students to the history, nature, and function of advertising and its role in the communications process. Students are exposed to creative functions of the theoretical and practical opinions of message development and advertising media selection.

Credit, three hours.

**MSCM-300. ADVERTISING COPYWRITING****3:3:0**

This course prepares students to design, write copy and scripts for print, Internet, and broadcast commercials. Students learn about the creative side of an advertising agency, preparing them to work as copywriters, graphic designers, art directors, and creative directors.

Prerequisites: MSCM-280.

Credit, three hours.

**MSCM-307. AMERICAN CINEMA AND SOCIETY****3:3:0**

Student will critically screen a selection of feature length, narrative films, and documentaries created by both well-regarded and emerging American Directors. They will consider and discuss what this medium continues to say about us and our society, both in terms of content and the timing and manner of release. Students will learn the grammar of film and to recognize techniques used by these storytellers to telegraph their own viewpoints about their subjects. Students will write about and defend in active conversation with classmates their own conclusions about the medium and films screened in class.

Credit, three hours.

**MSCM-311. INTRODUCTION TO DOCUMENTARY FILMMAKING****3:3:0**

Participants will be introduced to the history, criticism, and fundamental concepts of producing documentary film and digital media. Students will screen, discuss, and deconstruct documentary films and digital media from an international body of work that represents cross section of both topics and production modes. They will gain an appreciation for the history of documentary filmmaking and the pioneers who helped to establish the documentary form.

Prerequisites: MSCM-371 or MSCM-409.

Credit, three hours.

**MSCM-334. MEDIA RESEARCH TECHNIQUES****3:3:0**

The course provides experiences in the fundamentals of scientific research in general and mass media research in particular and it exposes students to a variety of research approaches and research methods, data collection, and data analysis procedures.

Prerequisites: Junior or Senior status.

Credit, three hours.

**MSCM-336. ON-LINE JOURNALISM****3:3:0**

The course covers the basics of online storytelling including producing multimedia presentations, blogging, social media and examines the legal and ethical challenges created by the free flow of information on the Internet..

Credit, three hours.

**MSCM-342. MAGAZINE WRITING****3:3:0**

The course teaches students to write editorial and feature stories for magazine and newspaper publication. Students will examine the relationship between editorial/feature content and the audience market. Students are required to submit work for publication.

Prerequisites: MSCM-241.

Credit, three hours.

**MSCM-344. INDEPENDENT STUDY****1-3:1-3:0**

An independent project or series of readings, research, and writing.

Prerequisites: Consent of the Instructor and Department Chair.

Credit, one to three hours.

**MSCM-351. PUBLIC RELATIONS AND THE NET****3:3:0**

The course analyzes the state of contemporary media – online and off – and its impact on public relations examining key factors influencing reportorial and editorial coverage of entertainment, business, government, and not-for-profit interest. Special emphasis is on the advent of the Internet, the rise of citizen journalism, and the impact of blogs and other social media. Students will utilize a free online website development tool to develop a strategic media relations campaign aimed at publicizing a product, service, idea, or issue of their employers or other organizations, and that uses a variety of traditional and non-sensible outcomes.

Credit, three hours.

**MSCM-352. PUBLIC RELATIONS MANAGEMENT AND CAMPAIGNS****3:3:0**

The course examines problems public relations practitioners have encountered in the areas of business, education, religion, and non-profit organizations. Students examine both successful and unsuccessful campaigns.

Prerequisites: MSCM-251.

Credit, three hours.

**MSCM-353. PUBLIC OPINION AND PROPAGANDA****3:3:0**

The course exposes students to historical uses of persuasive communication. Students learn how to communicate persuasively.

Prerequisites: MSCM-251.

Credit, three hours.



**MSCM-361. SOUND PRODUCTION II****3:3:0**

The course permits students to produce feature programs for radio or sound tracks for television. Students produce synchronous and asynchronous studio and location recordings. Students learn the art of digital and analog mixing.

Prerequisites: MSCM-223.

Credit, three hours.

**MSCM-371. TELEVISION PRODUCTION II****3:3:0**

The course builds on Television Production I and incorporate administering, directing, producing, editing, and programming of television programs.

Prerequisites: MSCM-216.

Credit, three hours.

**MSCM-372. BROADCAST NEWS GATHERING AND REPORTING****3:3:0**

The course enables students to gather and report news using electronic and traditional means. Students produce news segments using electronic newsgathering equipment.

Credit, three hours.

**MSCM-373. TELEVISION PRODUCTION III****3:3:0**

The course provides skills in the creation of multi-images and in the manipulation of the image size, shape, light and color, texture, and motion. The course builds on Television Production I and II.

Prerequisites: MSCM-371.

Credit, three hours.

**MSCM-405. TECHNIQUES OF LAYOUT AND DESIGN****3:3:0**

The course will provide experience in newspaper and magazine make-up. Students will have hands-on experience in preparation of news copy, page layouts, pictures, and other graphic materials for newspaper publication and layout, typography for magazines, newsletters, brochures, and similar publications.

Prerequisites: MSCM-241.

Credit, three hours.

**MSCM-407. ETHICS AND THE MEDIA****3:3:0**

The course examines the legal and ethical principles and standards governing print and electronics media. Furthermore, the course examines the performance of the various media of mass communications in light of ethical standards, employing case studies, lectures, and discussion sessions.

Credit, three hours.

**MSCM-408. TECHNICAL AND SCIENTIFIC WRITING****3:3:0**

The course will provide experience in writing scientific and technical material.

Prerequisites: ENGL-101, ENGL-102, or consent of the Department.

Credit, three hours.

**MSCM-430. SOUND PRODUCTION III****3:3:0**

The course trains students to merge traditional writing with audio-video production in the Internet-oriented newsroom. The course will introduce the students to the technical, editorial, business, and creative demands of the online journalism market.

Prerequisites: MSCM-361.

Credit, three hours.

**MSCM-440. MEDIA MANAGEMENT****3:3:0**

The course examines mass communication management problems via examination of the historical, social, cultural, legal, economic structure, and operation of American media organizations.

Credit, three hours.

**MSCM-450. INTERNSHIP****3:3:18**

The course provides a supervised program to give students knowledge and experience in the areas of concentration.

Prerequisites: Consent of the Department Chair.

Credit, three hours.

**MSCM-460. SENIOR CAPSTONE****3:3:0**

The course permits students to propose, write, design, produce, and direct extended production programs. Students will also write a research paper in support of their creative project.

Prerequisites: MSCM-334, Senior status, and consent of the Department Chair.

Credit, three hours.

## DEPARTMENT OF MUSIC

**Chair:** Dr. Horace Lamar

**Professor:** L. Davis

**Associate Professors:** P. Hoffman, Y. Johnson, M. Morrison, D. Tolley, L. Mallory, H. Lamar

**Assistant Professors:** F. Gazda

**Director of Choral Activities:** Curtis Powell

**Director of Bands:** Randolph Johnson

**Vocal Artist-in-Residence:** Marilyn Moore

The general goals of the Music Department are to:

1. Prepare students for elementary and secondary music teaching positions.
2. Prepare students for a professional career in music and/or graduate study in music.
3. Stimulate students' development of musical understanding and appreciation by offering appropriate courses, activities, and ensembles for their participation.
4. Function as a viable service unit that meets the needs of the University and extended community.
5. Develop elementary education majors' musical skills and pedagogy that are necessary for them to integrate music in areas of the school curriculum.

### Entrance Requirements

In addition to the University's admission requirements, entering freshmen and transfer students must:

1. Complete an audition on a principal instrument, i.e., voice, piano, or a band/orchestral instrument. The audition provides the music faculty the opportunity to determine students' solo performance skills and abilities.
2. Complete a theory and piano placement examination for diagnostic purposes.
3. Complete a personal interview.
4. Submit three (3) letters of recommendation attesting to their potential for successful completion of a music degree program. Letters may be submitted by ensemble Directors, private music Instructors, or appropriate school officials.

Those applicants who do not fully meet the entrance requirements, but who show potential for satisfactory achievement, will be required to complete supplementary work designed to assist them in satisfying these requirements.

Students who select the comprehensive music education program must satisfy all course requirements in the General Education Program. Additionally, the following requirements must be completed for the comprehensive program:

1. Admission to the Teacher Education Program (TEP), Students must pass PRAXIS I.
2. Praxis II must be passed before students can student teach.
3. Minimum of 2.5 GPA.

### General Requirements

Music majors are required to:

1. Pass all major courses, English Composition I and II (English 101 & 102) and Survey of Math I (Math 101 & 102) with a grade of "C" or higher. Music Education majors must pass all education courses with at least a grade of "C".
2. Attend Departmental student meetings and music performance and nonperformance seminars.
3. Provide their own instrument for their major performing medium.

4. Present an acceptable senior recital. **Music Education** majors must complete the senior recital and all curricular requirements the semester prior to student teaching.

### **Bachelor of Arts Degree Programs in Music**

1. Music Education
2. Music

### **Music Majors**

(See General Education Requirements.) All other applicable course requirements are indicated on the curriculum check sheets. Additionally, each curriculum option requires the successful completion of a senior recital involving the student's major applied instrument.

### **Music Minor**

A total of twenty-eight (28) credit hours are required of students who desire to complete a minor concentration in music. These courses are:

1. Music Theory I and Ear Training Lab (Music 113), four (4) credits.
2. Music Theory II and Ear Training lab (Music 114), four (4) credits.
3. Piano Classes I, II, III, IV, (Music 120, 121, 220, 221), four (4) credits.
4. Applied major instrument, four (4) credits.
5. Six (6) ensemble credits which are appropriate for the major performing medium or students' abilities.
6. Music History and Literature (I & II), (Music 323), three (3) credits, and Music History and Literature (III & IV), (Music 324), three (3) credits.

## **CURRICULUM OPTIONS IN MUSIC**

### **Music Education**

Students who select the Bachelor of Arts Degree in Music Education must satisfy course requirements in the General Education Program as required of all students (see General Education Requirements), Music Department courses as indicated in the four-year plan below, and Education Department courses as indicated in the four-year plan below. Music Education majors must also pass PRAXIS I before entering the Teacher Education Program, and all students must pass PRAXIS II before student teaching. A Senior recital is also required of all Education majors.

### **Music**

Students who select the Bachelor of Arts degree in Music must complete course requirements in the General Education Program as required of all students (see General Education Requirements), and Music Department courses as indicated in the four-year plan below.

### **Applied Music**

Applied music instruction is required of all Music majors and minors. Weekly applied instruction is required of students studying voice, piano, and band/orchestral instruments. Music majors receive one (1) fifty-minute lesson each week of the semester, and those students enrolled in secondary instrument classes (or non-majors) receive one (1) thirty-minute lesson per week. All students must meet with their designated Instructors to receive their schedules.

**Piano Proficiency Examination**

All Music majors must pass a juried piano proficiency examination during completion of the last semester of Piano Class study. Students who fail the piano proficiency examination are required to repeat Music 121 and 221 (Piano Class II and Piano Class IV). (Capstone)

**B.A. Degree in COMPREHENSIVE MUSIC EDUCATION**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Comp I *	3	ENGL-102	English Comp II *	3
ENGL-191	University Seminar I – Music *	1	MUSC-192	University Seminar II – Music *	1
MTSC-101	Survey of Math I#	3	MTSC-102	Survey of Math II#	3
MUSC-104	Intro to Music Technology	1	MVSC-100	Lifetime Fitness & Wellness	2
MUSC-107/ MUSC-115	Chorus or Marching Band	1	MUSC-108/ MUSC-116	Chorus or Concert Band	1
MUSC-113	Music Theory. I & Ear Training Lab	4	MUSC-114	Music Theory II & Ear Training Lab	4
MUSC-120	Piano Class I	1	MUSC-121	Piano Class II	1
MUSC-101	Intro to Music ( –Music Majors” is required)	3	MUSC-1X6(X)	Applied Music (Private Lsn in Prim. Area)	1
MUSC-1X5(X)	Applied Music (Private Lsn in Prim. Area)	1	Must take Praxis I during freshman year.		
	Total Credits	18		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MUSC-220	Piano Class III	1	MUSC-221	Piano Class IV	1
ENGL-xxx	World or African-Amer Lit I or II#	3	BIOL, CHEM, or PHYS-XXX	Natural Science Elective # (26-141 Sound & Acoustics Recommended)	3
PSYC-201#	Intro to Gen Psychology	3	EDUC-313	Intro to Educ. of Children w/Exceptional Learning Needs	3
MUSC-207/ MUSC-215	Chorus or Marching Band	1	MUSC-208/ MUSC-216	Chorus or Concert Band	1
MUSC-2X5(X)	Applied Music (Private Lsn in Prim. Area)	1	MUSC-2X6(X)	Applied Music (Private Lsn in Prim. Area)	1
MUSC-213	Music Theory III & Ear Training (No separate lab)	3	MUSC-214	Music Theory IV & Ear Trng (lab included)	3
EDUC-204	Philosophical Foundations of Ed	3	MUSC-134	Vocal Techniques & Methods	1
ENGL-200	Speech	3	MUSC-128	Brass Techniques & Methods	1
			PSYC-316	Developmental Psychology	3
	Total Credits	18		Total Credits	17
Must Pass Praxis I & be admitted to TEP (Teacher Education Program) BEFORE Junior Year)					
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MUSC-300	Basic Conducting	1	MUSC-309/ 310	Vocal or Instrumental Conducting (Must also register concurrently for 06-320)	1
MUSC-126	Woodwind Techniques & Methods	1	MUSC-320	Music Ed Lab (Must also concurrently take with 06-309 or 310 & 302)	1

MUSC-323	Music History & Literature I *^	3	MUSC-324	Music History & Literature II *^	3
MUSC-301	Elementary Vocal & Instrumental Methods *	3	MUSC-302	Secndry. Vocal & Instrmtl. Methods *	3
MUSC-307/ 06-315	Chorus or Marching Band	1	MUSC-308/ 06-316	Chorus or Concert Band	1
MUSC-3X5(X)	Applied Music (Private Lsn in Prim. Area)	1	MUSC-3X6(X)	Applied Music (Private Lsn in Prim. Area)	1
EDUC-318/ GLST-395	Multicultural Education/Global Societies	3	MUSC-130	String Techniques & Methods	1
MUSC-100	African-American Music	3	MUSC-331	Orchestration & Arrng. ( <i>Voc/Instrmt</i> ))	2
MUSC-132	Percussion Tech. & Methods	1			
	Total Credits	17		Total Credits	13
To obtain a Pre-Service Teaching assignment, students must <u>PASS Praxis II</u> NLT early in the fall immediately preceding the semester in which they intend to do their Pre-Service Teaching.					

Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
EDUC-302	Reading in the Content Area	3	EDUC-400	Pre-Service Teaching**	12
EDUC-357	Effective Teaching & Classroom Mgmt.	4			
EDUC-416	Analysis of Student Teaching	1			
MUSC-3XX	Upper Division Music Elective(s) – may be 2 + 1	3			
MUSC-4X5(X)	Applied Music (Private Lsn in Prim. Area)	1			
MUSC-407/ MUSC-415	Chorus or Marching Band	1			
	Total Credits	13		Total Credits	12
All music ed majors are required to perform a senior recital NLT the fall semester of their senior year. Exceptions may be granted <i>only</i> by the Music Department Chair and the CPE.					

\*\* - Senior Capstone

\* - Writing Intensive Course(s)

# - A -D” is allowed in these courses; all others require min. “C”.

^ - Music History & Literature I & II fulfill gen ed history requirement.

Total Credits: 124
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<b>Across-the-Curriculum Content for <u>ALL</u> 3 Music Concentrations:</b> <b>1) BA in Comprehensive Music Ed    2) BA in Music    3) BA in Music Industry</b>	
<b>Across-the Curriculum Content</b>	<b>Covered in these Courses/Activities (reflected in syllabi &amp; department activities)</b>
Reading/Speaking/Listening	Ensemble courses & Applied Music (Critical listening and speaking to an audience); Music Theory & Music History Courses; Elementary & General Vocal & Instrumental Methods; African-American Music; Instrumental Techniques & Methods Courses (reading, speaking, and critical listening); Music Performance Seminars (public speaking to an audience); Speech; Music Industry: Music Marketing & Promotion; Student-run Company Project; Internship
African-American Experience	African-American Music Course; African-American Ensemble Repertoire
Self-evaluation	Applied Music; Ear Training Lab; Ensemble Courses; Conducting Courses; Instrumental Techniques & Methods Courses; Elementary & Secondary Vocal and Instrumental Methods; University Seminar; Orchestration & Arranging; Music Education Lab (all involve components of critical self-reflection and evaluation); Music Industry: Student-run Company Project; Internship
Wellness	Life-time Fitness & Wellness Course; Applied Music; Marching Band (effective/safe use of the body in music performance – performance health issues)
Information Literacy	Music History; Music Theory; African-American Music; Music Performance Seminars; Senior Recital Program Notes/ Research Paper (Optional for Music Ed majors) (all of the above courses are library and on-line research intensive)
Computer Competency	Intro to Music Technology Course (includes survey of music hardware and software and MS Office applications); Ear Training Lab (employs software in music technology lab); Music History (on-line listening assignments); Piano Classes (employ music technology lab); Orchestration & Arranging
Writing in Major	Music History; Music Theory; African-American Music; Elementary and Secondary Vocal & General Methods; University Seminar
Quantitative Reasoning	Survey of Math I & II and other recommended/required math courses; Music Theory; Orchestration & Arranging; Electives in Form & Analysis and Counterpoint (harmonic and spatial analysis); Music Industry: Accounting I, and other finance and COB courses included in the Management & Marketing minors
Multicultural	Multicultural Ed/Global Societies; Music History & Intro to Music Courses (world music content); African-American Music (African culture); Multicultural repertoire in Ensemble Courses; Overseas travel by various music department ensembles
Global Issues	Multicultural Ed/Global Societies; Music History & Intro to Music Courses (world music content); African-American Music (African culture); Multicultural repertoire in Ensemble Courses; Overseas travel by various music department ensembles Music Industry: Int'l Mgmt & Int'l Mktg; Music Publishing; Music Mktg & Promotion
Critical Thinking/Problem Solving	Applied Music; Ear Training Lab; Ensemble Courses; Conducting Courses; Instrumental Techniques & Methods Courses; Elementary & Secondary Vocal and Instrumental Methods; Music Theory (musical analysis); University Seminar; Orchestration & Arranging; Electives in Form & Analysis and Counterpoint (all involve components of critical thinking, self-reflection, and problem-solving); Music Industry: Music Marketing & Promotion; Student-run Company Project; Internship



**B.A. DEGREE IN MUSIC**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Comp I *	3	ENGL-102	English Comp II *	3
MUSC-191	University Seminar I – Music *	1	MUSC-192	University Seminar II – Music *	1
MTSC-XXX#	Math Elective# (25-110 & 111, or 101 or above)	3	MTSC-XXX#	Math Elective# (25-110 & 111, or 101 or above)	3
MUSC-104	Intro to Music Technology	1	MVSC-100	Lifetime Fitness & Wellness	2
MUSC-107 or MUSC-115	Chorus or Marching Band	1	MUSC-108 or MUSC-116	Chorus or Concert Band	1
MUSC-113	Music Theory I & Ear Training Lab	4	MUSC-114	Music Theory II & Ear Training Lab	4
MUSC-120	Piano Class I	1	MUSC-121	Piano Class II	1
MUSC-101	Intro to Music (section for –Music Majors” is required)	3	MUSC-1X6(X)	Applied Music (Private Lesson in Primary Performance Area)	1
MUSC-1X5(X)	Applied Music (Private Lesson in Primary Performance Area)	1			
Total Credits		18	Total Credits		16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MUSC-220	Piano Class III	1	MUSC-221	Piano Class IV	1
ENGL-201, 202, 205, or 206	World or African-Amer Lit I or II#	3	MUSC-100	African-American Music (A-A Exper.)	3
XX-XXX#	Social Science Elective# <i>Recommended: Intro to Gen Psychology (36-201) or Princ. of Macro-Econ (40-201) See Breadth Course List for other options.</i>	3	ENGL-200	Speech	3
MUSC-207 or MUSC-215	Chorus or Marching Band	1	MUSC-208 or 06-216	Chorus or Concert Band	1
MUSC-2X5(X)	Applied Music (Private Lesson in Primary Performance Area)	1	MUSC-2X6(X)	Applied Music (Private Lesson in Primary Performance Area)	1
MUSC-213	Music Theory III & Ear Training (w/o separate lab)	3	MUSC-214	Music Theory IV & Ear Training (w/o separate lab)	3
HIST-101, 102,	History Elective#	3	GLST-395	Global Societies	3

201, 202, 203, 204, or 205#					
	Total Credits	15		Total Credits	15

B.A. in Music					
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MUSC-300	Basic Conducting	1	MUSC-309 or 310	Vocal <i>or</i> Instrumental Conducting	1
xx-xxx	Foreign Language ( <i>Italian, French, or German recommended</i> )	3	xx-xxx	Foreign Language ( <i>Italian, French, or German recommended</i> )	3
MUSC-323	Music History & Literature I *	3	MUSC-324	Music History & Literature II *	3
MUSC-307 or 06-315	Chorus or Marching Band	1	MUSC-308 or MUSC-316	Chorus or Concert Band	1
MUSC-3x5(x)	Applied Music (Private Lesson in Primary Performance Area)	1	MUSC-3X6(X)	Applied Music (Private Lesson in Primary Performance Area)	1
MUSC-xxx	Music Elective(s); may be 2 courses (2 + 1)	3	MUSC-xxx	Music Elective(s); may be 2 courses (2 + 1)	3
MUSC-xxx	Small Ensemble Elective (not Marching Band, Chorus, or Concert Band)	1	MUSC-xxx	Small Ensemble Elective (not Marching Band, Chorus, or Concert Band)	1
			MUSC-331	Orchestration & Arranging ( <i>Includes vocal &amp; instrumental</i> )	2
	Total Credits	13		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
xx-xxx	Free Elective (Language recommended, esp. for vocalists)	3	xx-xxx	Free Elective (Language recommended, esp. for vocalists)	3
xx-xxx	Business Elective	3	BIOL, CHEM, or PHYS-xxx	Natural Science Elective # <i>Recommended: 26-141 Sound &amp; Acoustics (See Breadth Course List for other options.)</i>	3
xx-xxx	Business Elective	3	MUSC-xxx	Music Elective(s); may be 2 courses (2 + 1)	3
MUSC-3xx	Upper Division Music Elective(s) – may be 2 courses (2 + 1)	3	MUSC-1x6(x)	Minor Applied Music Elective	1
MUSC-4x5(x)	Applied Music (Private Lesson in Primary Performance Area)	1	MUSC-4x6(x)	*Applied Music (Senior Capstone)**	3
MUSC-407 or MUSC-415	Chorus or Marching Band	1			
MUSC-1x5(x)	Minor Applied Music Elective	1			

	Total Credits	15		Total Credits	13
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**\*\* - Senior Capstone**

**\* - Writing Intensive Course(s)**

**# - A “D” is allowed in these courses; all others require min. “C”.**

**58% Music Content; 42% Non-Music Content**

**Total Credits: 120**

<b>Across-the-Curriculum Content for <u>ALL</u> 3 Music Concentrations:  1) BA in Comprehensive Music Ed 2) BA in Music 3) BA in Music Industry</b>	
<b>Across-the Curriculum Content</b>	<b>Covered in these Courses/Activities (reflected in syllabi &amp; department activities)</b>
Reading/Speaking/Listening	Ensemble courses & Applied Music (Critical listening and speaking to an audience); Music Theory & Music History Courses; Elementary & General Vocal & Instrumental Methods; African-American Music; Instrumental Techniques & Methods Courses (reading, speaking, and critical listening); Music Performance Seminars (public speaking to an audience); Speech; Music Industry: Music Marketing & Promotion; Student-run Company Project; Internship
African-American Experience	African-American Music Course; African-American Ensemble Repertoire
Self-evaluation	Applied Music; Ear Training Lab; Ensemble Courses; Conducting Courses; Instrumental Techniques & Methods Courses; Elementary & Secondary Vocal and Instrumental Methods; University Seminar; Orchestration & Arranging; Music Education Lab (all involve components of critical self-reflection and evaluation); Music Industry: Student-run Company Project; Internship
Wellness	Life-time Fitness & Wellness Course; Applied Music; Marching Band (effective/safe use of the body in music performance – performance health issues)
Information Literacy	Music History; Music Theory; African-American Music; Music Performance Seminars; Senior Recital Program Notes/ Research Paper (Optional for Music Ed majors) (all of the above courses are library and on-line research intensive)
Computer Competency	Intro to Music Technology Course (includes survey of music hardware and software and MS Office applications); Ear Training Lab (employs software in music technology lab); Music History (on-line listening assignments); Piano Classes (employ music technology lab); Orchestration & Arranging
Writing in Major	Music History; Music Theory; African-American Music; Elementary and Secondary Vocal & General Methods; University Seminar
Quantitative Reasoning	Survey of Math I & II and other recommended/required math courses; Music Theory; Orchestration & Arranging; Electives in Form & Analysis and Counterpoint (harmonic and spatial analysis); Music Industry: Accounting I, and other finance and COB courses included in the Management & Marketing minors
Multicultural	Multicultural Ed/Global Societies; Music History & Intro to Music Courses (world music content); African-American Music (African culture); Multicultural repertoire in Ensemble Courses; Overseas travel by various music department ensembles
Global Issues	Multicultural Ed/Global Societies; Music History & Intro to Music Courses (world music content); African-American Music (African culture); Multicultural repertoire in Ensemble Courses; Overseas travel by various music department ensembles Music Industry: Int'l Mgmt & Int'l Mktg; Music Publishing; Music Mktg & Promotion

Critical Thinking/Problem Solving	Applied Music; Ear Training Lab; Ensemble Courses; Conducting Courses; Instrumental Techniques & Methods Courses; Elementary & Secondary Vocal and Instrumental Methods; Music Theory (musical analysis); University Seminar; Orchestration & Arranging; Electives in Form & Analysis and Counterpoint (all involve components of critical thinking, self-reflection, and problem-solving); Music Industry: Music Marketing & Promotion; Student-run Company Project; Internship
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## **MUSIC (MUSC) (06)**

### **MUSC-100. AFRICAN-AMERICAN MUSIC**

**3:3:0**

The purpose of this course is to develop students' knowledge and understanding of African and African-American music. Emphasis will be placed on the African Diaspora, the origins of African-American music, and composers and musicians who represent various African-American musical styles.

Credit, three hours.

### **MUSC-101. INTRODUCTION TO MUSIC**

**3:3:0**

A course designed to acquaint non-music majors with the broad field of music. Emphasis is placed upon the examination of common musical elements, musical style periods, and representative composers and musicians.

Credit, three hours.

### **MUSC-103. CHAMBER ENSEMBLE I**

**1:1:0**

Elective. Performance of music literature for small vocal, woodwind, brass, string, and percussion ensembles. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Credit, one hour.

### **MUSC-104. CHAMBER ENSEMBLE II**

**1:1:0**

Elective. Performance of music literature for small vocal, woodwind, brass, string, and percussion ensembles. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Credit, one hour.

### **MUSC-107. CHORUS I**

**1:2:0**

A study of choral works with emphasis on reading, diction, tone quality, interpretation, and aesthetics. Attention will be given to the languages and cultures associated with the particular choral literature, i.e., English and dialects used in Negro Spirituals, Latin, Italian, German, and French. There is a laboratory fee.

Credit, one hour.

### **MUSC-108. CHORUS II**

**1:2:0**

A study of choral works with emphasis on reading, diction, tone quality, interpretation, and aesthetics. Attention will be given to the languages and cultures associated with the particular choral literature, i.e., English and dialects used in Negro Spirituals, Latin, Italian, German, and French. There is a laboratory fee.

Credit, one hour.

### **MUSC-109. INTRODUCTION TO MUSIC TECHNOLOGY**

**1:1:0**

The course exposes all music majors, including students interested in the music industry discipline, to music technology and its wide range of applications (hardware controllers and interfaces; educational, recording, and notation software). An overview of Microsoft Office and its database, word-processing, and PowerPoint functions is also included.

Credit, one hour.

### **MUSC-110. INTRODUCTION TO MUSIC THEORY**

**3:4:0**

An introduction to music theory and music notation for students with little or no background in music theory. Course offered in Spring Term only.

Credit, three hours.

**MUSC-111. OVERVIEW OF THE MUSIC INDUSTRY****3:3:0**

The introductory course exposes the artist, technician, and business person to the basic concepts, terminology, and trends in the ever-expanding music industry. The course examines the structure of the industry – its systems, practices, rules, and regulations – and then explores the reasons behind various changes in that structure. The topics include: Managers, Agents, and Attorneys; Contracts, Copyrights, Licensing, and Publishing; The Record Business; The Film, Television & Radio Business; Concerts, Touring, and Gigs; and the various careers in the music industry. Credit, three hour.

**MUSC-113. MUSIC THEORY I AND EAR TRAINING****4:4:0**

The study of major and minor scales, intervals, and of primary triads and their inversions. Analyze and compose melodies using simple meter and simple rhythm. Develop basic ear training skills through melodic and rhythmic dictation. Sing melodic exercises in major keys. There is a laboratory fee.

Prerequisites: Music Major. Passing score on Theory Placement Exam or successful completion of MUSC-110 with a "C" or better.

Credit, four hours.

**MUSC-114. MUSIC THEORY II AND EAR TRAINING****4:4:0**

The continued study of major and minor scales, intervals, and of primary triads and their inversions. Analyze and compose melodies using simple meter and simple rhythm. Develop basic ear training skills through melodic, harmonic, and rhythmic dictation. Sing melodic exercises in major and minor keys. There is also a laboratory fee.

Prerequisites: MUSC-113.

Credit, four hours.

**MUSC-115. MARCHING BAND I****1:5:6**

Marching band. Formation drill and the techniques of football half-time shows. Five (5) meetings per week. Lab Fee.

Credit, one hour.

**MUSC-116. CONCERT BAND II****1:3:6**

Study of concert literature, performance techniques, and repertoire. Three (3) meetings per week. Lab Fee.

Credit, one hour.

**MUSC-120. PIANO CLASS I****1:2:0**

The course is designed for music majors/minors whose principal instrument is not piano, and to teach functional piano, basic keyboard techniques, and the performance of keyboard compositions at a very elementary level. Lab Fee.

Prerequisites: Music major or Music minor.

Credit, one hour.

**MUSC-121. PIANO CLASS II****1:2:0**

The course is a continuation of developing students' functional piano skills, basic keyboard techniques, and the performance of keyboard compositions. There is a laboratory fee.

Prerequisites: MUSC-120.

Credit, one hour.

**MUSC-125. CLASS PIANO (FOR NON-MAJORS)****1:1:0**

The course introduces students to the fundamentals of piano pedagogy, e.g., finger action, wrist position, primary chords, scales, and beginning piano repertoire. For non-Music majors. There is also a laboratory fee.

Credit, one hour.

**MUSC-126. WOODWIND TECHNIQUES AND METHODS I****1:2:0**

Intended for music education majors, this course is designed to impart basic woodwind instrument performance and pedagogical techniques and skills required for students intending to teach instrumental music at the elementary, middle, and high school levels. There is also a laboratory fee.

Prerequisites: Consent of the Instructor required for non-Music Education majors.

Credit, one hour.

**MUSC-128. BRASS TECHNIQUES AND METHODS I****1:2:0**

Intended for music education majors, this course is designed to impart basic brass instrument performance and pedagogical techniques and skills required for students intending to teach instrumental music at the elementary, middle, and high school levels. There is also a laboratory fee.

Prerequisites: Consent of the Instructor required for non-Music Education majors.

Credit, one hour.

**MUSC-130. STRING TECHNIQUES AND METHODS I****1:2:0**

Intended for music education majors, this course is designed to impart basic orchestral string instrument performance and pedagogical techniques and skills required for students intending to teach instrumental music at the elementary, middle, and high school levels. There is also a laboratory fee.

Prerequisites: Consent of the Instructor required for non-Music Education majors.

Credit, one hour.

**MUSC-132. PERCUSSION TECHNIQUES AND METHODS I****1:2:0**

Intended for music education majors, this course is designed to impart basic percussion instrument performance and pedagogical techniques and skills required for students intending to teach instrumental music at the elementary, middle, and high school levels. There is also a laboratory fee.

Prerequisites: Consent of the Instructor required for non-Music Education majors.

Credit, one hour.

**MUSC-134. VOCAL TECHNIQUES AND METHODS****1:1:0**

Basic vocal techniques and methods for the production of optimum sound. Emphasis on breathing techniques, vocalizes, and vocal literature.

Credit, one hour.

**MUSC-135. APPLIED PIANO I****1:1:0**

Applied Piano. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is also a laboratory fee.

Credit, one hour.

**MUSC-136. APPLIED PIANO II****1:1:0**

Applied Piano. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-137. APPLIED MUSIC INDUSTRY I****1:1:0**

The course allows students to have private and guided study with a music industry instructor. There are three (3) possible areas of focus, as determined by the instructor's assessment of the student's primary music industry interest: Music Composition; Music Business; and Music Recording/Technology. Each semester, the student and instructor will determine the specific area of music industry focus, agree upon a final project, and map out a set of weekly tasks to achieve the final project.

Credit, one hour.

**MUSC-138. APPLIED MUSIC INDUSTRY II****1:1:0**

The course allows students to have private and guided study with a music industry instructor. There are three (3) possible areas of focus, as determined by the instructor's assessment of the student's primary music industry interest: Music Composition; Music Business; and Music Recording/Technology. Each semester, the student and instructor will determine the specific area of music industry focus, agree upon a final project, and map out a set of weekly tasks to achieve the final project.

Credit, one hour.

**MUSC-145. APPLIED VOICE I****1:1:0**

Applied Voice. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-146. APPLIED VOICE II****1:1:0**

Applied Voice. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-155. JAZZ ENSEMBLE I****1:0:2**

Performance of jazz music in both small and large ensembles. Instruction will be provided in improvisation and ensemble performance techniques for various styles of jazz from the Swing Era to contemporary styles. There is a laboratory fee.

Prerequisites: Consent of the Instructor.

Credit, one hour.

**MUSC-156. JAZZ ENSEMBLE II****1:0:2**

Performance of jazz music in both small and large ensembles. Instruction will be provided in improvisation and ensemble performance techniques for various styles of jazz from the Swing Era to contemporary styles. There is a laboratory fee.

Prerequisites: Consent of the Instructor.

Credit, one hour.

**MUSC-165A. APPLIED HIGH BRASS I****1:1:0**

Applied Trumpet & Horn. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.



**MUSC-165B. APPLIED LOW BRASS I****1:1:0**

Applied Trombone, Euphonium/Baritone/Tuba. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-166A. APPLIED HIGH BRASS II****1:1:0**

Applied Trumpet & Horn. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-166B. APPLIED LOW BRASS II****1:1:0**

Applied Trombone, Euphonium/Baritone/Tuba. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is also a laboratory fee.

Credit, one hour.

**MUSC-175. APPLIED WOODWINDS I****1:1:0**

Applied Woodwinds. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-176. APPLIED WOODWINDS II****1:1:0**

Applied Woodwinds. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-185. APPLIED PERCUSSION I****1:1:0**

Applied Percussion. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-186. APPLIED PERCUSSION II****1:1:0**

Applied Percussion. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-191. UNIVERSITY SEMINAR I – MUSIC****1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

**MUSC-192. UNIVERSITY SEMINAR II – MUSIC****1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

**MUSC-195A. APPLIED ORCHESTRAL STRINGS I****1:1:0**

Applied Orchestral Strings: Violin, Viola, Cello, String Bass. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-195B. APPLIED GUITAR STRINGS I****1:1:0**

Applied Strings: Guitar. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-196A. APPLIED ORCHESTRAL STRINGS II****1:1:0**

Applied Orchestral Strings: Violin, Viola, Cello, String Bass. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-196B. APPLIED GUITAR STRINGS II****1:1:0**

Applied Strings: Guitar. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-197. INTRODUCTION TO ELECTRONIC MUSIC****3:3:0**

The electronic music course will offer a three-way approach to increase the student's knowledge of computer generated music. The student will be instructed in the fundamentals of sound synthesis; the creation of instrumental sounds from digital and electronic information. The course will teach digital sequential; that is the manipulation of performance data (i.e., dynamics, technique, articulation, and composition) to make a completed audio song or performance. The course will teach computer-aided notation; that is transferring performance information into hard copy score, in standard musical notation, as well as multi-track recording techniques.

Credit, three hours.

**MUSC-201. INTEGRATING MUSIC IN THE ELEMENTARY SCHOOL CURRICULUM****3:3:0**

The course seeks to develop elementary education majors' musical skills and knowledge of various teaching methodologies that are appropriate for integrating musical concepts in elementary school subjects.

Credit, three hours.

**MUSC-203. CHAMBER ENSEMBLE III****1:1:0**

Elective. Performance of music literature for small vocal, woodwind, brass, string, and percussion ensembles. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee. .

Credit, one hour.

**MUSC-204. CHAMBER ENSEMBLE IV****1:1:0**

Elective. Performance of music literature for small vocal, woodwind, brass, string, and percussion ensembles. Instruction will be provided in performance techniques and focused on the chamber music of various stylistic periods. There is a laboratory fee.

Credit, one hour.

**MUSC-207. CHORUS III****1:2:0**

A study of choral works with emphasis on reading, diction, tone quality, interpretation, and aesthetics. Attention will be given to the languages and cultures associated with the particular choral literature, i.e., English and dialects used in Negro Spirituals, Latin, Italian, German, and French. There is a laboratory fee.

Credit, one hour.

**MUSC-208. CHORUS IV****1:2:0**

A study of choral works with emphasis on reading, diction, tone quality, interpretation, and aesthetics. Attention will be given to the languages and cultures associated with the particular choral literature, i.e., English and dialects used in Negro Spirituals, Latin, Italian, German, and French. There is a laboratory fee.

Credit, one hour.

**MUSC-209. SONG WRITING****3:3:0**

The course is fundamental in helping the serious music industry student understand the construction and development process involved with today's popular song. Students will gain a sufficient background in values to work in a variety of environments and ever-changing situations of artistic demands. By studying the well-known masterpieces of the songwriter's art, students will develop the analytical skills necessary to recognize and talk about quality elements in musical and lyrical structure.

Credit, three hours.

**MUSC-212. SIGHT READING AND ADVANCED RHYTHM****1:1:0**

A course concentrating on the concepts and practical application of rhythm reading, with particular focus on developing the ability to sight-read rhythms. Includes study of simple, compound, and irregular meters, with an introduction to hemiolas and polyrhythm.

Credit, one hour. Open to upper-class music majors.

**MUSC-213. MUSIC THEORY III AND EAR TRAINING****4:4:0**

The continued study of diatonic harmony and ear training. The continuation of ear training skills developed through singing and dictation drills. The introduction of chromatic harmony, Neapolitan, Italian, German, and French sixth chords. There is a laboratory fee.

Prerequisites: MUSC-114.

Credit, four hours.

**MUSC-214. MUSIC THEORY IV AND EAR TRAINING****4:4:0**

A continuation of Music Theory and Ear Training III. Modal singing and dictation studies. Study intervals, two- and three-part dictation. The study of diatonic and chromatic harmony, Neapolitan sixth chord the Italian sixth chord, German sixth chord, and French sixth chord. There is a laboratory fee.

Prerequisites: MUSC-213.

Credit, four hours.

**MUSC-215. MARCHING BAND III****1:5:6**

Marching band. Formation drill and the techniques of football half-time shows. Five (5) meetings per week. There is a laboratory fee.

Credit, one hour.

**MUSC-216. CONCERT BAND IV****1:3:6**

A study of concert literature, performance techniques, and repertoire. Three (3) meetings per week. There is a laboratory fee.

Credit, one hour.

**MUSC-220. PIANO CLASS III****1:2:0**

Emphasis is placed on the development of students' functional piano techniques and piano keyboard compositions at the elementary level. Students are expected to acquire additional piano performance skills through technique, music reading, and harmonization. There is a laboratory fee.

Prerequisites: MUSC-121.

Credit, one hour.

**MUSC-221. PIANO CLASS IV****1:2:0**

The course is a continuation of Music 220 (Piano Class III). Additional attention is given to developing students' comprehensive piano performance skills. There is a laboratory fee.

Prerequisites: MUSC-220.

Credit, one hour.

**MUSC-223. MUSIC RECORDING I****3:3:0**

The introductory course exposes music majors, especially those interested in the music industry, and Non-Mass Communications majors (Mass Comm students are required to take sound production courses unique to the mass communications industry) to the basic principles of audio-frequency, amplitude, and timbre; the technical characteristics of audio systems-monitors, mixers, microphones, and digital audio workstation; the primary concepts of music production and recording-audio signal flow, multi-tracking, editing, signal processing, mixing, and mastering; and the business of audio recording.

Credit, three hour.

**MUSC-224. MUSIC RECORDING II****3:3:0**

The course introduces the music industry student to the computer application of Pro Tools. It is considered the current industry standard program for recording and also the most powerful DAW (Digital Audio Workstation). The course covers the entire program including the newest features available in Pro Tools 8.

Credit, three hour.

**MUSC-227. STUDENT RUN COMPANY PROJECT I - MUSIC****1:1:0**

A SRCP (Student Run Company Project) is an in-house learning structure where students are the only ones involved in operating the company. In most internships, the student usually views from afar the key operations that go on in a company, and years would pass before one would actually be in charge of A & R, Marketing, and Production, etc. The SRCP is an experience-oriented structure that immerses the student into the core of the operations.

Credit, one hour.

**MUSC-228. STUDENT RUN COMPANY PROJECT II - MUSIC****1:1:0**

A SRCP (Student Run Company Project) is an in-house learning structure where students are the only ones involved in operating the company. In most internships, the student usually views from afar the key operations that go on in a company, and years would pass before one would actually be in charge of A & R, Marketing, and Production, etc. The SRCP is an experience-oriented structure that immerses the student into the core of the operations.

Credit, one hour.

**MUSC-235. APPLIED PIANO III****1:1:0**

Applied Piano. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-236. APPLIED PIANO IV****1:1:0**

Applied Piano. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-237. APPLIED MUSIC INDUSTRY III****1:1:0**

The course allows students to have private and guided study with a music industry instructor. There are three (3) possible areas of focus, as determined by the instructor's assessment of the student's primary music industry interest: Music Composition; Music Business; and Music Recording/Technology. Each semester, the student and instructor will determine the specific area of music industry focus, agree upon a final project, and map out a set of weekly tasks to achieve the final project.

Credit, one hour.

**MUSC-238. APPLIED MUSIC INDUSTRY IV****1:1:0**

The course allows students to have private and guided study with a music industry instructor. There are three (3) possible areas of focus, as determined by the instructor's assessment of the student's primary music industry interest: Music Composition; Music Business; and Music Recording/Technology. Each semester, the student and instructor will determine the specific area of music industry focus, agree upon a final project, and map out a set of weekly tasks to achieve the final project.

Credit, one hour.

**MUSC-245. APPLIED VOICE III****1:1:0**

Applied Voice. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-246. APPLIED VOICE IV****1:1:0**

Applied Voice. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is also a laboratory fee.

Credit, one hour.

**MUSC-255. JAZZ ENSEMBLE III****1:0:2**

Performance of jazz music in both small and large ensembles. Instruction will be provided in improvisation and ensemble performance techniques for various styles of jazz from the Swing Era to contemporary styles. Lab Fee.

Prerequisites: Consent of the Instructor.

Credit, one hour.

**MUSC-256. JAZZ ENSEMBLE IV****1:0:2**

Performance of jazz music in both small and large ensembles. Instruction will be provided in improvisation and ensemble performance techniques for various styles of jazz from the Swing Era to contemporary styles. Lab Fee.

Prerequisites: Consent of the Instructor.

Credit, one hour.

**MUSC-265A. APPLIED HIGH BRASS III****1:1:0**

Applied Trumpet & Horn. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. Lab Fee.

Credit, one hour.

**MUSC-265B. APPLIED LOW BRASS III****1:1:0**

Applied Trombone, Euphonium/Baritone/Tuba. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-266A. APPLIED HIGH BRASS IV****1:1:0**

Applied Trumpet & Horn. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-266B. APPLIED LOW BRASS IV****1:1:0**

Applied Trombone, Euphonium/Baritone/Tuba. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-275. APPLIED WOODWINDS III****1:1:0**

Applied Woodwinds. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-276. APPLIED WOODWINDS IV****1:1:0**

Applied Woodwinds. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-285. APPLIED PERCUSSION III****1:1:0**

Applied Percussion. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is also a laboratory fee.

Credit, one hour.

**MUSC-286. APPLIED PERCUSSION IV****1:1:0**

Applied Percussion. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-295A. APPLIED ORCHESTRAL STRINGS III****1:1:0**

Applied Orchestral Strings: Violin, Viola, Cello, String Bass. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-295B. APPLIED GUITAR STRINGS III****1:1:0**

Applied Strings: Guitar. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-296A. APPLIED ORCHESTRAL STRINGS IV****1:1:0**

Applied Orchestral Strings: Violin, Viola, Cello, String Bass. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-296B. APPLIED GUITAR STRINGS IV****1:1:0**

Applied Strings: Guitar. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-300. BASIC CONDUCTING****1:1:0**

As the first semester of a two-semester conducting course sequence, the course addresses basic conducting techniques and prepared students for the vocal (06-309) or instrumental (06-310) Conducting courses. Students will master the full range of basic conducting gestures including beat patterns in all meters, cueing, baton technique, simple score reading/conducting including 4-part chorals, and error detection.

Credit, one hour.

**MUSC-301. ELEMENTARY VOCAL AND INSTRUMENTAL MUSIC METHODS K-8****3:3:0**

The course is designed to present music education majors with appropriate music teaching methods and materials for effective pre-school and elementary and instrumental music teaching.

Credit, three hours.

**MUSC-302. SECONDARY VOCAL AND INSTRUMENTAL MUSIC METHODS 7-12****3:3:0**

The course seeks to develop music education majors' musical skills and knowledge of methods and materials that are appropriate for effective vocal and instrumental music teaching in the secondary schools.

Credit, three hours.

**MUSC-307. CHORUS V****1:2:0**

A study of choral works with emphasis on reading, diction, tone quality, interpretation, and aesthetics. Attention will be given to the languages and cultures associated with the particular choral literature, i.e., English and dialects used in Negro Spirituals, Latin, Italian, German, and French. There is a laboratory fee.

Credit, one hour.

**MUSC-308. CHORUS VI****1:2:0**

A study of choral works with emphasis on reading, diction, tone quality, interpretation, and aesthetics. Attention will be given to the languages and cultures associated with the particular choral literature, i.e., English and dialects used in Negro Spirituals, Latin, Italian, German, and French. There is a laboratory fee.

Credit, one hour.



**MUSC-309. VOCAL CONDUCTING****2:2:0**

The techniques of conducting choral organizations. Stress is placed upon basic patterns of conducting various meters, expressive and non-expressive gestures, cues, dynamics, and interpretation. There is a laboratory fee. Credit, two hours.

**MUSC-310. INSTRUMENTAL CONDUCTING****2:2:0**

The techniques of conducting with the baton and problems of score reading and transposition are stressed. Instruction, demonstration, and practice. The main purpose of this course is to equip students with sufficient knowledge and conducting technique so they can function efficiently as elementary and secondary instrumental conductors. Beat patterns, score reading, and transpositions are emphasized. There is a laboratory fee. Credit, two hours.

**MUSC-315. MARCHING BAND V****1:5:6**

Marching band. Formation drill and the techniques of football half-time shows. Five (5) meetings per week. There is a laboratory fee. Credit, one hour.

**MUSC-316. CONCERT BAND VI****1:3:6**

Study of concert literature, performance techniques, and repertoire. Three (3) meetings per week. There is a laboratory fee. Credit, one hour.

**MUSC-318. FORM AND ANALYSIS****2:2:0**

A study of music structure and the forms of instrumental and vocal music. The application of analytical techniques. Prerequisites: Minimum grade of "C" in MUSC-113, MUSC-114, MUSC-213, MUSC-214. Credit, two hours.

**MUSC-320. MUSIC EDUCATION LAB****1:1:0**

The lab course is designed to be flexible in nature, allowing students under supervision of the lab instructor and other music faculty members, to synthesize, perfect and practice general music classroom and ensemble course teaching and conducting skills in an environment mimicking a wide variety of possible teaching situations. Students in the course will provide each other with real world teaching opportunities playing, for example, their techniques and methods course instruments in the class, thus mimicking young, inexperienced student ensembles they will confront in the profession. Frequent video- taping and self-reflection/analysis of the students functioning in a wide variety of practice teaching situations will help students hone their practical teaching skills learned in the existing battery of music education skills course.

Prerequisites: Junior standing, 06-300, 06-301, and concurrent enrollment in either MUS-309 or MUSC-310, and MUSC-302.

Credit, one hour.

**MUSC-321. COUNTERPOINT I****2:2:0**

Students will analyze and write polyphonic compositions, according to certain rules, by adding one or more parts to a given melody.

Prerequisites: MUSC-113, MUSC-114, MUSC-213, MUSC-214.

Credit, two hours.

**MUSC-322. COUNTERPOINT II****2:2:0**

Students will analyze and compose music using both single and double counterpoint in which parts may be inverted.

Prerequisites: MUSC-321.

Credit, two hours.

**MUSC-323. MUSIC HISTORY AND LITERATURE I****3:3:0**

A study of the history and literature of music in the Western World through discussion, performance, analysis, and recording. The first semester includes the study of music from antiquity through the Renaissance period.  
Credit, two hours.

**MUSC-324. MUSIC HISTORY AND LITERATURE II****3:3:0**

Romantic, Post-Romantic, Impressionistic and 20th Century Eras to the present.  
Prerequisites: MUSC-323.  
Credit, three hours.

**MUSC-327. STUDENT RUN COMPANY PROJECT III – MUSIC****1:1:0**

A SRCP (Student Run Company Project) is an in-house learning structure where students are the only ones involved in operating the company. In most internships, the student usually views from afar the key operations that go on in a company, and years would pass before one would actually be in charge of A & R, Marketing, and Production, etc. The SRCP is an experience-oriented structure that immerses the student into the core of the operations.  
Credit, one hour.

**MUSC-328. STUDENT RUN COMPANY PROJECT IV – MUSIC****1:1:0**

A SRCP (Student Run Company Project) is an in-house learning structure where students are the only ones involved in operating the company. In most internships, the student usually views from afar the key operations that go on in a company, and years would pass before one would actually be in charge of A & R, Marketing, and Production, etc. The SRCP is an experience-oriented structure that immerses the student into the core of the operations.  
Credit, one hour.

**MUSC-331. ORCHESTRATION AND ARRANGING****2:2:0**

The course teaches students how to orchestrate and arrange for a wide variety of instrumental and vocal ensembles of varying levels of expertise and complexity, from young student ensembles to more advanced ensembles. Using state-of-the-art notational software, the course is especially targeted at future music educators, providing them with the skills needed to arrange, orchestrate, and/or edit new and existing compositions for use with student ensembles of varying degrees of advancement and instrumentation.  
Prerequisites: MUSC-104, MUSC-214  
Credit, two hours.

**MUSC-335. APPLIED PIANO V****1:1:0**

Applied Piano. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.  
Credit, one hour.

**MUSC-336. APPLIED PIANO VI****1:1:0**

Applied Piano. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.  
Credit, one hour.

**MUSC-337. APPLIED MUSIC INDUSTRY V****1:1:0**

The course allows students to have private and guided study with a music industry instructor. There are three (3) possible areas of focus, as determined by the instructor's assessment of the student's primary music industry interest: Music Composition; Music Business; and Music Recording/Technology. Each semester, the student and instructor will determine the specific area of music industry focus, agree upon a final project, and map out a set of weekly tasks to achieve the final project.

Credit, one hour.

**MUSC-338. APPLIED MUSIC INDUSTRY VI****1:1:0**

The course allows students to have private and guided study with a music industry instructor. There are three (3) possible areas of focus, as determined by the instructor's assessment of the student's primary music industry interest: Music Composition; Music Business; and Music Recording/Technology. Each semester, the student and instructor will determine the specific area of music industry focus, agree upon a final project, and map out a set of weekly tasks to achieve the final project.

Credit, one hour.

**MUSC-345. APPLIED VOICE V****1:1:0**

Applied Voice. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-346. APPLIED VOICE VI****1:1:0**

Applied Voice. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-350. MUSIC PUBLISHING****3:3:0**

This course examines the principles and practices of modern music publishing. Students will be able to complete copyright registration forms, set up a publishing company, as well as analyze various domestic and foreign publishing agreements that are current in the industry. Topics include the 1976 Copyright Act, intellectual property, catalog development, international co-publishing, licensing, and performance, mechanical, synchronization, and print royalties.

Credit, three hours.

**MUSC-351. MUSIC MARKETING AND PROMOTION****3:3:0**

This course thoroughly examines how the recording industry delivers product from the artist to the consumer. Topics include market analysis, distribution patterns, domestic and international licensing, trade charts, marketing and promotion strategies, radio airplay, campaign development, pricing, and methods of merchandising.

Credit, three hours.

**MUSC-355. JAZZ ENSEMBLE V****1:0:2**

Performance of jazz music in both small and large ensembles. Instruction will be provided in improvisation and ensemble performance techniques for various styles of jazz from the Swing Era to contemporary styles. There is a laboratory fee.

Prerequisites: Consent of the Instructor.

Credit, one hour.

**MUSC-356. JAZZ ENSEMBLE VI****1:0:2**

Performance of jazz music in both small and large ensembles. Instruction will be provided in improvisation and ensemble performance techniques for various styles of jazz from the Swing Era to contemporary styles. There is a laboratory fee.

Prerequisites: Consent of the Instructor.

Credit, one hour.

**MUSC-365A. APPLIED HIGH BRASS V****1:1:0**

Applied Trumpet & Horn. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-365B. APPLIED LOW BRASS V****1:1:0**

Applied Trombone, Euphonium/Baritone/Tuba. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-366A. APPLIED HIGH BRASS VI****1:1:0**

Applied Trumpet & Horn. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-366B. APPLIED LOW BRASS VII****1:1:0**

Applied Trombone, Euphonium/Baritone/Tuba. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-375. APPLIED WOODWINDS V****1:1:0**

Applied Woodwinds. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-376. APPLIED WOODWINDS VI****1:1:0**

Applied Woodwinds. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-385. APPLIED PERCUSSION V****1:1:0**

Applied Percussion. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-386. APPLIED PERCUSSION VI****1:1:0**

Applied Percussion. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-390A. INDEPENDENT STUDY: SELECTED TOPICS IN MUSIC****1:1:0**

Students will learn to sing and become articulate in the Italian language. They are expected to coordinate their studies with the Vocal instructors.

Credit, one hour.

**MUSC-390B. INDEPENDENT STUDY: SELECTED TOPICS IN MUSIC****1:1:0**

Italian studies will be coordinated with the Vocal instructors. Students will be required to perform Italian Arias for the Music Performance Seminar.

Credit, one hour.

**MUSC-395A. APPLIED ORCHESTRAL STRINGS V****1:1:0**

Applied Orchestral Strings: Violin, Viola, Cello, String Bass. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-395B. APPLIED GUITAR STRINGS V****1:1:0**

Applied Strings: Guitar. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-396A. APPLIED ORCHESTRAL STRINGS VI****1:1:0**

Applied Orchestral Strings: Violin, Viola, Cello, String Bass. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is also a laboratory fee.

Credit, one hour.

**MUSC-396B. APPLIED GUITAR STRINGS VI****1:1:0**

Applied Strings: Guitar. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Lab Fee.

Credit, one hour.

**MUSC-402. MUSIC INDUSTRY INTERNSHIP****3:3:0**

Music Industry Internship positions will include as many sectors of the music industry as are practically available in local, regional, and national markets. The goal is for students to obtain real world instruction, experience, and interaction. An organized internship program under the supervision of music industry faculty involves regular consultation between the student and a supervising faculty member.

Credit, three hours.

**MUSC-403. ELEMENTARY AND SECONDARY INSTRUMENTAL METHODS K-12****3:3:0**

Students will study instrumental methods that are suitable for the instruction of students in both the elementary and secondary school band. Emphasis on woodwind and brass fingerings and tone production, construction of lesson plans, and class management.

Credit, three hours.

**MUSC-407. CHORUS VII****1:2:0**

A study of choral works with emphasis on reading, diction, tone quality, interpretation, and aesthetics. Attention will be given to the languages and cultures associated with the particular choral literature, i.e., English and dialects used in Negro Spirituals, Latin, Italian, German, and French. There is a laboratory fee.

Credit, one hour.

**MUSC-408. CHORUS VIII****1:2:0**

A study of choral works with emphasis on reading, diction, tone quality, interpretation, and aesthetics. Attention will be given to the languages and cultures associated with the particular choral literature, i.e., English and dialects used in Negro Spirituals, Latin, Italian, German, and French. There is a laboratory fee.

Credit, one hour.

**MUSC-410. ORCHESTRATION****3:3:0**

A study of the fundamentals of writing for orchestral instrumentals. Registration, instrumentation, voicings, and technical limitations are considered. Problems of writing for the various instrumental combinations with reference to the needs of the public schools are emphasized.

Prerequisites: MUSC-214.

Credit, three hours.

**MUSC-412. VOCAL ARRANGING****2:2:0**

Methods of arranging for vocal ensembles. Music editing techniques.

Prerequisites: MUSC-318.

Credit, two hours.

**MUSC-415. MARCHING BAND VII****1:5:6**

Marching band. Formation drill and the techniques of football half-time shows. Five (5) meetings per week. There is a laboratory fee.

Credit, one hour.

**MUSC-416. CONCERT BAND VIII****1:3:6**

Study of concert literature, performance techniques, and repertoire. Three (3) meetings per week. There is a laboratory fee.

Credit, one hour.

**MUSC-427. STUDENT RUN COMPANY PROJECT V – MUSIC****1:1:0**

A SRCP (Student Run Company Project) is an in-house learning structure where students are the only ones involved in operating the company. In most internships, the student usually views from afar the key operations that go on in a company, and years would pass before one would actually be in charge of A & R, Marketing, and Production, etc. The SRCP is an experience-oriented structure that immerses the student into the core of the operations.

Credit, one hour.

**MUSC-428. STUDENT RUN COMPANY PROJECT VI – MUSIC****1:1:0**

A SRCP (Student Run Company Project) is an in-house learning structure where students are the only ones involved in operating the company. In most internships, the student usually views from afar the key operations that go on in a company, and years would pass before one would actually be in charge of A & R, Marketing, and Production, etc. The SRCP is an experience-oriented structure that immerses the student into the core of the operations.

Credit, one hour.

**MUSC-435. APPLIED PIANO VII****1:1:0**

Applied Piano. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-436. APPLIED PIANO VIII-SR CAPSTONE****1:1:0**

Applied Piano. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-437. APPLIED MUSIC INDUSTRY VII****1:1:0**

The course allows students to have private and guided study with a music industry instructor. There are three (3) possible areas of focus, as determined by the instructor's assessment of the student's primary music industry interest: Music Composition; Music Business; and Music Recording/Technology. Each semester, the student and instructor will determine the specific area of music industry focus, agree upon a final project, and map out a set of weekly tasks to achieve the final project.

Credit, one hour.

**MUSC-438. APPLIED MUSIC INDUSTRY VIII – SR CAPSTONE****1:1:0**

The course allows students to have private and guided study with a music industry instructor. There are three (3) possible areas of focus, as determined by the instructor's assessment of the student's primary music industry interest: Music Composition; Music Business; and Music Recording/Technology. Each semester, the student and instructor will determine the specific area of music industry focus, agree upon a final project, and map out a set of weekly tasks to achieve the final project.

Credit, one hour.

**MUSC-445. APPLIED VOICE VII****1:1:0**

Applied Voice. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-446. APPLIED VOICE VII I –SR CAPSTONE****1:1:0**

Applied Voice. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-455. JAZZ ENSEMBLE VII****1:0:2**

Performance of jazz music in both small and large ensembles. Instruction will be provided in improvisation and ensemble performance techniques for various styles of jazz from the Swing Era to contemporary styles. There is a laboratory fee.

Prerequisites: Consent of the Instructor.

Credit, one hour.

**MUSC-456. JAZZ ENSEMBLE VIII****1:0:2**

Performance of jazz music in both small and large ensembles. Instruction will be provided in improvisation and ensemble performance techniques for various styles of jazz from the Swing Era to contemporary styles. There is a laboratory fee.

Prerequisites: Consent of the Instructor.

Credit, one hour.

**MUSC-465A. APPLIED HIGH BRASS VII****1:1:0**

Applied Trumpet & Horn. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-465B. APPLIED LOW BRASS VII****1:1:0**

Applied Trombone, Euphonium/Baritone/Tuba. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-466A. APPLIED HIGH BRASS VIII – SR CAPSTONE****1:1:0**

Applied Trumpet & Horn. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.



**MUSC-466B. APPLIED LOW BRASS VIII – SR CAPSTONE****1:1:0**

Applied Trombone, Euphonium/Baritone/Tuba. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is also a laboratory fee.

Credit, one hour.

**MUSC-475. APPLIED WOODWINDS VII****1:1:0**

Applied Woodwinds. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-476. APPLIED WOODWINDS VIII – SR CAPSTONE****1:1:0**

Applied Woodwinds. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-485. APPLIED PERCUSSION VII****1:1:0**

Applied Percussion. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is also a laboratory fee.

Lab Fee.

Credit, one hour.

**MUSC-486. APPLIED PERCUSSION VIII – SR CAPSTONE****1:1:0**

Applied Percussion. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is also a laboratory fee.

Credit, one hour.

**MUSC-490A. INDEPENDENT STUDY: SELECTED TOPICS IN MUSIC****1:1:0**

Italian studies will be coordinated with the Vocal instructors. Students will be required to perform Italian Arias and Italian Literature for the Music Performance Seminar.

Credit, one hour.

**MUSC-490B. INDEPENDENT STUDY: SELECTED TOPICS IN MUSIC****1:1:0**

Italian studies will be coordinated with the Vocal instructors. Students will be required to perform excerpts from Italian Operas for the Music Performance Seminar.

Credit, one hour.

**MUSC-495A. APPLIED ORCHESTRAL STRINGS VII****1:1:0**

Applied Orchestral Strings: Violin, Viola, Cello, and String Bass. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-495B. APPLIED GUITAR STRINGS VII****1:1:0**

Applied Strings: Guitar. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-496A. APPLIED ORCHESTRAL STRINGS VIII – SR CAPSTONE****1:1:0**

Applied Orchestral Strings: Violin, Viola, Cello, String Bass. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

**MUSC-496B. APPLIED GUITAR STRINGS VIII-SR CAPSTONE****1:1:0**

Applied Strings: Guitar. Music majors wishing to take applied music courses should begin with the lowest 100-level course number. Applied music courses are designed for Music Majors. Applied music courses include: progressive technical studies, scales, exercises, repertoire from varied genre, and mandatory performances on music seminars. Upon completion of the 400 level series of applied courses, a senior recital (capstone) is required. There is a laboratory fee.

Credit, one hour.

## DEPARTMENT OF PSYCHOLOGY

**Chair:** Scott-Jones

**Associate Professors:** Banerjee, Friel, Rogers

**Assistant Professors:** Allen, Pulverman, Rich, Scott-Jones

The Department of Psychology recognizes and supports the overall mission of Delaware State University by providing students with the necessary education for entry level positions in the human service related fields and preparing students for graduate studies.. More specifically, the psychology program is designed to empower and affirm undergraduate students through broad-based training in the foundations of psychology, which emphasizes the need to understand human behavior through critical thinking and scientific endeavors. The Department recognizes and supports the mission of the American Psychological Association (APA) which is “to advance the creation, communication and application of psychological knowledge to benefit society and improve people’s lives” [APA. (2009). APA Mission Statement. Retrieved July 27, 2009 from <http://www.apa.org/about/>].

### Major

Anyone wishing to major in Psychology must complete the General Education Program required of all students. The degree in Psychology requires fifty-seven (57) credit hours of Psychology courses as follows: 201, 206, 207, 308, 316, 322, 323, 400, 402, 413, 416, 422, 425, 435, and fifteen (15) hours of Psychology electives. A minimum grade of “C” is required in each of these courses. Thirteen (13) additional credit hours are required as follows: BIOL 103, INFO 101 or MIS 105, PHIL 201, and ENGL 202 or 206. Majors are encouraged to use their free electives, thirteen (13) credit hours, to specialize in an area of Psychology that interests them, to take courses in other departments to broaden their academic background, and to consider a minor in another field of study. An overall total of 120 credit hours is required for a Bachelor of Science degree in Psychology.

### Minor

Majors from any department are welcome to minor in psychology. The twenty-one (21) credit hours required for a psychology minor are: 201, 207, 308, 316, 322, 402, and 400 or 413. A student minoring in psychology may take additional psychology courses for which they meet the prerequisites.

B.S. Degree in Psychology  
Effective Fall 2011

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101*	English Composition I	3	ENGL-102*	English Composition II	3
INFO-101* / MIS-105*	Applying Computers or Microcomputer Apps	3	MVSC-101*	Lifetime Fitness and Wellness	2
MTSC-121*	College Algebra	3	BIOL-103*	Human Biology	4
HIST	History (choose one: 101 <sup>2</sup> , 102 <sup>2</sup> ,201,202,203 <sup>1</sup> ,204 <sup>1</sup> ,205 <sup>2</sup> )	3	SCCJ-101*	Introduction to Sociology	3
PSYC-191*	University Seminar I	1	PSYC-192*	University Seminar II	1
PSYC-201*	Intro to General Psychology	3	PSYC-206*	Applied Psychology	3
	Total Credits	16		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-	World Lit I (201 <sup>2</sup> ) or African-Amer Lit I (205 <sup>1</sup> )	3	ENGL-	World Lit II (202 <sup>2</sup> ) or African-Amer Lit II (206 <sup>1</sup> )	3
ENGL-200*	Speech	3	PSYC-207*	Scientific Method	3
PSYC-322*	Elementary Statistics	3	PSYC-323*	Advanced Statistics	3
PHIL-201*	Introduction to Philosophy <sup>2</sup>	3		Gen Ed Nat Scien Elect w/lab	3
	Foreign Language I <sup>2</sup>	3		Foreign Language II <sup>2</sup>	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
GLOB-395*	Global Societies	3	PSYC-402*	Abnormal Psychology	3
PSYC-308*	Personality	3	PSYC-413*	Psychology of Learning	3
PSYC-316*	Developmental Psychology	3	PSYC-416*	Social Psychology	3
PSYC-400*	Experimental Psychology	3	PSYC- *	Psychology Elective	3
PSYC- *	Psychology Elective	3		Elective	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PSYC-422*	History and Systems**	3	PSYC-425*	Senior Research Seminar***	3
PSYC-435*	Practica in Applied Psych	3	PSYC- *	Psychology Elective	3
PSYC- *	Psychology Elective	3	PSYC- *	Psychology Elective	3
	Electives	3		Electives	4
	Elective	3			
	Total Credits	15		Total Credits	13
<b>TOTAL CREDIT HOURS REQUIRED FOR GRADUATION IS 120.</b>					
* Must earn a grade of –C– or better or repeat the course ** Writing Intensive *** Senior Capstone <sup>1</sup> Satisfies African-American Experience A-t-C Requirement <sup>2</sup> Satisfies half of the Multicultural A-t-C Requirement					

PROGRAM/MAJOR: **PSYCHOLOGY**

Across-the-Curriculum List (A-t-C)

Department: **PSYCHOLOGY**

Effective: **Fall 2011**

**Core Courses (ENGL 101, ENGL 102, ENGL 200, MVSC 101, GLOB 395, University Seminars)  
must not be listed as an A-t-C outcome below**

**African-American Experience A-t-C  
outcome (3 credits) – Choose one:**

- ☐ Any Approved African-American Experience Course  
OR  
☒ One of the following:

Course	Course Name
ENGL 205	African-American Lit I
ENGL 206	African-American Lit II
HIST 203	Afri-Amer Hist to 1865
HIST 204	Afri-Amer Hist from 1865

**Multicultural A-t-C outcome (6 credits):**

Choose one of the below options

- ☐ Any two Approved Multicultural Courses  
OR  
☒ Two of the following:

Course	Course Name
ENGL 201	World Literature I
ENGL 202	World Literature II
HIST 205	Themes in World History
xxx-xxx	Foreign Language I
xxx-xxx	Foreign Language II

A-t-C Outcome	Courses
Reading/Speaking/Listening	PSYC 201 Introduction to General Psychology PSYC 316 Developmental Psychology PSYC 425 Senior Research Seminar
Self-Evaluation	PSYC 201 Introduction to General Psychology PSYC 435 Practica in Applied Psychology
Wellness	PSYC 201 Introduction to General Psychology
Information Literacy	PSYC 400 Experimental Psychology PSYC 422 History and Systems of Psychology PSYC 425 Senior Research Seminar
Computer Competency	INFO 101 Applying Computers OR MIS 105 Microcomputer Applications
Writing in Major - Outside the Capstone	PSYC 422 History and Systems of Psychology
Quantitative Reasoning	PSYC 322 Elementary Statistics PSYC 323 Advanced Statistics
Global Issues	SCCJ 101 Introduction to Sociology

## **PSYCHOLOGY (PSYC) (36)**

### **PSYC-191. UNIVERSITY SEMINAR I – PSYCHOLOGY**

**1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **PSYC-192. UNIVERSITY SEMINAR II – PSYCHOLOGY**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **PSYC-201. INTRODUCTION TO GENERAL PSYCHOLOGY**

**3:3:0**

This is a survey course that covers key content areas which comprise the modern science of psychology. Content areas include scientific methods, learning, sensation and perception, human development, abnormal, personality, and social psychology.

Credit, three hours.

### **PSYC-206. APPLIED PSYCHOLOGY**

**3:3:0**

The purpose of this course is to supply students with information and practical skills in several areas of applied psychology. The areas covered will include personal adjustment, organizational and industrial psychology, human engineering, and contemporary social problems. The skills that will be practiced include stress management, communications analysis, assertiveness training, conduct of small group problem-solving sessions, and practice in taking standardized tests, and design and evaluation of research.

Prerequisites: PSYC-201.

Credit, three hours.

### **PSYC-207. SCIENTIFIC METHOD IN PSYCHOLOGY**

**3:3:0**

An examination of the scientific method and its application to the study of behavior.

Prerequisites: PSYC-201.

Credit, three hours.

### **PSYC-208. HEALTH PSYCHOLOGY**

**3:3:0**

The course surveys the broad application of psychology to disease and wellness. Topics include stress, healthy habits, substance abuse, eating disorders, chronic pain, and psychoneuroimmunology.

Prerequisites: PSYC-201.

Credit, three hours.

### **PSYC-216. PSYCHOLOGY OF GENDER**

**3:3:0**

Psychology of Gender is a lower-level, one semester course, which provides an overview of social, cultural, behavioral, biological, and cognitive variables as they relate to the theory and research on gender. This course includes content that will promote an understanding of gender differences at both an individual and societal/cultural context. In addition, this course aims to develop critical thinking.

Prerequisites: PSYC-201.

Credit, three hours.

**PSYC-300. NEUROPSYCHOLOGY**

**3:3:0**

Neuropsychology is an upper-level course that is designed to teach students the brain and behavior relationships. The focus of the course is the clinical presentation of human brain dysfunction. In addition to gaining a basic understanding of neuroanatomy, neurophysiology, assessment techniques, and the philosophical underpinnings associated with neuropsychology. Topics could include split brain studies, language disorders, laterality, perceptual-motor dysfunction, learning and attention disorders, dementia, and treatment issues.

Prerequisites: PSYC-201, BIOL-103.

Credit, three hours.

**PSYC-303. ORGANIZATIONAL AND INDUSTRIAL PSYCHOLOGY**

**3:3:0**

A course designed to provide the student with an overview of the application of behavioral science principles to organizations in general and industry in particular. The following content areas will be covered: 1) Organizational Theory, 2) Decision-Making, 3) Management Decision-Making, 4) Human Motivation in the Work Organization, 5) Organizational Development, 6) Personnel Selection, and 7) Human Engineering.

Prerequisites: PSYC-201.

Credit, three hours.

**PSYC-304. FORENSIC PSYCHOLOGY**

**3:3:0**

The purpose of this course is to supply the student with basic definitions and explanations of deviant behavior applicable to the correctional environment. The student will become familiar with various approaches to the modification and control of deviant behavior. Data will be presented regarding the effectiveness of various rehabilitation programs. A basic description of the criminal justice system and the role of the behavioral scientist in the system will be described.

Prerequisites: PSYC-201.

Credit, three hours.

**PSYC-308. PERSONALITY**

**3:3:0**

Primary emphasis in this course is given to theories of personality and the assessment of personality. Freud's psychoanalytic theory, Jung's analytic theory, Murray's biosocial theory, and social psychological theories are among some of the theories discussed.

Prerequisites: PSYC-201.

Credit, three hours.

**PSYC-316. DEVELOPMENTAL PSYCHOLOGY**

**3:3:0**

The course studies the development of individuals from birth through adolescence including the physical, emotional, intellectual, social, and psychological factors of development.

Prerequisites: PSYC-201.

Credit, three hours.

**PSYC-322. ELEMENTARY STATISTICS**

**3:3:0**

This course covers graphic representation of data, measures of central tendency, variability, introduction to statistical inference, correlation, and linear regression.

Prerequisites: PSYC-201, MTSC-121.

Credit, three hours.

**PSYC-323. ADVANCED STATISTICS.**

**3:3:0**

This course covers experimental design, simple and complex analysis of variance, correlational analyses, and non-parametric statistics.

Prerequisites: PSYC-201, PSYC-322, MTSC-121.

Credit, three hours.

**PSYC-325. STATISTICS FOR THE BEHAVIORAL SCIENCES****3:3:0**

The course covers the conventional methods of data management and analysis for psychology and other behavioral sciences. The concepts of probability, sampling, and causality are framed in relation to the empirical process. Descriptive and inferential statistics will be described as well as basic experimental design.

Prerequisites: PSYC-201, MTSC-121.

Credit, three hours.

**PSYC-345. COGNITIVE PSYCHOLOGY****3:3:0**

The course is an upper-level, one-semester course which provides an overview of the various areas of cognitive psychology, the study of mental processes. The course includes discussions of cognitive research and how it is applied to other areas of psychology (e.g., social psychology, developmental psychology, and clinical, etc.) and to everyday life. In addition, this course aims to develop critical thinking, problem solving, and writing skills.

Prerequisites: PSYC-201, Junior status.

Credit, three hours.

**PSYC-400. EXPERIMENTAL PSYCHOLOGY****3:3:0**

A survey of the principles and methods employed in psychological experiments. Reading and critical analysis of existing experimental literature is emphasized. Students will conduct their own experiments and learn to write the results in APA format.

Prerequisites: PSYC-201, PSYC-207, PSYC-322, PSYC-323, MTSC-121..

Credit, three hours.

**PSYC-402. ABNORMAL PSYCHOLOGY****3:3:0**

A study of mental disorders with emphasis on causes, symptoms, and treatment. Content includes anxiety disorders, mood disorders, schizophrenic disorders, and personality disorders.

Prerequisites: PSYC-201, junior level.

Credit, three hours.

**PSYC-406. MULTI-CULTURAL COUNSELING****3:3:0**

This course will allow students to address similarities and differences among various culturally diverse groups. The course is designed to present an overview of issues and methods that will serve as a guide to developing multicultural competence, which provides the student with the fundamental knowledge, experiences, sensitivity, and attitude necessary to understand, communicate, and to effectively treat culturally diverse populations.

Prerequisites: PSYC-201, junior level.

Credit, three hours.

**PSYC-411. COUNSELING PSYCHOLOGY I****3:3:0**

An overview of guidance and counseling principles and techniques. Instruction includes intensive training in basic listening and interview skills.

Prerequisites: PSYC-201, junior level.

Credit, three hours.

**PSYC-413. PSYCHOLOGY OF LEARNING****3:3:0**

The objectives of this course are to provide students with a broad overview of the dominant theories and research in the areas of learning and motivation. Students will experience some classic experiments in this area of psychology through computer simulation and classroom demonstrations.

Prerequisites: PSYC-201, PSYC-207, PSYC-322, PSYC-323, MTSC-121..

Credit, three hours.

**PSYC-414. COUNSELING PSYCHOLOGY II****3:3:0**

A course designed to treat counseling theories and provide actual experience with the counseling process. Counseling approaches from the following systems of personality and therapy will be considered: Reality Therapy, Behavioral Therapy, Rational Emotive Therapy, Rogerian Therapy, Adlerian Therapy, and Psychoanalytic Therapy. Students will participate in a group counseling experience supervised by the Instructor.



Prerequisites: PSYC-201, PSYC-411, junior level.  
Credit, three hours.

**PSYC-416. SOCIAL PSYCHOLOGY**

**3:3:0**

A study of the impact of social institutions on the behavior of the individual and the impact of the individual on the group including a discussion of attitudes, beliefs, public opinion, propaganda, leadership prejudice, and international tension.

Prerequisites: PSYC-201, junior level.  
Credit, three hours.

**PSYC-422. HISTORY AND SYSTEMS OF PSYCHOLOGY**

**3:3:0**

A course covering the philosophical and scientific works that form the basis of modern psychology. Classic concepts such as structuralism and functionalism will be considered as well as important schools of thought such as behaviorism, psychoanalysis, Gestalt, and cognitive.

Prerequisites: PSYC-201, PSYC-207, PSYC-322, PSYC-323, PSYC-400, PSYC-413, PSYC-416, MTSC-121.  
Credit, three hours.

**PSYC-425. SENIOR RESEARCH SEMINAR**

**3:3:0**

This is a one-semester capstone course. Students will apply what they have learned from the core courses in generating an original research proposal.

Prerequisites: PSYC-201, PSYC-207, PSYC-322, PSYC-323, PSYC-400, PSYC-413, PSYC-416, MTSC-121.  
Credit, three hours.

**PSYC-430. INDIVIDUAL READING AND CONFERENCE**

**2:2:0**

The course is designed to provide the student the opportunity for individual extensive reading in a selected topic under the guidance of a faculty member of the Psychology Department. Specific activities will include: 1) reading as directed, and 2) conferring with the Instructor on the completed reading. A written report is required.

Prerequisites: PSYC-201, PSYC-207, PSYC-322, MTSC-121., consent of the Instructor and Department Chair.  
Credit, two hours. (May be repeated once for credit.)

**PSYC-432. INDEPENDENT STUDY**

**3:3:0**

A course designed to provide the student the opportunity for laboratory or field based research in a selected area of psychology.

Prerequisites: Junior status, and written consent of the Instructor.  
Credit, three hours.

**PSYC-435. PRACTICA IN APPLIED PSYCHOLOGY**

**3-9:3-9:0**

The practica in applied psychology provides students the opportunity to observe and or practice the application of behavior science principles on the job. This will be accomplished by assigning students to participate in the operation of various state and local human service agencies, under the guidance and supervision of a college advisor. Practica in organizational psychology will be located in various businesses and organizations.

Credit, three to nine hours.

**PSYC-435A. PRACTICA IN APPLIED PSYCHOLOGY**

**3:1:0**

The Practica in Applied Psychology provides students the opportunity to observe and practice the application of behavior science principles on-the-job. The students will have an opportunity to identify a practicum site from an approved practicum site list. This course will provide the students with civic and social services that could be incorporated onto their professional resumes. The course instructor will work out course expectations with the student and the practicum site supervisor.

Prerequisites: Successful completion of all Freshman and Sophomore level courses in the Psychology curriculum including, PSYC-201, PSYC-206, PSYC-207, PSYC-316, PSYC-322, PSYC-323, MTSC-121, and written consent of the Instructor.

Credit, three hours.

**PSYC-435B. PRACTICA IN APPLIED PSYCHOLOGY****3:1:0**

The Practica in Applied Psychology provides students the opportunity to observe and practice the application of behavior science principles on-the-job. The students will have an opportunity to identify a practicum site from an approved practicum site list. This course will provide the students with civic and social services that could be incorporated onto their professional resumes. The course instructor will work out course expectations with the student and the practicum site supervisor.

Prerequisites: Successful completion of all Freshman and Sophomore level courses in the Psychology curriculum including, PSYC-201, PSYC-206, PSYC-207, PSYC-316, PSYC-322, PSYC-323, MTSC-121, and written consent of the Instructor.

Credit, three hours.

**PSYC-435C. PRACTICA IN APPLIED PSYCHOLOGY****3:1:0**

The Practica in Applied Psychology provides students the opportunity to observe and practice the application of behavior science principles on-the-job. The students will have an opportunity to identify a practicum site from an approved practicum site list. This course will provide the students with civic and social services that could be incorporated onto their professional resumes. The course instructor will work out course expectations with the student and the practicum site supervisor.

Prerequisites: Successful completion of all Freshman and Sophomore level courses in the Psychology curriculum including, PSYC-201, PSYC-206, PSYC-207, PSYC-316, PSYC-322, PSYC-323, MTSC-121, and written consent of the Instructor.

Credit, three hours.

**PSYC-436. BEHAVIOR MODIFICATION: THEORY AND PRACTICE****3:3:0**

The application of principles derived from learning theory to individuals and groups. Special attention will be given to parenting, treatment of abnormal behavior, and the workplace.

Prerequisites: PSYC-201, junior level.

Credit, three hours.

## **DEPARTMENT OF SOCIOLOGY AND CRIMINAL JUSTICE**

**Chair:** Blay

**Professors:** Blay, Streetman

**Assistant Professors:** Dillard

The Sociology and Criminal Justice Department offers a Bachelor of Arts degree in Sociology and a Bachelor of Arts degree in Criminal Justice with a selection of courses in the scientific study of human society. The Sociology major provides a comprehensive grounding in the academic discipline of Sociology and its theories, methods, and findings. The Criminal Justice major provides a comprehensive grounding in the discipline of criminology as well as the analysis of the multitude of social factors and institutions that impact the criminal justice system. The Department also offers a minor in Sociology and a minor in Criminal Justice.

### **Mission**

The Department of Sociology and Criminal Justice is committed to the principles of a liberal education and to assisting its students to think sociologically in order to better understand human behavior. The Department's curricula are designed to not only prepare students for careers and graduate studies in Sociology and Criminal Justice, but also to equip them with a far-reaching view of the world consistent with the goals of a liberal arts education and to prepare them to recognize the social institutions and patterns upon which everyday life rests. The mission of the Department is intricately tied to the mission of the University which recognizes the richness in multiculturalism and cultural diversity. In this regard, an important part of the Department's mission is to educate students for world citizenship. This requires knowledge that values the multitude of cultures in society, a critical understanding of multicultural perspectives and experiences, and the emerging interdependencies among members of the now global community. Central to the Department's mission is fostering in our students critical and analytical thinking skills, research capabilities necessary to systematically explore the complex interconnectedness among people and their social world, and to engage in life-long learning. The Department places heavy emphasis on application of the principles of sociology and criminal justice, encouraging students to demonstrate an awareness of social inequalities and a commitment to social justice. In this context, the Department seeks to provide an enabling environment within which students are provided with the knowledge and skills through coursework, real-life experiences, and through internships that empower them to create a more just society.

### **Major in Sociology**

In order to graduate with a Bachelor of Arts in Sociology, a student must complete at least 120 credit hours of coursework to include:

1. All required General Education courses.
2. The following required Sociology courses: SCCJ-101, 103, 203, 206, 210, 303, 310, 314, 322, 412, 420, 435, and 448.
3. Three (3) Sociology elective courses selected from a recommended list (see below).
4. A Social Science elective. A minimum grade of "C" is required in each Sociology course.

Recommended courses to satisfy Sociology elective requirements are:

<u>Course Name</u>	<u>Course Number</u>
Men and Women in Society (new)	SCCJ-307
Real/Reel Culture (new)	SCCJ-409
Population Analysis	SCCJ-330
Sociology of Law	SCCJ-406
Technology and Society	SCCJ-321
Principles of Corrections	SCCJ-402
Criminology	SCCJ-208
Law Enforcement	SCCJ-311
Courts and Criminal Justice	SCCJ-331
Criminal Law	SCCJ-315
Juvenile Delinquency	SCCJ-301
Victimology	SCCJ-415

### **Minor in Sociology**

To graduate with a minor in Sociology, a student must complete eighteen (18) hours of coursework. Required courses are: Introduction to Sociology, Social Institutions, Social Psychology, Methods of Research in Sociology, Sociological Theories, and an elective course in Sociology at the 300 or 400 level.

### **Major in Criminal Justice**

To graduate with a Bachelors Degree in Criminal Justice, a student must complete at least 120 credit hours of coursework to include:

1. All required General Education courses.
2. The following Criminal Justice and related courses: Criminal Justice 104, 208, 311, 313, 315, 316, 402, 415, 448, 450, and Sociology 101, 210, 303, 314, 322, 412, and 420.
3. Two (2) Sociology elective courses at or above the 300 level selected from a recommended list (see below). A minimum grade of —C is required in each of the above courses.

Recommended courses to satisfy Criminal Justice elective requirements are:

<u>Course Name</u>	<u>Course Number</u>
Men and Women in Society (new)	SCCJ-307
Real/Reel Culture (new)	SCCJ-409
Population Analysis	SCCJ-330
Social Change	SCCJ-435
Social Stratification	SCCJ-310
Sociology of Law	SCCJ-406
Technology and Society	SCCJ-321
Sociology of the Family	SCCJ-351
Juvenile Delinquency	SCCJ-301

### **Minor in Criminal Justice**

To graduate with a minor in Criminal Justice, a student must complete eighteen (18) credit hours of coursework. Required courses are: Introduction to Criminal Justice, Criminology, Law Enforcement, Courts and Criminal Justice, Methods of Research, and an elective course in Criminal Justice at the 300 or 400 level.

**\*\*A minimum grade of “C” is required for the following General Education courses: English Composition I, English Composition II, University Seminar, Speech, Critical Thinking, Global Societies, and Lifetime Fitness and Wellness.**

**B.A. DEGREE IN CRIMINAL JUSTICE**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Comp I	3	ENGL-102	English Comp II	3
SCCJ-101	Intro to Sociology*	3	PSYC-102	Intro to Gen Psych	3
MTSC-101	Survey of Mathematics I	3	MTSC-102	Survey of Mathematics II	3
xx-xxx	Natural Science w/lab	3-4	xx-xxx	Natural Science w/lab	3-4
MVSC-100	Fitness and Wellness	2	SCCJ-104	Intro to Criminal Justice*	3
SCCJ-191	University Seminar I	1	SCCJ-192	University Seminar II	1
	Total Credits	15-16		Total Credits	15-17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-201	World Lit I or 1-205 Afro Amer Lit I	3	ENGL-202	World Lit II or 1-205 Afro Amer Lit II	3
SCCJ-202	Social Deviance*	3	SCCJ-208	Criminology*	3
xx-xxx	Foreign Lang Elective	3	xx-xxx	Foreign Lang Elective	3
PHIL-101	Critical Thinking	3	HIST-xxx	History Elective 7-201, 34-202, 34-203, 34-204	3
ENGL-200	Speech	3	SCCJ-210	Race & Ethnic Relations*	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
SCCJ-303	Social Psychology*	3	INFO-101	Applying Computers	3
SCCJ-311	Law Enforcement*	3	SCCJ-313	Courts and Criminal Justice*	3
SCCJ-314	Methods of Research in Sociology*	3	SCCJ-322	Elementary Statistics for Social Research	3
xx-xxx	Arts/Humanities Elective	3	SCCJ-315	Criminal Law*	3
GLST-395	Global Societies	3	SCCJ-316	Contemporary Issues in Criminal Justice*	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
SCCJ-402	Principles of Corrections	3	SCCJ-448	Senior Seminar**	3
SCCJ-412	Sociological Theories*	3	SCCJ-450	Criminal Justice Internship	3
SCCJ-420	Complex Organizations*	3	SCCJ-xxx	Sociology/CJ Elective (300 or 400 level)	3

SCCJ-415	Victimology*	3	xx-xxx	Free Elective	3
xx-xxx	Free Elective	3	SCCJ - xxx	Sociology/CJ Elective (300 or 400 level)	3
	Total Credits	15		Total Credits	15

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

Total Credits: 121
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**RECOMMENDED COURSES TO SATISFY  
SOCIOLOGY / CRIMINAL JUSTICE ELECTIVE REQUIREMENTS**

<b><u>Course Name</u></b>	<b><u>Course Number</u></b>
Men and Women in Society (new)	SCCJ-307
Real/Reel Culture (new)	SCCJ-409
Population Analysis	SCCJ-330
Social Change	SCCJ-435
Social Stratification	SCCJ-310
Sociology of Law	SCCJ-406
Technology and Society	SCCJ-321
Sociology of the Family	SCCJ-351
Juvenile Delinquency	SCCJ-301
Independent Study	SCCJ-399 (With Chair's written permission)

**B.A. DEGREE IN SOCIOLOGY**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	English Comp I	3	ENGL-102	English Comp II	3
SCCJ-101	Intro to Sociology*	3	PSYC-102	Intro to General Psych	3
MTSC-101	Survey of Mathematics I	3	MTSC-102	Survey of Mathematics II	3
xx-xxx	Natural Science w/lab	3-4	xx-xxx	Natural Science w/lab	3
MVSC-100	Fitness and Wellness	2	SCCJ-103	Social Institutions*	3
SCCJ-191	University Seminar I	1	SCCJ-192	University Seminar II	1
	Total Credits	15-16		Total Credits	15-17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-201 or ENGL-205	World Lit I OR African Amer Lit I	3	ENGL-202 or ENGL-206	World Lit II OR African Amer Lit II	3
SCCJ-203	Social Problems*	3	xx-xxx	Social Science Elective	3
xx-xxx	Foreign Lang Elective	3	xx-xxx	Foreign Lang Elective	3
PHIL-101	Critical Thinking	3	SCCJ-206	Cultural Anthropology*	3
ENGL-200	Speech	3	SCCJ-210	Race & Ethnic Relations*	3
	Total Credits	15		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
SCCJ-303	Social Psychology*	3	SCCJ-310	Social Stratification*	3
SCCJ-314	Methods of Research in Sociology	3	SCCJ-322	Elementary Statistics for Social Research	3
HIST-xxx	History Elective 34-201, -202, -203, OR -204	3	GLST-395	Global Societies	3
xx-xxx	Arts/Humanities Elective	3	INFO-101	Applying Computers	3
SCCJ-351	Sociology of the Family*	3	xx-xxx	Social Science Elective	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
SCCJ-	Sociological Theories*	3	SCCJ-	Senior Seminar**	3



412			448		
SCCJ-435	Social Change*	3	SCCJ - xxx	Sociology/CJ Elective (300 or 400 level)	3
SCCJ-420	Complex Organizations*	3	SCCJ - xxx	Sociology/CJ Elective (300 or 400 level)	3
SCCJ - xxx	Sociology/CJ Elective (300 or 400 level)	3	xx-xxx	Free Elective	3
xx-xxx	Free Elective	3	xx-xxx	Free Elective	3
	Total Credits	15		Total Credits	15

Total Credits: 121
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**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

## **SOCIOLOGY AND CRIMINAL JUSTICE (SCCJ) (37)**

### **SCCJ-101. INTRODUCTION TO SOCIOLOGY**

**3:3:0**

Development and application of Sociological concepts and perspectives concerning human groups including attention to socialization, culture, organization, stratification, and societies. Consideration of fundamental concepts and research methodology.

Credit, three hours.

### **SCCJ-103. SOCIAL INSTITUTIONS**

**3:3:0**

The course is designed to provide a thorough examination of the major social institutions (i.e., the family, the economy, the educational system, the religious system, the political system, and the medical system) from a variety of sociological perspectives.

Prerequisites: SCCJ-102.

Credit, three hours.

### **SCCJ-104. INTRODUCTION TO CRIMINAL JUSTICE**

**3:3:0**

Survey of the agencies and processes involved in the Criminal Justice System including the police, the prosecutor, the public defender, the courts, and corrections.

Prerequisites: SCCJ-101, or consent of the Instructor.

Credit, three hours.

### **SCCJ-191. UNIVERSITY SEMINAR I – SOCIOLOGY**

**1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **SCCJ-192. UNIVERSITY SEMINAR II – SOCIOLOGY**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **SCCJ-202. SOCIAL DEVIANCE**

**3:3:0**

A sociological analysis/discussion of the causes, the dynamics, and consequences of selected cases of deviation from societal norms and social problems including crime and delinquency, poverty, family violence and divorce, social inequalities, drugs, alcoholism, war, and terrorism.

Credit, three hours.

### **SCCJ-203. SOCIAL PROBLEMS**

**3:3:0**

Analysis of major social problems in modern society; their causes, trends, and variations in their incidence, and resources for their prevention and treatment.

Prerequisites: SCCJ-101, or consent of the Instructor.

Credit, three hours.

**SCCJ-206. CULTURAL ANTHROPOLOGY****3:3:0**

Examines culture and its role in the determination of human behavior. The relationships of kinship, political, economic, and religious institutions within culture systems, with a particular emphasis upon the operation of these institutions in non-Western societies.

Credit, three hours.

**SCCJ-208. CRIMINOLOGY****3:3:0**

The nature and extent of crime in the United States, theories of crime, problems, and rehabilitation.

Prerequisites: SCCJ-103, SCCJ-104, or consent of the Instructor.

Credit, three hours.

**SCCJ-210. RACE AND ETHNIC RELATIONS****3:3:0**

A study of the basic nature of interracial and interethnic relations. Analysis of problems connected with minority groups in the United States.

Prerequisites: SCCJ-101, SCCJ-103, or consent of the Instructor.

Credit, three hours.

**SCCJ-299. TECHNOLOGY AND SOCIETY****3:3:0**

A critical analysis of the science-behavioral sciences/humanities dichotomy and an examination of the interrelationship between technological innovations and social structure/social change.

Prerequisites: SCCJ-103, or consent of the Instructor.

Credit, three hours.

**SCCJ-301. JUVENILE DELINQUENCY****3:3:0**

The delinquency problem. Factors associated with delinquency, preventive measures, and rehabilitation.

Prerequisites: SCCJ-200 level course, or consent of the Instructor.

Credit, three hours.

**SCCJ-303. SOCIAL PSYCHOLOGY****3:3:0**

Analysis of interpersonal behavior with emphasis on the organization and dynamics of social groups and the impact of such groups on the development of attitudes, values, and emotions, etc.

Prerequisites: SCCJ-200 level course, or consent of the Instructor.

Credit, three hours.

**SCCJ-307. MEN AND WOMEN IN SOCIETY****3:3:0**

The course is designed to provide students with a sociological framework for analyzing and deconstructing gender relations in society. Topics will include the social construction of gender, gender socialization, power and violence, sexuality, gender relations in the family, and gender stratification in the labor force.

Credit, three hours.

**SCCJ-310. SOCIAL STRATIFICATION****3:3:0**

Analysis of stratification theories and of major empirical research in the area. Considers effects of social stratification in the United States.

Prerequisites: SCCJ-200 level course, or consent of the Instructor.

Credit, three hours.

**SCCJ-311. LAW ENFORCEMENT****3:3:0**

A survey of law enforcement concentrating on the police, with an emphasis on functions (law enforcement, order maintenance, and public service), responsibilities, and organizational and management aspects.

Prerequisites: SCCJ-104, SCCJ-208, or consent of the Instructor.

Credit, three hours.

**SCCJ-313. COURTS AND CRIMINAL JUSTICE****3:3:0**

The course is designed to provide an analysis of the structure and function of the criminal system in the United States including the roles of the prosecutor, defender, judge, justice, and court administrator. The issues confronting the system will be considered from historical and sociological perspectives. The ideal type will be compared with actual functioning of the system and court reform programs and proposals will be discussed.

Prerequisites: SCCJ-104, SCCJ-208, or consent of the Instructor.

Credit, three hours.

**SCCJ-314. METHODS OF SOCIOLOGICAL RESEARCH****3:3:0**

Survey of the methods employed in the collection and analysis of data used in the social sciences.

Prerequisites: SCCJ-101, SCCJ-103, or consent of the Instructor.

Credit, three hours.

**SCCJ-315. CRIMINAL LAW****3:3:0**

A study of both substantive and procedural criminal law. Consideration is given to its historical development, principles of criminal law and criminal liability, and the main doctrines of criminal law toward specific crimes and sanctions.

Prerequisites: SCCJ-104, SCCJ-311, SCCJ-313, or consent of the Instructor.

Credit, three hours.

**SCCJ-316. CONTEMPORARY ISSUES IN CRIMINAL JUSTICE****3:3:0**

The course examines current and controversial issues in Criminal Justice such as the social consequences of legislative statutes like the U.S. Patriot Act, Three Strikes Laws, the Knock and Announce Rule, and DNA related legal issues.

Credit, three hours.

**SCCJ-322. ELEMENTARY STATISTICS****3:3:0**

A course covering graphic representation of data, measures of central tendency and dispersion, the normal distribution and the use of standard scores, and simple correlation and regression.

Prerequisites: SCCJ-103, or consent of the Instructor.

Credit, three hours.

**SCCJ-330. POPULATION ANALYSIS****3:3:0**

Causes, consequences of, and interaction among the three major demographic variables: 1) fertility, 2) mortality, and 3) migration. The various policy alternatives with respect to the three (3) demographic variables will be examined.

Prerequisites: SCCJ-103, or consent of the Instructor.

Credit, three hours.

**SCCJ-351. SOCIOLOGY OF THE FAMILY****3:3:0**

Historical evolution of family structures and functions, current changes, and problems.

Prerequisites: SCCJ-103, or consent of the Instructor.

Credit, three hours.

**SCCJ-399. INDEPENDENT STUDY****3:3:0**

Individual reading or field study by students wishing to pursue a special interest within the field of sociology, but not covered by one of the regular sociology courses.

Prerequisites: Consent of the Instructor.

Credit, three hours.

**SCCJ-402. PRINCIPLES OF CORRECTIONS****3:3:0**

A general course describing the history and evolution of the corrections process. Covers all aspects of institutional and community based corrections.

Prerequisites: SCCJ-300 level course, or consent of the Instructor.

Credit, three hours.

**SCCJ-409. REAL/REEL CULTURE****3:3:0**

The course will foster an understanding of human culture and how mass media, especially Hollywood movies, are affecting culture(s) and our construction of ourselves as cultural beings. In this course students will learn the analytical and interpretive methods, research skills, and human wisdom of the disciplines of sociology and anthropology.

Credit, three hours.

**SCCJ-412. SOCIOLOGICAL THEORIES****3:3:0**

Description and critical study of the more important sociological theories of the 19th and 20th centuries.

Prerequisites: SCCJ-300 level course, or consent of the Instructor.

Credit, three hours.

**SCCJ-415. VICTIMOLOGY****3:3:0**

The role of victims in crimes, their treatment by the criminal justice system, their decisions to report crimes and help prosecute offenders, and victim compensation. Special focus on sexual assault and family violence.

Prerequisites: SCCJ-300 level course, or consent of the Instructor.

Credit, three hours.

**SCCJ-420. COMPLEX ORGANIZATIONS****3:3:0**

Analysis of the structure of complex organizations in their cultural context. Sociological factors in industrial, economic, and social organizations.

Prerequisites: SCCJ-300 level course, or consent of the Instructor.

Credit, three hours.

**SCCJ-430. SENIOR SEMINAR IN SOCIOLOGY****3:3:0**

An examination and discussion of selected topics in sociology.

Prerequisites: SCCJ-101, SCCJ-102, SCCJ-314, SCCJ-322, and SCCJ-412.

Credit, three hours.

**SCCJ-435. SOCIAL CHANGE****3:3:0**

Examination of the causes, mechanics, patterns, strategies, or consequences of change in structure (relationships and institutions) of societies, and analysis of specific kinds of change such as revolutions, social movements, modernization, and industrialization.

Prerequisites: SCCJ-300 level course, or consent of the Instructor.

Credit, three hours.

**SCCJ-448. SENIOR SEMINAR****3:3:0**

Varying topics of selected interest and contemporary significance discussed in a seminar format.

Prerequisites: Senior status with major or minor in Sociology/Criminal Justice.

Credit, three hours.

**SCCJ-450. CRIMINAL JUSTICE INTERNSHIP****3:4:0**

Designed to give students first-hand, career related experience in a local agency or organization. Internships must be planned with the Department's Internship Coordinator and a Field Supervisor in the semester prior to the actual placement. Qualified agency staff provides on-site supervision of the student, and the Internship Coordinator, in conjunction with the Field Supervisor, monitors the intern's progress and evaluates his/her work.

Prerequisites: Senior status with major or minor in Criminal Justice, and consent of the Internship Coordinator.

Credit, three hours.



# COLLEGE OF BUSINESS

**Dean:** Dr. Shelton Rhodes

## ADMISSION PROCESS TO PRE-BUSINESS AND BUSINESS DEGREE PROGRAMS

There are two (2) Phases for students to consider when selecting a Business Degree option. The first is known as the Pre-Business Phase and the second is the Business Degree Program Phase.

1. **Admission** - all incoming freshmen, sophomores, and transfer students interested in a business degree from the College of Business will be placed into the Pre-Business Phase until minimum requirements are met for acceptance into a particular business degree program.
2. Students in the Pre-Business Phase will be advised by the College of Business Advising Center as to what is required to be accepted into one (1) of the business degree programs.
3. In order to advance from the Pre-Business Phase and be accepted into the Business Degree Program Phase, students must complete a minimum of forty-five (45) academic credit hours in the Pre-Business Phase, including the courses listed below:

Course	Course Number	Credits
Management Processes	MGMT-205	4
Microcomputer Applications	MIS-105	3
Accounting	ACCT-201	3
College Algebra	MTSC-121	3
Macroeconomics	ECON-201	3
Professional Development I	MGMT-255	1
English Composition I	ENGL-101	3
English Composition II	ENGL-102	3

4. In addition to the minimum forty-five (45) required credit hours, students must satisfy the following GPA requirements to be accepted in the Business Program Phase:
  - A minimum cumulative entry GPA of 2.50 for all University coursework.
  - A minimum cumulative entry GPA of 2.50 for all required College of Business (COB) core courses.

## ADMISSIONS PROCESS

Students will be considered for the Business Degree Program Phase upon successful completion of the minimum of forty-five (45) credit hours, including the courses stipulated, and the GPA requirements. The College of Business Advisement Center will review student records at the end of the sophomore year and make recommendations to the Department Chair(s) and Dean.

Students who are unsuccessful in meeting the minimum criteria as outlined will be permitted to remain in the Pre-Business Phase for only one (1) additional semester after their initial application to be considered for the Business Degree Program Phase. Students will not be permitted to take advanced business courses until minimum standards are met.

Students who are unsuccessful in meeting minimum requirements after one (1) semester of the initial application for the Business Degree Program Phase will be advised by the College's Advising Office to consider degree programs in other Colleges within the University. Students not accepted into the Business Degree Phase have the option of selecting a minor from any program in the College of Business. However, they must select a major outside the College of Business.

## **TRANSFER STUDENTS**

Transfer students intending to major in the College of Business at Delaware State University with less than a 2.5 GPA will be placed in the College's Pre-Business Program. The College of Business will allow transfer students one (1) academic semester, equivalent to twelve (12) semester credits, at DSU to be in compliance with the 2.5 GPA requirements in order to be admitted as a major in the College. Transfer students not meeting the standard after one (1) semester, or twelve (12) hours, will be advised to consider other majors within the University.

## **REQUIREMENTS FOR THE BACHELOR OF SCIENCE (B.S.) DEGREE**

To earn the Bachelor of Science degree, a student must accomplish the following:

1. Complete the required hours in a degree program with a minimum overall Grade Point Average (GPA) of 2.00 or higher.
2. Complete a minimum of fifty-eight (58) hours in General Education courses, as follows:
  - English Composition: six (6) hours (ENGL 101, 102), and three (3) hours of Speech (ENGL 200).
  - Mathematics: six (6) hours (MTSC 121 and 125), and three (3) hours of Business Calculus (MTSC-225).
  - University Seminar: two (2) hours (MGMT-191 & MGMT-192).
  - Natural Science: six (6) hours in which two (2) lab sciences are to be selected from among the following: Astronomy, Biology, Chemistry, Ecology, Geology, Physical Science, and Physics.
  - Art/Humanities: three (3) hours to be selected from among the following: Art 101, Music 101, African-American Music 101, Theater 113, Philosophy 201, Ethics 202, and Contemporary Moral Issues 105.
  - Global Societies: three (3) hours (31-395).
  - Health and Wellness: two (2) hours (SPSC-100).
  - American History: three (3) hours (201, 202, 203, 204).
  - Social Science: nine (9) hours (Macroeconomics ECON-201, Microeconomics ECON-202, Introductory Statistics MGMT-208).
  - Foreign Language: six (6) hours.
  - Literature: six (6) hours (201 and 202 or 205 and 206)
3. Complete a senior Capstone experience (See Course Curriculum).
  - The capstone course, Strategic Management (MGMT-445), is a General Education Requirement but is included in the Management Core.
4. Complete the Management Core courses listed below totaling thirty-nine (39) credit hours. The Management Core provides students with generic management skills needed to manage in a wide range of organizations. The foundation of the management core will be the cornerstone Management Process course (MGMT-105) and the capstone Strategic Management course (MGMT-445). Students will be presented with a holistic approach in learning and understanding how the functional areas in business and management are intertwined and applicable to a broad range of organizational issues and challenges. Courses in the Management Core will be project-oriented and team-based, with the students integrating knowledge and skills learned in other courses.



<b><u>Course Name</u></b>	<b><u>Credit Hours</u></b>
MGMT-105 Management Processes	4
MGMT-305 Management Info Systems	3
MGMT-306 Operations Management	3
MGMT-325 Organizational Behavior	3
MGMT-440 International Management	3
MGMT-445 Strategic Management	3
ACCT-201 Accounting I	3
ACCT-203 Accounting for Decision Making (Non-Accounting Majors)	3
ACCT-302 Legal Environment	3
FIN-300 Managerial Finance	3
MKT-300 Principles of Marketing	3
MIS-100 Microcomputer Apps	3
MGMT-255 Professional Development I	1
MGMT-256 Professional Development II	1

5. Complete the courses required for the major or concentration, including electives, where indicated in curriculum.

- Accounting: ACCT-202, ACCT-305, ACCT-306, ACCT-307, ACCT-308, ACCT-311, ACCT-402, ACCT-405, ACCT-423, ACCT-427, ACCT-430, and a three (3) hour Accounting elective.
- Hospitality and Tourism Management: HTM-100, HTM-108, HTM-207, HTM-214, HTM-305, HTM-311, HTM-314, HTM-349, HTM-405, HTM-417, HTM-445, HTM-490, and a three (3) hour HTM elective course.
- Management: Under Management, students may select from several concentrations. The Management Concentration provides a depth of understanding in a specific functional area of specialization within management.

A concentration consists of a minimum of eighteen (18) credit hours beyond the required core courses. Concentrations are provided in the areas of:

- Business Economics: ECON-301, ECON-308, ECON-400, ECON-414, and six (6) hours of Business Economics electives.
- Finance and Banking: FIN-315, FIN-418, FIN-420, FIN-449, and six (6) hours of Finance and Banking electives
- General Management: nine (9) hours of Specific Requirement (FIN/HRM/MIS/MKT), and nine (9) hours of the General Requirement courses selected from the following (MGMT-201, MGMT/03-341, MGMT-425, MGMT-435, MGMT-437, or ACCT-402).
- Human Resources Management: HRM-320, HRM-330, HRM-430, HRM-440, and six (6) hours of Human Resources Electives.
- Management Information Systems: MIS-314, MIS-360, MIS-470, MIS-475, MIS-480, and three (3) hours of Management Information Systems electives.
- Marketing: MKT-315, MKT-407, MKT-415, MKT-420, MKT-426, and three (3) hours of a Marketing electives.

If a student desires a global emphasis within one (1) of the above concentrations, the student may take International Economics and Trade, International Marketing, International Accounting and International Financial Management that is appropriate for the concentration. If a student desires an entrepreneurial emphasis within one (1) of the above concentrations, the student may take New Venture Finance & Investment, and Small Enterprise Marketing. An emphasis in either entrepreneurship or global management must be approved by the student's Advisor.

## MINORS

College of Business majors as well as students with a major from other Schools and Colleges may earn a minor in Accounting, Business Economics, Finance and Banking, Hospitality and Tourism Management, Management, and Marketing.

### Minor in General Management

Students may earn a minor in General Management by completing 15 credit hours as specified with a grade of “C” or better.

Course #	Course Title	Credits	Prerequisite(s)
MKT-300	Principles of Marketing	3	Junior Standing
ACCT-201	Accounting I	3	MTSC-121
HRM-320	Human Resource Management	3	Junior Standing, 41-205
FIN-300	Managerial Finance	3	ECON-201, ECON-202, ACCT-202 or ACCT-203
MGMT-305	Management Information Systems	3	MGMT-205, MIS-105
	<b>TOTAL</b>	<b>15</b>	

### Minor in Accounting

Students may earn a minor in Accounting by completing twenty-two (22) credit hours as designated by the following courses: Management Processes MGMT-100, Accounting I ACCT-201, Accounting II ACCT-202, Intermediate Accounting I ACCT-305, Intermediate Accounting II ACCT-306, Accounting Information Systems ACCT-405, and Cost Accounting ACCT-307.

Course #	Course	Credits
MGMT-105	Management Processes	4
ACCT-201	Accounting I	3
ACCT-202	Accounting II	3
ACCT-305	Intermediate Accounting I	3
ACCT-306	Intermediate Accounting II	3
ACCT-405	Accounting Information Systems	3
ACCT-307	Cost Accounting	3
	<b>TOTAL</b>	<b>22</b>

**Minor in Business Economics**

The minor in Business Economics requires a minimum of twenty-one (21) hours: Macroeconomics ECON-201, Microeconomics ECON-202, Introduction to Statistics MGMT-208, Intermediate Macroeconomics ECON-301, Managerial Economics ECON-400, and two Economics electives.

Course #	Course	Credits
ECON-201	Principles of Macroeconomics	3
ECON-202	Principles of Microeconomics	3
ECON-208	Introduction to Statistics	3
ECON-301	Intermediate Macroeconomics	3
ECON-400	Managerial Economics	3
	Two Elective Courses from the following: 25-225, Calculus for Business; 40-308, Statistical Analysis; 40-303, Quantitative Economic Analysis; 40-300, Managerial Finance; Any Elective in Economics or Finance & Banking	6
	Total	21

**Minor in Entrepreneurship**

Students may earn a minor in Entrepreneurship by completing 12 credit hours as specified with a grade of “C” or better.

Course #	Course Title	Credits	Prerequisite(s)
MGMT-435	Entrepreneurship	3	Junior Standing
MGMT-490	Internship	3	Approval of Department Chair
FIN-424	New Venture Finance & Investment	3	FIN-424 Managerial Finance
MKT-462	New Product Development	3	Junior Standing
	<b>TOTAL</b>	<b>12</b>	

**Minor in Finance and Banking**

Students may earn a minor in Finance and Banking by completing twenty-two (22) credit hours as specified: Microeconomics ECON-202, Management Processes MGMT-100, Accounting I ACCT-201, Managerial Finance FIN-300, Financial Markets and Institutions FIN-315, Investments FIN-418, and one (1) additional Finance course.

Course #	Course	Credits
ECON-202	Microeconomics	3
MGMT-105	Management Processes	4
ACCT-201	Accounting I	3
FIN-300	Managerial Finance	3
FIN-315	Financial Markets and Institutions	3
FIN-418	Investments	3
FIN-xxx	One Additional Finance Course	3
	Total	22

**Minor in Hospitality and Tourism Management**

Students may earn a minor in Hospitality by completing 12 credit hours as specified with a grade of “C” or better.

Course #	Course Title	Credits	Prerequisite(s)
HTM-100	Introduction to Hospitality Industry	3	None
HTM-207	Sanitation and Safety	3	None
HTM-305	Hospitality Cost Control & Information Systems	3	HTM-207, HTM-210
HTM-355	Lodging & Operations Management	3	Junior Standing, FIN-355
	<b>TOTAL</b>	<b>12</b>	

### Minor in Human Resources Management (HRM)

Students may earn a minor in HRM by completing 12 credit hours as specified with a grade of “C” or better.

Course #	Course Title	Credits	Prerequisite(s)
HRM-452	Staffing & Performance Management	3	MGMT-208, HRM-320
HRM-320	Human Resource Management	3	Junior Standing, MGMT-205
HRM-XXX	Selected Topics (HRM)	3	Junior Standing
HRM-440	HR Planning & Information Systems	3	HRM-430, HRM-320
	<b>TOTAL</b>	<b>12</b>	

### Minor in Management Information Systems (MIS)

Students may earn a minor in MIS by completing 12 credit hours as specified with a grade of “C” or better.

Course #	Course Title	Credits	Prerequisite(s)
MIS-490	System Analysis and Design	3	MGMT-305, MIS-314
MIS-475	Networking & Telecommunications	3	MGMT-305
MGMT-305	Management Information Systems	3	MGMT-205, MIS-105
MIS-xxx	1 – MIS elective	3	See University Catalog
	<b>TOTAL</b>	<b>12</b>	

- The MIS elective should be chosen in consultation with the Chair of the Department and approved by the Dean of the College of Business or his/her designee.

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### Minor in Marketing

Students may earn a minor in Marketing by completing 12 credit hours as specified with a grade of “C” or better.

Course #	Course Title	Credits	Prerequisite(s)
46-300	Principles of Marketing	3	Junior Standing
46-412	Supply Chain Management	3	41-205, 46-300
46-315	Marketing Research	3	41-205, 46-300
46-420	International Marketing <i><b>OR</b></i>	3	41-205, 46-300
46-490	Marketing Internship	3	Approval of Department Chair
	<b>TOTAL</b>	<b>12</b>	

## COLLEGE OF BUSINESS STUDENT PROFESSIONAL DEVELOPMENT

Knowledge gained by students from content courses is just one (1) component for future success. The University experience should also provide enrichment which will serve as a bridge between the students' high school environment and the organizational environment in which they will have to function to successfully achieve their career goals.

The College of Business offers this personal and career enrichment through a series of professional development courses required of all majors. These courses provide socialization to the expectations of the College of Business and to the competitive business and organizational environment.

### Objectives

1. To provide students the opportunity for the development of the —~~hab~~its of mind” leading to success-oriented attitudes and behaviors.
2. To provide students an exposure to the culture and infrastructure of organizations and their environments.
3. To provide students an understanding of the expectations that organizations have of their individual members.
4. To provide students with an orientation to the resources and expectations of DSU and the College of Business.

### Learning Components

Four (4) component activities will be part of each professional development course. These five (5) activities are designed to develop the skills necessary for effective leadership in management careers.

1. **Journal.** Each student will be required to write daily in a personal journal. These writings will be a response to assigned topics or readings. They will be monitored for completeness. Students will reflect on what they learn and have the opportunity to develop and monitor personal goals.
2. **Reading.** Reading is seen as a means to open the world to the students. An emphasis will be placed on the importance of reading outside of and beyond class assignments. The reading focus is developmental through the four (4) years: University Seminar I and II, *Reading as Part of Life*, Professional Development (PD) I, *Reading for Fun*, Professional Development (PD) II, and *Reading for Awareness*.
3. **Effective Communications.** Comfort and skill in public speaking are crucial to the students' success. Opportunities and skill building will be included each year with a major emphasis on public speaking in Professional Development (PD) II.
4. **Exposure to the World of Business.** As a part of professional development, students will have the opportunity to observe and experience different management styles and career possibilities. In the professional development courses, opportunities will be provided for observation of business settings, attendance at leadership forums, and discussions with managers.

In addition, each student is required to have a Management Exposure Experience (MEE) of 150 to 200 hours (corresponding to at least five (5) weeks of full-time employment) taken after the student's sophomore year and before the student's senior year. The MEE may be satisfied by an **internship**, an ongoing **mentorship** in a management capacity. No academic credit will be given for MEE.

The Director of the Advisement Center and Department Chairs supervise the Management Exposure Experience.

## LEARNING OBJECTIVES

### Freshman Year: University Seminar I/University Seminar II – 2 Semesters

<b><u>PERSONAL</u></b> Learning styles Goal setting Overcoming obstacles Time management Career exploration Reading as a part of life Team building skills Dress for success	<b><u>CLASSROOM</u></b> Note taking and study skills Test taking skills Listening skills Reading comprehension Classroom etiquette	<b><u>COMMUNITY</u></b> Local business observation of business Develop directory of business Support organizations
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### Sophomore Year: Professional Development (PD) I: Organizational Culture – 1 Semester

<b><u>PERSONAL</u></b> Social interaction skills Dress for success Time management and punctuality Motivation Personal finance Reading for fun Personal style (Myers Briggs)	<b><u>CLASSROOM</u></b> Work quality techniques Presentation skills	<b><u>COMMUNITY</u></b> The business environment in the U.S. Economic trends Regulatory sector Political influences and lobbying Cultural groups in Dover
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### Junior Year: Professional Development (PD) II: Managerial Leadership – 1 Semester

<b><u>PERSONAL</u></b> Assertiveness training Personal finance Reading for awareness (WSJ required) Portfolio development Networking The business wardrobe Career exploration Resume development Career planning and placement goals Job search techniques Personal finance Portfolio development Reading for interest	<b><u>CLASSROOM</u></b> Presentation skills Public speaking, teamwork and leadership	<b><u>COMMUNITY</u></b> The global community Global businesses in Delaware and the MD & PA region Conversational business phrases My industry (mentorship/internship) The stock market Community service Networking/professional organizations
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**Course Credit**

Credit will be given to students taking each professional developmental course.

**MGMT-191**    **University Seminar I** (1 Semester), 1 Credit Hour.

**MGMT-192**    **University Seminar II** (1 Semester), 1 Credit Hour.

**MGMT-255**    **Professional Development I<sup>+</sup>** (1 Semester), 1 Credit Hour.

**MGMT-256**    **Professional Development II<sup>+</sup>** (1 Semester), 1 Credit Hour.

**Transfer Students**

Transfer students entering with enough transfer credits to exempt them from taking the University required University Seminar I and University Seminar II will be exempted from those courses. In the rare instances of a student transferring to Delaware State University and requiring only thirty (30) credit hours to graduate, only Professional Development II will be required.

**Grading**

Professional Development Courses will be graded on a pass-fail basis. The student achieving 80 percent of possible class points will determine passing. Class points will include points for attendance, journal completion, class projects, and team evaluations.

## **DEPARTMENT OF ACCOUNTING, ECONOMICS & FINANCE**

**Chair:** Ruf

**Professors:** Bieker, Katz, Kwak, Ruf

**Associate Professors:** Anakwe, Casson, Christopher, Das, Williamson

**Assistant Professor:** Mathers, Muzorewa, Ning

### **ACCOUNTING MAJOR**

The major in Accounting requires thirty-six (36) upper division Accounting credits. The major helps students develop their technical knowledge and skills, as well as the critical thinking, communications, and interpersonal skills necessary to succeed in the field of Accounting. Through the Accounting curriculum and related organizations and activities, the Department seeks to promote the achievement of the following objectives:

1. To prepare students for careers in corporate accounting, financial management, public accounting, and other careers in accounting services.
2. To provide students with success in this profession while obtaining a foundation to pursue credentials, such as the Certified Public Accountant (CPA), Certified Management Accountant (CMA), and Certified Internal Auditor (CIA) examinations.
3. To prepare students to pursue advanced degrees in accounting, and management-related disciplines.
4. To prepare students to think creatively and apply knowledge of accounting fundamentals in innovative ways.
5. To help develop student's professional communication and writing skills.
6. To prepare students on the use of information technology for research, decision making, and problem solving in accounting.
7. To promote professional responsibilities and ethical decision making in business.

### **150 HOUR ACCOUNTING PROGRAM**

To meet the new CPA requirements for the State of Delaware (starting in 2012), the college is offering a 150-hour program. The 150-hour program enables students to earn an undergraduate accounting degree and an MBA in five (5) years. Many states already have this requirement. In the beginning of the senior year, students must register for the program and take the GMAT test. Students must meet the requirement of the MBA program to be accepted.

**B.S. DEGREE IN ACCOUNTING (ACCT)**  
**Effective Fall 2011**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-191	University Seminar I ^	1	MGMT-192	University Seminar II ^	1
MTSC-121	College Algebra ^	3	MTSC-125	Finite Math^	3
MVSC-100	Lifetime Fitness & Wellness^	2	MIS-105	Microcomputer Applications	3
ENGL-101	English Composition I ^	3	ENGL-102	English Composition II ^	3
xx-xxx	Natural Science Elective #	3	xx-xxx	Social Science Elective#	3
HIST-xxx	History Elective #	3	xx-xxx	Foreign Language I ^	3
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-xxx	Literature Elective #	3	xx-xxx	Arts/Humanities Elective #	3
xx-xxx	Foreign Language II ^	3	MGMT-205	Management Processes	4
ACCT-201	Accounting I	3	ACCT-202	Accounting II	3
MTSC-225	Calculus for Business ^	3	MGMT-208	Intro to Statistics	3
ECON-201	Macroeconomics	3	ECON-202	Microeconomics	3
MGMT-255	Professional Development I	1			
	Total Credits	16		Total Credits	16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
GLST-395	Global Societies ^	3	ENGL-200	Speech ^	3
FIN-300	Managerial Finance	3	ACCT-302	Legal Environment	3
ACCT-305	Intermediate Accounting I	3	ACCT-306	Intermediate Accounting II	3
ACCT-307	Cost Accounting	3	ACCT-308	Managerial Cost Accounting	3
MKT-300	Principles of Marketing	3	MGMT-201	Managerial Communications *	3
			MGMT-256	Professional Development II	1
	Total Credits	15		Total Credits	16
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr

MGMT-325	Organizational Behavior	3	MGMT-445	Strategic Management **	3
MGMT-440	International Management	3	ACCT-405	Accounting Information Systems	3
ACCT-423	Auditing I	3	ACCT-430	Advanced Accounting	3
ACCT-311	Individual Taxation	3	ACCT-427	Governmental Accounting	3
ACCT-402	Business Law	3	ACCT-xxx	Accounting Elective	3
Total Credits		15	Total Credits		15

^ Must receive a “C” or better in all COB courses and all courses marked with a –△”

# See catalog for acceptable electives, 1 course must cover African American Experience

\*Writing Intensive

\*\* Senior Capstone in College of Business

Total Credits: 124
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**150- HOUR ACCOUNTING PROGRAM (ACCT)**  
**Effective Fall 2011**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-191	University Seminar I ^	1	MGMT-192	University Seminar II ^	1
MTSC-121	College Algebra ^	3	MTSC-225	Calculus for Business ^	3
MVSC-100	Lifetime Fitness & Wellness^	2	MIS-105	Microcomputer Applications ^	3
ENGL-101	English Composition I ^	3	ENGL-102	English Composition II ^	3
xx-xxx	Natural Science Elective #	3	xx-xxx	Social Science Elective#	3
HIST-xxx	History Elective #	3	xx-xxx	Foreign Language I ^	3
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-xxx	Literature elective #	3	xx-xxx	Arts/Humanities Elective #	3
xx-xxx	Foreign Language II ^	3	MGMT-205	Management Processes	4
ACCT-201	Accounting I	3	ACCT-202	Accounting II	3
MTSC-125	Finite Math ^	3	MGMT-208	Intro to Statistics	3
ECON-201	Macroeconomics	3	ECON-202	Microeconomics	3
MGMT-255	Professional Development I	1			
	Total Credits	16		Total Credits	16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
GLST-395	Global Societies ^	3	ENGL-200	Speech ^	3
FIN-300	Managerial Finance	3	ACCT-302	Legal Environment	3
ACCT-305	Intermediate Accounting I	3	ACCT-306	Intermediate Accounting II	3
ACCT-307	Cost Accounting	3	ACCT-308	Managerial Cost Accounting	3
MKT-300	Principles of Marketing	3	MGMT-201	Managerial Communications *	3
			MGMT-256	Professional Development II	1
	Total Credits	15		Total Credits	16
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-440	International Management		MGMT-445	Strategic Management**	
ACCT-423	Auditing I		ACCT-402	Business Law	
ACCT-311	Individual Taxation		ACCT-430	Advanced Accounting	

ACCT-405	Accounting Information System		ACCT-427	Governmental Accounting	
ACCT-xxx	Accounting Elective		51-605	Org Leadership & Behavior	
	Total Credits	15		Total Credits	15
5 <sup>th</sup> year MBA Fall Semester			5 <sup>th</sup> year MBA Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MBA-601	Econ for Managerial Decision Making	3	MBA-604	Financial Mgt	3
MBA-602	Marketing Mgt.	3	ACCT-402	Operations Analysis Mgt.	3
MBA-600	Information & Tech Mgt.	3	MBA-616	Applied Strategic Mgt.	3
MBA-619	Business Law & Ethics	3	MBA-616	MBA Elective	3
MBA-xxx	MBA Elective	3			
	Total Credits	15		Total Credits	12

^ Must receive a "C" or better in all COB courses and all courses marked with a -△"

# See University Catalog for acceptable electives. Must have 1 course in African American Experience

\* Writing in the Major

\*\*Senior Capstone Course in College of Business

Total Credits: 150
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

## **ACCOUNTING (ACCT) (42)**

### **ACCT-201. ACCOUNTING I**

**3:3:0**

This course addresses financial accounting concepts and principles applicable to business enterprises, including a study of the accounting cycle, accounting for selected assets and liabilities, preparation and presentation of financial statements for external users.

Prerequisite: MTSC-121.

Credit, three hours

### **ACCT-202. ACCOUNTING II**

**3:3:0**

This course is a follow-up to Principles of Accounting I. It is a study of managerial accounting concepts and tools for analysis necessary for decision making. This course includes cost terminology, cost allocation, cost flows, activity-based management, cost-volume-profit and breakeven analysis, budgeting and analysis of cost relating to products, and other related issues.

Prerequisite: ACCT-204.

Credit, three hours.

### **ACCT-302. BUSINESS LAW I**

**3:3:0**

This course will expose students to the workings of the legal system with particular emphasis upon the public, private, and regulatory environments that affect individuals and organizations. Ethical, international and other external influences on the organization will be discussed and analyzed in a legal context.

Prerequisite: Junior standing.

Credit, three hours.

### **ACCT-305. INTERMEDIATE ACCOUNTING I**

**3:3:0**

The course addresses accounting theory and practice underlying the preparation and presentation of financial statements, measurement and valuation of assets and liabilities, and selected balance sheet and related income statement items.

Prerequisites: ACCT-202.

Credit, three hours.

### **ACCT-306. INTERMEDIATE ACCOUNTING II**

**3:3:0**

The course, a continuation of Accounting 305, addresses accounting theory, practice, and issues related to corporate capital, current liabilities, long-term debt, pensions, leases, income tax accounting, revenue recognition, and preparation of the cash flow statement.

Prerequisites: ACCT-305.

Credit, three hours.

### **ACCT-309. COST ACCOUNTING**

**3:3:0**

This course addresses cost accounting practices and procedures which includes the following: principles and methods of accounting for material, labor and overhead costs; accounting procedures related to job orders, process costing, and cost allocation procedures; principles of managerial control and other related topics. The course also addresses advanced topics in cost and management accounting. An emphasis is placed on various analyses and related topics which aid in managerial decision-making, cost determination and cost control.

Prerequisite: ACCT-205.

**Credit, three hours.**

### **ACCT-311. INDIVIDUAL TAXATION**

**3:3:0**

This course addresses the principles involved in determining Total Income, Adjusted Gross Income, Taxable Income, and the Tax Liability for individual federal taxes. The Compliance Approach will be used to determine these components. Prerequisite: Junior standing. Credit, three hours.

**ACCT-312. ACCOUNTING FOR E-COMMERCE ORGANIZATIONS****3:3:0**

Students will examine the role of accounting in modern web-based businesses. Management decisions and reporting will be explored in terms of technology's impact on accounting and record keeping. Internet and traditional business transactions will be evaluated and compared in terms of domestic and global markets. Computerized models will be utilized and the role controls play in running Internet companies.

Prerequisites: ACCT-203.

Credit, three hours.

**ACCT-402. BUSINESS LAW****3:3:0**

The course addresses specific areas of law pertaining to commercial transactions with emphasis on legal concepts underlying sales of goods, commercial paper, partnerships, corporations, bankruptcy, and application of the Uniform Commercial Code.

Prerequisites: ACCT-302.

Credit, three hours.

**ACCT-405. ACCOUNTING INFORMATION SYSTEMS****3:3:0**

The course examines information systems with respect to critical characteristics of information that must be considered in the design and evaluation of a system and examines the key role enterprise systems and e-business play in businesses today. The course also covers documentation and design of relational databases. Finally, the course focuses on controls needed to reduce risk in the enterprise business processes.

Prerequisites: ACCT-423.

Credit, three hours.

**ACCT-410. INTERNATIONAL ACCOUNTING****3:3:0**

The course addresses international accounting concepts and standards from the perspective of international financial control and reporting to parties outside the firm, including an examination of the issues of transfer pricing and currency translation.

Prerequisites: ACCT-306.

Credit, three hours.

**ACCT-412. CORPORATE/PARTNERSHIP/ESTATE TAXATION****3:3:0**

The course addresses the Federal Income Taxation with emphasis upon: C-Corporations, S-Corporations, Partnerships, Estates, Trusts, and Tax Exempt institutions. The Compliance Approach will be used to determine the Federal Income Tax implications of these entities.

Prerequisites: ACCT-306.

Credit, three hours.

**ACCT-423. AUDITING I****3:3:0**

The course provides in-depth study of the duties and responsibilities of auditors, including types of audits and audit programs. It includes a review of accounting theory and principles and their application to the work of an auditor, as well as methods in internal control and their importance in the context of external auditing.

Prerequisites: ACCT-306.

Credit, three hours.

**ACCT-424. AUDITING II****3:3:0**

The course addresses advanced auditing issues and concepts and the application of generally accepted auditing standards, theories, and practices.

Prerequisites: ACCT-423.

Credit, three hours.

**ACCT-427. GOVERNMENTAL ACCOUNTING****3:3:0**

The course addresses accounting principles and practices of Governmental and Not-for-profit entities. The topics in the course will include: Appropriations Accounting, Fund Accounting, Revenue Recognition, Expenditure Accounting, Budget Presentation, and Financial Statements Presentation using GASB #34.

Prerequisites: ACCT-306.

Credit, three hours.



**ACCT-430. ADVANCED ACCOUNTING****3:3:0**

The course addresses the advanced accounting issues and concepts, including the following: consolidations, international accounting, partnerships, stock valuations, and interim and segment reporting.

Prerequisites: ACCT-306.

Credit, three hours.

**ACCT-432-FINANCIAL STATEMENT ANALYSIS****3:3:0**

Financial Statement Analysis, is a methods course that will provide students with an opportunity to develop skills in the following areas (1) analysis and interpretation of accounting numbers, including analysis of the business context in which they arise, (2) analyses of financial position, results of operations, and cash flows, and (3) application of these analyses when the goal is to inform investment decisions.

Prerequisite: FIN-300.

Credit, three hours.

**ACCT-450. INDEPENDENT STUDY****1-3:1-3:0**

The course provides an opportunity for students to participate in special research projects or to study contemporary issues in accounting.

Prerequisites: Consent of the Department Chair.

Credit, one to three hours.

**ACCT-460. SELECTED TOPICS****3:3:0**

The course is an in-depth study of a topic or current interest in the Accounting area.

Prerequisites: Senior status.

Credit, three hours.

**ACCT-490. INTERNSHIP****3-6:3-6:0**

The course provides an opportunity for students to gain practical accounting experience through on-the-job assignments at businesses and other institutions.

Prerequisites: Consent of the Department Chair. Credit, three to six hours.

## **DEPARTMENT OF BUSINESS ADMINISTRATION**

**Chair:** Beugré

**Professors:** Awadzi, Beugré, Kim, Mayo

**Associate Professors:** Rodriguez, Sadoughi, Thomas-Haysbert, Viswanathan, Wilson

**Assistant Professors:** Mahee, Nunlee, Pinjani

The curriculum in Business Administration provides students the opportunity to acquire a broad professional education in several areas of business and management specializations, leading to Bachelor of Science degrees in Management or Hospitality and Tourism Management.

With a Bachelor of Science degree in Management, a student can select from a variety of concentrations, which provide in-depth understanding of specific functional areas. The areas of concentration are:

- Business Economics
- Finance and Banking
- General Management
- Human Resource Management
- Management Information Systems
- Marketing

Through its curricula and co-curricula programs and activities, the Department of Business Administration seeks to achieve the following major objectives:

- To provide a learning environment conducive to developing the knowledge bases, competencies, and other skills required for leadership positions in business, government, and other work organizations.
- To provide an integrative experience and problem-based program of study.
- To provide students with a multidisciplinary foundation to understand the complexities of organizational management in the context of external factors such as the economy, technology, competition, and globalization.
- To prepare students with the competencies necessary to pursue graduate studies in management-related disciplines and other fields of study.
- To provide advanced studies in management, through quality graduate programs.

### **MANAGEMENT MAJOR CONCENTRATIONS**

Concentrations provide a depth of understanding in a specific functional area of specialization within management. A concentration consists of eighteen (18) credit hours beyond the required core courses. Concentrations are provided in the areas of: Business Economics, Finance and Banking, General Management, Human Resource Management, Management Information Systems, and Marketing.

#### **Business Economics (40)**

The Business Economics concentration will prepare students for careers in business, government, law, or academics by providing them with a sound understanding of economic theory and the ability to apply the tools of economic analysis in decision-making. The analytical and quantitative skills developed in this concentration will enhance the students' career opportunities in a rapidly changing economy, which requires that individuals be able to absorb new information quickly. The concentration in Business Economics consists of eighteen (18) credit hours. Twelve (12) of these credits are required, and six (6) may be satisfied by choosing elective courses in Business Economics. The additional hours must be selected in consultation with the student's Advisor.

### **Finance and Banking (43)**

Students choosing to concentrate in Finance and Banking will master the functional areas of the field including the study of financial management, investments, financial markets and institutions, international finance, and new venture financing. Students are prepared as professionals skilled in the acquisition, development, and utilization of funds for economic and social purposes. Students can also choose the option of pursuing graduate studies. The concentration in Finance and Banking consists of eighteen (18) credit hours. Twelve (12) of these credits are required, and six (6) may be satisfied by choosing from elective courses in Finance and Banking listed. The additional hours must be selected in consultation with the student's Advisor.

### **General Management (41)**

The concentration in General Management is most appropriate for students who have a broad-based interest in the field of management rather than a single area of concentration. This program of study prepares students for careers as leaders of all types of organizations including government, non-profit, and business. Students are required to complete a total of eighteen (18) credit hours to earn a concentration in General Management. Students with a concentration in General Management are also required to complete at least one (1) upper division three (3) credit hour course in each of at least three (3) different areas within the College of Business.

### **Human Resource Management (53)**

This concentration focuses on the management of the personnel resources of an organization. Management issues such as planning and forecasting human resource needs, recruiting, maintaining, developing and motivating personnel, succession planning, and compensation are covered. The Human Resource Management concentration prepares students for graduate studies and entry-level positions in areas such as compensation and benefits planning, industrial relations, personnel analysis, and performance analysis and evaluation. Students are required to complete a total of eighteen (18) credit hours in the field for a concentration in Human Resource Management. Twelve (12) of these credits are required, and six (6) may be satisfied by choosing from elective courses in Human Resource Management. The additional hours must be selected in consultation with the student's Advisor.

### **Management Information Systems (MIS) (52)**

Management Information Systems involves the management of an inter-related set of components that collect, process, store, and distribute information to support decision-making and control in an organization. Students explore computer hardware and software, networking computers to share data, programming languages, specialized software, communications software, and the Internet. Graduates of the MIS program will be prepared for graduate studies and for positions as software and network analysts, programmers, data analysts, and systems analysts. Students are required to complete a total of eighteen (18) credit hours in the field for a concentration. Fifteen (15) of these credits are required, and three (3) may be satisfied by choosing from elective Management Information Systems courses. The additional hours must be selected in consultation with the student's Advisor.

### **Marketing (46)**

The Marketing concentration focuses on the strategic planning and systems development necessary to facilitate the exchanges crucial to modern organizational and business success. Careers in marketing include advertising, product management, public relations, customer service, sales, retailing, research, market analysis, and data management, as well as international marketing, trade, and distribution. Students also have the option to pursue graduate studies in their area of concentration. Students interested in marketing should be willing to think creatively and possess, or be willing to develop, good analytical and communications skills. A Marketing concentration consists of eighteen (18) credit hours of marketing courses. Fifteen (15) of these credits are required, and three (3) may be satisfied by choosing

one (1) of the elective courses in Marketing. The additional hours must be selected in consultation with the students' Advisor.

### **Hospitality & Tourism Management Major (45)**

Students who major in Hospitality and Tourism Management (HTM) are prepared to become management professionals who possess the hospitality, entrepreneurial, and leadership skills necessary to make positive contributions to the industry. Students with this major are prepared to assume entry level management and leadership positions in varied facets of this dynamic industry. HTM requires twenty-five (25) credit hours of Hospitality and Tourism Management courses, and three (3) credit hours of Hospitality and Tourism Management electives.

The Hospitality Management Program prepares students to become management professionals who possess the hospitality, entrepreneurial, and managerial skills and competencies necessary to make positive contributions to the hospitality industry, including enhancing operational efficiency and effectiveness – and the financial viability – of organizations in the hospitality industry.

Through the curriculum and related organizations and activities, the Hospitality & Tourism Management program seeks to promote the accomplishment of the following objectives:

- To design and continuously monitor a curriculum consistent with the needs of the hospitality industry and the community, with mechanisms for implementing change as the industry changes.
- To prepare students with a common body of knowledge in hospitality administration to include effective oral and written communications skills, food production, procurement management, leadership evaluation, control techniques, accountability, entrepreneurial strategies, and computer literacy.
- To prepare students to accept leadership roles through classroom seminars and in-service learning.
- To prepare students to solve managerial and business problems and make rational and effective managerial decisions.

**B.S. DEGREE IN MANAGEMENT – BUSINESS ECONOMICS (40)**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-191	University Seminar I ^	1	MGMT-192	University Seminar II^	1
MTSC-121	College Algebra ^	3	MTSC-125	Finite Math^	3
MVSC-100	Lifetime Fitness & Wellness ^	2	MIS-105	Microcomputer Applications	3
ENGL-101	English Composition I ^	3	ENGL-102	English Composition II ^	3
xx-xxx	Natural Science Elective #	3	xx-xxx	Social Science Elective #	3
HIST-xxx	History Elective #	3	xx-xxx	Foreign Language I ^	3
Total Credits		15	Total Credits		16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-xxx	Literature Elective #	3	xx-xxx	Arts/Humanities Elective #	3
xx-xxx	Foreign Language II ^	3	MGMT-208	Intro to Statistics	3
ACCT-201	Accounting I	3	MGMT-205	Management Processes	4
MTSC-225	Calculus for Business ^	3	ACCT-203	Accounting for Decision Making	3
ECON-201	Macroeconomics	3	ECON-202	Microeconomics	3
MGMT-255	Professional Development I	1			
Total Credits		16	Total Credits		16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech ^	3	GLST-395	Global Societies ^	3
FIN-300	Managerial Finance	3	ACCT-302	Legal Environment	3
ECON-301	Intermediate Macroeconomics	3	MGMT-306	Operations Management	3
MGMT-305	Management Information Systems	3	MGMT-256	Professional Development II	1
MKT-300	Principles of Marketing	3	ECON-308	Statistical Analysis II	3
			41-201	Managerial Communications *	3
Total Credits		15	Total Credits		16
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-	Organizational Behavior	3	MGMT-	Strategic Management **	3

325			445		
MGMT-440	International Management	3	ECON-414	Money and Banking	3
ECON-400	Managerial Economics	3	ECON-xxx	Economics Elective	3
ECON-xxx	Economics Elective	3	xx-xxx	COB Elective	3
xx-xxx	Free Elective	3			
	Total Credits	15		Total Credits	12

^ Must receive a “C” or better in all COB courses and all courses marked with a -△”

# See catalog for acceptable electives, 1 course must cover African American Experience

\*Writing Intensive

\*\* Senior Capstone in College of Business

Total Credits: 121
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**The Program’s Across-the-Curriculum Guide must be consulted for requirements and/or options.**

## **BUSINESS ECONOMICS (40)**

### **201. PRINCIPLES OF MACROECONOMICS.**

**3:3:0**

This course is a 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, business cycles, money and banking, growth, and development. Prerequisites: Sophomore standing. Credit, three hours.

### **202. PRINCIPLES OF MICROECONOMICS.**

**3:3:0**

This course is a study of price and output determination in a free enterprise economy, with the assumption of consumer maximization of utility and producer maximization of profits. Prerequisite: ECON-201. Credit, three hours.

### **301. INTERMEDIATE MACROECONOMICS.**

**3:3:0**

This course provides a comprehensive analysis of macroeconomic concepts and theories, including the following: the aggregate economic activities of national output, employment, price levels, and interest rates; the aggregate theory of consumption, investment, and the demand and supply of money; economic growth, and inflation; unemployment, and the effectiveness of monetary and fiscal policies. The course also addresses classical, neoclassical, Keynesian, new classical, monetarist, and rational expectations models of closed and open economies. Prerequisites: ECON-201 and ECON-202. Credit, three hours.

### **303. MATHEMATICAL ECONOMICS.**

**3:3:0**

This course addresses the logic and structure of mathematics as applied to economics. Use of mathematics in the fundamental propositions of microeconomics and macroeconomics is emphasized. Topics covered include mathematical programming, differential and difference equations, and game theory, as well as other deterministic and stochastic modes. Prerequisites: ECON- 202, MGMT-208, and MTSC-225. Credit, three hours.

### **208. INTRODUCTORY STATISTICS**

**3:3:0**

This course introduces the concept of applied statistics. It addresses the following topics: data presentation; measures of central tendency; measures of variation, skewness, and kurtosis; basis probability concepts; probability distributions; sampling distributions estimation; and hypothesis testing. Credit Hours: 3

### **308. STATISTICAL ANALYSIS II FOR BUSINESS AND ECONOMICS.**

**3:3:0**

This course focuses on applications of statistical techniques to economics and business. The course addresses the chi-square distribution, analysis of variance, simple and multiple regression analysis, time-series analysis, and forecasting. Statistical software packages are utilized. Prerequisite: 41- 208. Credit, three hours.

### **310. INTRODUCTION TO ECONOMETRIC ANALYSIS. 3:3:0**

This course examines statistical methods applied to the analyses of economic models and data. It emphasizes multiple regression analysis, multicollinearity, seasonality, heteroscedasticity, auto correlation, dummy variables, time series analysis, distribution lags, and simultaneous equations. Statistical software packages are utilized. Prerequisite: MGMT-208 and ECON-308. Credit, three hours.

### **400. MANAGERIAL ECONOMICS.**

**3:3:0**

This course focuses on the application of microeconomic principles to the firm, from the perspective of the manager. Topics covered include demand analysis, production and cost analysis, linear programming, market structure and competitive strategies, pricing practices, decision making under uncertainty, and capital budgeting. Prerequisites: ECON-202, ECON-208. Credit, three hours.

### **401. PUBLIC FINANCE.**

**3:3:0**

This course is a study of the theory of public finance, principles and practices of federal, state, and local taxation, expenditures and budgeting, the public debt and fiscal policy, including their impacts upon aggregate economic activities and resource allocation. Prerequisite: FIN-300. Credit, three hours.

**414. MONEY AND BANKING.****3:3:0**

This course is a study of the commercial banking system, non-bank financial institutions, the Federal Reserve System, monetary theory and policy, and debt management. Prerequisites: ECON-201 and ECON-202. Credit, three hours.

**415. INTERNATIONAL ECONOMICS AND TRADE.****3:3:0**

This course examines the theory and practice of international trade and finance. It includes consideration of the following: the theories of comparative advantage and international specialization, trade policies and trade restrictions, foreign exchange markets and balance of payments, international trade systems, financial problems of foreign operations, transfer of funds and investment decisions. The course emphasizes operational and financial problems of multinational business entities. Prerequisites: ECON-301. Credit, three hours.

**450. INDEPENDENT STUDY.****3:3:0**

This course provides an opportunity for students to participate in special research projects or to study contemporary issues in Business Economics. Prerequisite: Permission of departmental chairperson. Credit, one to three hours.

**-xxx SELECTED TOPICS.****3:3:0**

This course is an in-depth study of a topic of current interest in the Business Economics areas. Prerequisite: Senior standing. Credit, three hours.

**490. INTERNSHIP.****3:3:0**

This course provides an opportunity for students to gain practical experience in business economic analysis through on-the-job assignments in businesses, government agencies, and/or other work- organizations. Prerequisite: Permission of the departmental chairperson. Credit, three to six hours.



**B.S. DEGREE IN MANAGEMENT - FINANCE AND BANKING (FIN)**  
**Effective Fall 2011**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-191	University Seminar I ^	1	MGMT-192	University Seminar II ^	1
MTSC-121	College Algebra ^	3	MTSC-125	Finite Math ^	3
MVSC-100	Lifetime Fitness & Wellness ^	2	MIS-105	Microcomputer Applications	3
ENGL-101	English Composition I ^	3	ENGL-102	English Composition II ^	3
xx-xxx	Natural Science Elective #	3	xx-xxx	Social Science Elective #	3
HIST-xxx	History Elective #	3	xx-xxx	Foreign Language I ^	3
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-xxx	Literature Elective #	3	ENGL-xxx	Arts/Humanities Elective #	3
xx-xxx	Foreign Language II ^	3	MGMT-205	Management Processes	4
ACCT-201	Accounting I	3	ACCT-203	Accounting for Decision Making	3
MTSC-225	Calculus for Business ^	3	MGMT-208	Intro to Statistics	3
ECON-201	Macroeconomics	3	ECON-202	Microeconomics	3
MGMT-255	Professional Development I	1			
	Total Credits	16		Total Credits	16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech ^	3	GLST-395	Global Societies ^	3
ACCT-302	Legal Environment	3	FIN-315	Financial Markets & Institutions	3
FIN-300	Managerial Finance	3	MKT-300	Principles of Marketing	3
MGMT-305	Management Info Systems	3	MGMT-256	Professional Development II	1
MGMT-201	Managerial Communications*	3	MGMT-306	Operations Management	3
			FIN-xxx	Finance & Banking Elective	3
	Total Credits	15		Total Credits	16
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-	Organizational Behavior	3	MGMT-	Strategic Management **	3

325			445		
MGMT-440	International Management	3	FIN-420	Commercial Bank Management	3
FIN-xxx	Finance & Banking Elective	3	FIN-449	Senior Seminar in Finance Mgmt	3
FIN-418	Investments	3	xx-xxx	Free Elective	3
xx-xxx	COB Elective	3			
	Total Credits	15		Total Credits	12

^ Must receive a “C” or better in all COB courses and all courses marked with a –△”

# See catalog for acceptable electives, 1 course must cover African American Experience

\*Writing Intensive

\*\* Senior Capstone in College of Business

Total Credits: 121
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

## **FINANCE AND BANKING (FIN)**

### **102 – MONEY MATTERS**

**3:3:0**

The course provides an overview of personal and family financial planning with an emphasis on financial recordkeeping, budgeting, consumer credit, making buying decisions, purchasing insurance, selecting investments, and retirement planning. The course will provide the tools necessary to secure basic household needs, like cash management and consumer credit. Students will learn how to manage student loans and credit cards.

Prerequisite: None.

Credit, three hours.

### **300. MANAGERIAL FINANCE**

**3:3:0**

The concepts developed in this course form the foundations for the area of finance. Major topics may include time value of money, valuation of stocks and bonds, risk and return, capital budgeting techniques, financial ratio analysis, capital structure and dividend policy.

Prerequisites: ECON-208, ACCT-205.

Credit, three hours.

### **315. FINANCIAL MARKETS & INSTITUTIONS**

**3:3:0**

This course examines structures, functions and regulations of the money markets and capital markets. It also addresses financial management aspect of different financial institutions including banks, funds management companies, and insurance companies.

Prerequisite: FIN-300.

Credit, three hours.

### **316. RISK MANAGEMENT & INSURANCE**

**3:3:0**

This course provides examination of credit and risk and their importance in personal and business activities. The focus is on the process involved in supplying credit to borrowers by financial institutions and methods of handling credit and risk.

Prerequisite: FIN-300.

Credit, three hours.

### **320. PERSONAL FINANCIAL PLANNING**

**3:3:0**

This course offers the basics of financial planning, and addresses the relationships between consumers of financial services and the products offered by financial intermediaries, investment brokerages, insurance companies, credit agencies, and nonbank financial institutions. The course addresses checking and money market accounts, budgeting, taxes, investments, real estate, insurance, retirement, and estate planning in order to live better financially.

Prerequisite: None.

Credit, three hours.

### **418. INVESTMENTS**

**3:3:0**

This course addresses principles in developing optimal portfolio strategies in meeting the objectives of individual and institutional investors. It discusses a variety of quantitative methods and qualitative concepts in the valuation of security prices.

Prerequisite: FIN-300. Credit, three hours.

### **420. COMMERCIAL BANK MANAGEMENT**

**3:3:0**

This course addresses the functioning and management of commercial banks and other financial institutions including the flow of funds and role of interest rate in money and capital markets; asset and liability management; interest rate risk management; supply of loan funds and demand for funds in mortgage loan market, consumer credit market, corporate securities markets, and municipal obligations; and the effects of Federal Reserve and Treasury policies on financial markets.

Prerequisite: FIN-300. Credit, three hours.

**424. NEW VENTURE FINANCE & INVESTMENT****3:3:0**

In this course the process and techniques of financing new ventures and investing in fledgling companies are examined in detail. The issue of debt versus equity financing and a variety of financing vehicles and sources will be examined in the context of new and small ventures in the process of expansion and emerging E-Commerce/E-Business enterprises are discussed. Case studies will be utilized to illustrate creative solutions to the structuring of new venture financing.

Prerequisite: FIN- 300.

Credit, three hours.

**441. INTERNATIONAL FINANCIAL MANAGEMENT****3:3:0**

This course examines the international financial environment and financial management of multinational corporations including foreign exchange risk management, sources and instruments of financing foreign operations, foreign investment analysis, and multinational working capital management.

Prerequisites: FIN-300, FIN-315, Senior Standing.

Credit, three hours.

**445. SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT****3:3:0**

This course develops and hones skills for security analysis and portfolio management. The course will be useful for students seeking career in investment industry, personal finance business and also corporate finance specialist who deal with investor relations. It covers the factors influencing the valuation of financial securities: earnings forecasts and expectations, uncertainty, required returns, supply and demand for securities and funds, level of interest rates, and investors' attitudes. It 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.

Prerequisites: FIN-318

Credit, three hours.

**449 ADVANCED FIANCIAL PLANNING****3:3:0**

This course offers selected topics on current issues pertaining to finance and other related areas of interest including derivatives, mergers and acquisitions, and financial engineering.

Prerequisites: FIN-300, FIN-315, Senior Standing.

Credit, three hours.

**450. INDEPENDENT STUDY****1-3:1-3:0**

This course provides an opportunity for students to participate in special research projects or to study contemporary issues in Finance.

Prerequisite: Permission of departmental chairperson.

Credit, one to three hours.

**462. SELECTED TOPICS****3:3:0**

This course is an in-depth study of a topic of current interest in the Finance area.

Prerequisite: Senior Standing. Credit, three hours.

**490. INTERNSHIP****3-6:3-6:0**

This course provides an opportunity for students to gain practical financial experience through on- the-job assignments at businesses and institutions. Prerequisite: Permission of the departmental chairperson.

Credit, three to six hours.

**B.S. DEGREE IN MANAGEMENT - GENERAL MANAGEMENT (MGMT)**  
**Effective Fall 2011**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-191	University Seminar I	1	MGMT-192	University Seminar II	1
MTSC-121	College Algebra	3	MTSC-225	Calculus for Business	3
MVSC-100	Lifetime Fitness & Wellness	2	MIS-105	Microcomputer Applications	3
ENGL-101	English Comp I	3	ENGL-102	English Comp II	3
xx-xxx	Natural Science Elective	3	xx-xxx	Foreign Language I	3
HIST-203 or HIST-204	History Elective	3	PSYC-201	Intro to General Psychology	3
Total Credits		15	Total Credits		16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
xx-xxx	Foreign Language II	3	GLST-101	Critical Thinking or Foreign Language III	3
ACCT-201	Accounting I	3	ACCT-203	Accounting for Decision Makers	3
MTSC-125	Finite Math	3	MGMT-208	Intro to Statistics	3
ECON-201	Macroeconomics	3	ECON-202	Microeconomics	3
MGMT-255	Professional Development I	1	MGMT-256	Professional Development II	1
ENGL-201 or ENGL-205	World Literature I or African American Literature I	3	MGMT-205	Management Processes	4
Total Credits		16	Total Credits		17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	GLST-395	Global Societies	3
ACCT-302	Legal Environment	3	HRM-320	Personnel/HR Management	3
FIN-300	Managerial Finance	3	MKT-300	Principles of Marketing	3
MGMT-305	Management Info Systems	3	MGMT-306	Operations Management	3
MGMT-201	Managerial Communications*	3	MGMT-xxx	General Mgmt Requirement	3
Total Credits		15	Total Credits		15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-	Organizational Behavior	3	MGMT	Strategic Management**	3

325			-445		
MGMT-440	International Management	3	FIN/MKT/MIS/HRM	Specific Management Requirement	3
MGMT-xxx	General Mgmt Requirement	3	43/46/52/53	Specific Management Requirement	3
MGMT-xxx	General Mgmt Requirement	3	xx-xxx	COB/Free Elective	3
43/46/52/53	Specific Management Requirement	3			
	Total Credits	15		Total Credits	12

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

**Grade of „C“ or better required for all courses**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 121
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## **MANAGEMENT (MGMT) (41)**

### **MGMT-105. MANAGEMENT PROCESSES**

**0-4:0-4:0**

This is a cornerstone Integrated Management Course (IMC) which will orient students to the opportunities and challenges managers face in contemporary organizations in a domestic and global context. Students are introduced to the inter-relationships among the organizational functions of marketing, management, production, and finance. Students will develop competencies of teamwork, communication, creative thinking, and change management. They will be charged with the responsibility to develop, operate, and exit a new enterprise.

Prerequisites: 12 credit hours.

Credit, four hours.

### **MGMT-191. UNIVERSITY SEMINAR I – MANAGEMENT**

**1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **MGMT-192. UNIVERSITY SEMINAR II – MANAGEMENT**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **MGMT-201. MANAGERIAL COMMUNICATIONS**

**3:3:0**

This is a practical intensive course focusing on both written and oral presentation skills. Problems, issues, and technology of organizational communication are analyzed through written and oral presentations, case studies, experiential exercises, and projects. Students will learn to write and speak clearly and effectively by focusing on style, organization, strategy, and persuasion. The course will also include a discussion of speaking formats, delivery, organization, and use of multi-media technology. The course is intended to improve managerial effectiveness in negotiation, persuasion, and communication.

Prerequisites: ENGL-102.

Credit, three hours.

### **MGMT-208. INTRODUCTORY STATISTICS**

**3:3:0**

The course introduces the concept of applied statistics. It addresses the following topics: data presentation; measures of central tendency; measures of variation, skewness, and kurtosis; basis probability concepts; probability distributions; sampling distributions estimation; and hypothesis testing.

Prerequisites: MTSC-121.

Credit, three hours.

### **MGMT-255. PROFESSIONAL DEVELOPMENT I**

**1:1:0**

The Professional Development I course will assist students in examining the components of career choice. The focus is on career and personal awareness, professional dress, and academic excellence as they relate to career choice and career mobility. Planning skills and self-assessment instruments will help identify tentative career options. Decision-making strategies, credential-building activities, resume writing, interviewing skills, and job search techniques will be reviewed.

Credit, one hour.

**MGMT-256. PROFESSIONAL DEVELOPMENT II****1:1:0**

The Professional Development II course provides a study of leadership fundamentals and basic elements essential for understanding, developing, strengthening, and practicing good leadership toward furthering business advancement and lifelong learning. Classroom focus is on understanding the Leadership Formula for enhancing ability to lead, influence, motivate, empower, and foster positive attitudes by maximizing human relationships, effective communication, decision-making strategies, and a positive force.

Credit, one hour.

**MGMT-257. PROFESSIONAL DEVELOPMENT III****1:1:0**

Credit, one hour.

**MGMT-305. MANAGEMENT INFORMATION SYSTEMS****3:3:0**

The application of information systems to organizational decision-making and operations is the focus of this course. Topics include: fundamentals of information system development, management and structures of databases, query processing and report generation using computer and non-computer concepts, computer-human interface, end-user computing, and data communications and network.

Prerequisites: MGMT-205, MIS-105.

Credit, three hours.

**MGMT-306. OPERATIONS MANAGEMENT****3:3:0**

Production and Operations planning concepts and analytical systems will be the central theme of this course. Designing and managing production processes, facilities, and process control are discussed. Topics include demand forecasting, material planning, acquisition techniques, scheduling, total quality management, and continuous improvement concepts and methods.

Prerequisites: MGMT-205, MGMT-208, MTSC-225.

Credit, three hours.

**MGMT-320. HUMAN RESOURCE MANAGEMENT****3:3:0**

A comprehensive study of the functions and responsibilities of the Human Resource Manager is offered in the course. Topics include: employee selection, job-design, performance appraisal, training and development, career planning and management, managing a diverse workforce, safety, health, and the role of the labor relations manager. Responsibilities and relationships with other managers and employees are covered. Discussion of the HR function in other countries is also included.

Prerequisites: 41-205, Junior status.

Credit, three hours.

**MGMT-325. ORGANIZATIONAL BEHAVIOR****3:3:0**

The course addresses the application of behavioral science theories and research to understanding the behavior of persons in the work place with an emphasis on factors that impact workers' morale, group dynamics, and worker efficiency.

Prerequisites: MTSC-205, Junior status.

Credit, three hours.

**MGMT-341. BUSINESS ETHICS****3:3:0**

The course will be devoted to an examination of some of the ethical issues that arise in the field of business. Specific topics to be considered include: business ethics and ethical theory, the moral status of corporations, ethical codes of conduct in business, truth and advertising, the rights and duties of employees, affirmative action, and environmental issues in business.

Prerequisites: Junior status.

Credit, three hours.



**MGMT-420. ORGANIZATIONAL BEHAVIOR****3:3:0**

The course addresses the application of behavioral science theories and research to understanding the behavior of persons in the work place with an emphasis on factors that impact workers' morale, group dynamics, and worker efficiency.

Prerequisites: MGMT-205, Junior status.

Credit, three hours.

**MGMT-425. ORGANIZATIONAL DEVELOPMENT AND CHANGE****3:3:0**

The course offers an examination of major behavioral issues in the management of organizations. Topics include power and influence in organizations, conflict management, individual and group behavior, communication, attitudes, values, organizational politics, leadership, motivation, and performance. Students will also discuss factors that influence organizational change, strategies for planned change, the role of organizational culture in the change process, and the development of support systems and structures.

Prerequisites: MGMT-320 or HRM-320, MGMT-325.

Credit, three hours.

**MGMT-435. ENTREPRENEURSHIP****3:3:0**

The entrepreneurial model is used as a prototype. It is the basics of developing a new enterprise. Students begin with the elements of how to identify new business ideas and opportunities, sources of venture ideas, and franchising opportunities. They develop a business plan for a start-up firm; establish the feasibility for the new idea; prepare a marketing audit to determine the potential organization's strategic position; and develop strategies, budgets, tactics, and activities to implement the new business idea. This is an applied course and students are expected to work in small groups to create and implement a new venture idea.

Prerequisites: Junior Status.

Credit, three hours.

**MGMT-437. MANAGERIAL DECISION-MAKING AND PROBLEM SOLVING****3:3:0**

The course offers an analysis of rational management decision making under conditions of risk and uncertainty with an emphasis on the analysis of problems with multiple competitive objectives in industry and government.

Prerequisites: MGMT-325.

Credit, three hours.

**MGMT-440. INTERNATIONAL MANAGEMENT****3:3:0**

A survey of the major issues faced by a manager operating in an international environment is the focus of the course. The aim of the course is to examine how different national and cultural environments affect the way that multinational companies (MNCs) operate from one country to the next. Topics include: an overview of global management, cultural environment, why firms internationalize operations, international human resource management, cross-cultural communication and decision-making, international strategies, and organizing international enterprises.

Prerequisites: Senior status.

Credit, three hours.

**MGMT-445. STRATEGIC MANAGEMENT****3:3:0**

This senior capstone Integrated Management Course is intended to apply theoretical concepts to a variety of organizational situations from a top-management perspective. The course also satisfies our General Education Requirement for a senior capstone course. The concepts and techniques of strategic management in organizations will be the focus of the course. Topics include developing a strategic vision, setting objectives, and crafting a strategy. Students will be expected to develop a competitive analysis portfolio, match strategy to an organization's situation, build resource capabilities, support systems, budgets, policies, align culture and strategy, and structure the organization to implement the organization's strategic vision in a dynamic global marketplace. The course is team-taught.

Prerequisites: Last semester of coursework, MGMT-305, MGMT-306, MGMT-325, ACCT-302, FIN-300, MKT-300.

Credit, three hours.

**MGMT-450. INDEPENDENT STUDY IN MANAGEMENT****3:3:0**

The course provides an opportunity for students to participate in special research projects or to study contemporary issues in Management.

Prerequisites: Consent of the Department Chair.

Credit, one to three hours.

**MGMT-490. INTERNSHIP****3:3:0**

The course provides an opportunity for students to gain practical management experience through on-the-job assignments with approved organizations.

Prerequisites: Consent of the Department Chair.

Credit, three to six hours.

**MGMT-495. COOPERATIVE EDUCATION****1-6:1-6:0**

Cooperative Education allows students to combine academic study with on-the-job experience by working on paid training assignments coordinated by the Department. The objective of cooperative education is the application of theory.

Prerequisites: Consent of the Instructor.

Credit, one to six hours.

**MGMT-499. SELECTED TOPICS****3:3:0**

This course is an in-depth study of a topic of current interest of the Management areas.

Prerequisites: Senior Standing.

Credit, three hours.

**B.S. DEGREE IN HOSPITALITY & TOURISM MANAGEMENT (45)**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-191	University Seminar I	1	MGMT-192	University Seminar II	1
MTSC-121	College Algebra	3	MTSC-125	Finite Mathematics	3
MVSC-100	Fitness and Wellness	2	HTM-108	Intro to Tourism Concepts*	3
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
HTM-100	Introduction to Hospitality & Tourism*	3	xx-xxx	Natural Science Elective	3
HIST-xxx	History Elec. 203 or 204	3	MIS-105	Microcomputer Applications	3
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-xxx	Literature I	3	MGMT-201	Managerial Communications*	3
HTM-207	Sanitation and Safety*	3	MGMT-205	Management Processes	4
ACCT-201	Accounting I	3	ACCT-203	Accounting for Decision Makers	3
MTSC-225	Calculus for Business	3	MGMT-208	Intro to Statistics	3
ECON-201	Principles of Macroeconomics	3	ECON-202	Principles of Microeconomics	3
MGMT-255	Professional Development I	1	HTM-214	Internship I*	1
	Total Credits	16		Total Credits	17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	GLST-395	Global Societies	3
HTM-305	Hospitality Cost Control	3	HTM-314	Internship II*	3
HTM-311	Food Production	3	PSYC-201	Intro. to General Psychology	3
HTM-355	Lodging Operations Mgmt.	3	HTM-345	Restaurant Management	3
MKT-300	Principles of Marketing	3	xx-xxx	Arts/Humanities Elective	3
			MGMT-256	Professional Development II	1
	Total Credits	15		Total Credits	16
Senior Fall Semester			Senior Spring Semester		

Course	Course Name	Cr	Course	Course Name	Cr
MGMT-325	Organizational Behavior	3	MGMT-445	Strategic Management**	3
MGMT-440	International Management	3	HTM-417	Hospitality Law& Legal Environment*	3
HTM-490	Event Planning and Management*	3	HTM-449	HTM Managerial Finance/Accounting for HTM*	3
HTM-xxx	HTM Elective	3	xx-xxx	Foreign Language II	3
xx-xxx	Foreign Language I	3			
	Total Credits	15		Total Credits	12

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

**A minimum grade of „C“ is required for all courses**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 122
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## **HOSPITALITY MANAGEMENT (HTM) (45)**

### **HTM-100. INTRODUCTION TO THE HOSPITALITY INDUSTRY**

**3:3:0**

The course provides students with the basic knowledge and concepts related to all aspects of the hospitality industry including: lodging, marketing, accounting management, event management, food services management, retail and casino management, and emphasizing the tracing of the hospitality industry's growth and development to present day and future trends. Students begin an assessment portfolio that is used throughout the years at Delaware State University and after graduation.

Credit, three hours.

### **HTM-108. INTRODUCTION TO TOURISM CONCEPTS**

**3:3:0**

The course is designed to provide students with knowledge and concepts of tourism and travel development and management that are currently used, given economic conditions of the world. Practical applications are included to effectively apply the concepts to the hospitality and tourism industry.

Credit, three hours.

### **HTM-191. UNIVERSITY SEMINAR I – HOSPITALITY MANAGEMENT**

**1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **HTM-192. UNIVERSITY SEMINAR II – HOSPITALITY MANAGEMENT**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **HTM-207. SANITATION AND SAFETY**

**3:3:0**

The course covers the principles and practices of sanitation and hygiene as applied to the entire industry, especially the food industry. Emphasis is placed upon the training of supervisory personnel in sanitation and safety procedures. Students will have an opportunity to apply the concepts in a practical, on-the-job learning experience by implementing self-inspection and training for food service establishments. Successful completion of the course will qualify students for National Institute of the Food Service (NIFI) National Sanitation Certification.

Credit, three hours.

### **HTM-210. HOSPITALITY PURCHASING**

**3:3:0**

The course introduces the student to methods of purchasing hospitality goods and services in large quantities. It emphasizes hospitality product standards and specifications, purveyor-customer relationships, buying procedures, and control systems.

Prerequisites: HTM-311.

Credit, three hours.

**HTM-214. INTERNSHIP I****1:1:0**

The course requires off-campus hospitality work experience that introduces students to the challenges faced by managers in the hospitality industry. The course requires that students complete research assignments (to investigate hospitality industry problems), and a minimum of 240 documented work hours. The assignments are presented in a portfolio format.

Prerequisites: Sophomore status.

Credit, one hour.

**HTM-305. HOSPITALITY COST CONTROL****3:3:0**

The course provides requisite competencies related to the application of cost controls and the development and implementation of systems of controls based on mission, goals, and objectives of the hospitality operations related to foods and beverages, labor, and supplies. An analysis of techniques currently used to generate revenue while controlling cost drivers is emphasized.

Prerequisites: Satisfactory completion of all 25-courses.

Credit, three hours.

**HTM-311. FOOD PRODUCTION MANAGEMENT****3:3:0**

The course addresses the study of food groups, their nutritional value, methods of preparation, cooking presentations, holding, and service techniques. Some attention will be given to the application of scientific principles in the preparation of a wide variety of foods. Students will prepare recipes, menus, and production schedules as well as acquire the ability to recognize properly prepared foods through preparing, tasting, and evaluating foods. Students will also develop an awareness of potential production problems, especially in the areas of sanitation and safety, and how to troubleshoot them. Students will attend one (1) lecture and four (4) lab hours per week.

Prerequisites: HTM-207.

Credit, three hours.

**HTM-314. INTERNSHIP II****3:3:0**

Students are required to work a minimum of nine (9) weeks (on a full-time basis) during the Summer, Fall, or Spring semester in a supervised work experience. A detailed portfolio with a journal, pictures, documented work hours, evaluations, and solutions to specified situations is required. Students must participate in the internship seminar held during the Fall semester following the internship. Three-hundred and sixty (360) documented hours are required. Students must also be registered for internship during the time they are participating in a work/internship experience.

Prerequisites: HTM-214.

Credit, three hours.

**HTM-327. FACILITIES DESIGN AND MAINTENANCE****3:3:0**

The course includes a study of basic engineering, public safety, building codes, equipment selection, and design procedures related to the hospitality industry. Students must complete a hospitality facilities design project.

Credit, three hours.

**HTM-345. RESTAURANT MANAGEMENT****3:3:0**

The course requires each student to participate as a manager of a full-service restaurant operation. Lectures will include topics relating to the general management of restaurants. These topics will address the issues involved in defining a service philosophy, improving profit margins, securing adequate supplies, identifying target markets, and planning for organizational growth. Many aspects of production and service in a full-service restaurant will be experienced, discussed, and demonstrated. A certification test is a component of the course.

Prerequisites: HTM-207, HTM-311.

Credit, three hours.

**HTM-355. LODGING OPERATIONS MANAGEMENT****3:3:0**

The course is an analysis of the historical development of lodging and innkeeping. Principles of operation, and lodging classifications and ratings, as well as, aspects of the interactions between the guest services department, housekeeping, accounting, reservations, food and beverage, and other departments will be studied. Thirty (30) hours of work experience is required in a lodging setting.

Prerequisites: Junior status.

Credit, three hours.

**HTM-405. SUPERVISION IN HOSPITALITY AND TOURISM MANAGEMENT****3:3:0**

An analysis of service requirements that predict supervision requirements in the Hospitality and Tourism industry and quantifiable standards are discussed based on the required behavior of supervisors. Aspects of current labor laws, standards of the industry, supervisory assessments, and industry practices are emphasized.

Prerequisites: HTM-355.

Credit, three hours.

**HTM-408. FOOD SERVICE SYSTEMS MANAGEMENT****3:3:0**

The course examines the organization, administration, and application of managerial techniques in food service systems. The course also addresses production, distribution, selection, and storage of food commodities, specification writing, personnel training, job analysis, morale, motivation, and computer applications.

Prerequisites: HTM-311.

Credit, three hours.

**HTM-415. CATERING MANAGEMENT****3:3:0**

The course explores off-premises catering for management and social functions. Other types of catering operations, such as sports and special events, will be explored as well. Topics include the following: organizational structure of catering operations, pricing strategies, presentation essentials, legal aspects of catering businesses, menu design for special functions and its operation implications, marketing from a caterer's point of view, function planning and management, staff recruitment, training and supervision, and post-event analysis.

Prerequisites: HTM-311.

Credit, three hours.

**HTM-417. HOSPITALITY LAW AND LEGAL ENVIRONMENT****3:3:0**

An analysis and assessment of laws related to the operation of each of the Hospitality and Tourism components. Laws related to human resources, licensure requirements, contract negotiations, civil rights, food and beverage service, innkeeping, and travel are emphasized. Financial systems such as yield management and REVPAR are emphasized. Case analysis, forums assessing court cases, and research related to lawmaking are included.

Prerequisites: Senior status.

Credit, three hours.

**HTM-418. CLUB OPERATIONS/BEVERAGE MANAGEMENT****3:3:0**

The course includes a detailed study of the classification, production, identification, and service of beverages (including alcohol). Emphasis is placed on the planning, development, operation, and management of clubs.

Prerequisites: HTM-210, HTM-305, HTM-311. Student must be twenty-one (21) years old.

Credit, three hours.

**HTM-419. GAMING****3:3:0**

The course introduces students to the multi-billion dollar gaming industry. The course includes a historical overview of gaming and examines legal, social, and economic issues within the industry. The course also reviews the various games played in casinos, the current trends, and the most popular casino destinations in the world. Special attention is devoted to the growth of casinos on cruise ships, on Indian reservations, and on riverboats in the United States.

Prerequisites: ACCT-201.

Credit, three hours.

**HTM-420. RESORT AND RECREATIONAL MANAGEMENT****3:3:0**

The course emphasizes a comprehensive approach to the operations of resort and recreational properties. Beginning with historical development, details are presented in planning, development, financial investment management, and marketing that deal with the unique nature of the resort business. The course also examines the future and the impact of the condominium concept, time-sharing, technological changes, and the increased cost of energy and transportation.

Prerequisites: Senior status.

Credit, three hours.

**HTM-425. TOURISM AND CASINO MARKETING****3:3:0**

The course provides an analysis of current and future marketing strategies designed to promote the growth and development of hospitality and tourism. Marketing Research will be conducted as a component of the course.

Prerequisites: Senior status.

Credit, three hours.

**HTM-449. HTM MANAGERIAL ACCOUNTING AND FINANCE****3:3:0**

This course prepares students to make effective managerial business and operational decisions by allowing them to gain a thorough understanding of financial statement analysis and the numbers that affect daily hospitality property functions. Students emerge with the know-how that will enable them to set realistic financial goals, protect a property's assets, and control costs. This course includes computer forecasting, the statement of cash flows, budgeting using the latest uniform system of accounts for hotels and restaurants, and a managerial accounting practice set.

Prerequisites: ACCT-202, ACCT-203, HTM-210, HTM-305.

Credit, three hours.

**HTM-450. INDEPENDENT STUDY****3:3:0**

The course provides an opportunity for students to participate in special research projects or to study contemporary issues in Hospitality and Tourism Management.

Prerequisites: Consent of the Department Chair.

Credit, three hours.

**HTM-462. SELECTED TOPICS****3:3:0**

The course is an in-depth study of a topic of current interest in the Hospitality and Tourism Management areas. Students develop a research project, based on interest, and conduct and report on the topic through a research paper or project.

Prerequisites: Senior status.

Credit, three hours.

**HTM-490. EVENT PLANNING AND TOURISM MANAGEMENT****3:3:0**

The course is designed to provide students with aspects of event planning. Special emphasis will be placed on marketing, planning, costing, executing, and evaluating of events. Students will learn basic components of meeting/event setups, travel and lodging, and transportation information. Based on client and guest needs, a plan of development will be designed.

Prerequisites: Senior status.

Credit, three hours.



**B.S. DEGREE IN MANAGEMENT - HUMAN RESOURCE MANAGEMENT (53)**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-191	University Seminar I	1	MGMT-192	University Seminar II	1
MTSC-121	College Algebra	3	MTSC-225	Calculus for Business	3
MVSC-100	Lifetime Fitness & Wellness	2	MIS-105	Microcomputer Applications	3
ENGL-101	English Comp I	3	ENGL-102	English Comp II	3
xx-xxx	Natural Science Elective	3	xx-xxx	Foreign Language I	3
HIST-203 or HIST-204	History Elective	3	PSYC-201	Intro to General Psychology	3
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
xx-xxx	Foreign Language II	3	GLST-101	Critical Thinking or Foreign Language III	3
ACCT-201	Accounting I	3	ACCT-203	Accounting for Decision Makers	3
MTSC-125	Finite Math	3	MGMT-205	Management Processes	4
ECON-201	Macroeconomics	3	ECON-202	Microeconomics	3
MGMT-255	Professional Development I	1	MGMT-256	Professional Development II	1
ENGL-201 or ENGL-205	World Literature I or African American Literature I	3	MGMT-208	Intro to Statistics	3
	Total Credits	16		Total Credits	17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	GLST-395	Global Societies	3
HRM-320	Personnel/HR Management	3	ACCT-302	Legal Environment	3
FIN-300	Managerial Finance	3	MKT-300	Principles of Marketing	3
MGMT-305	Management Info Systems	3	MGMT-306	Operations Management	3
MGMT-201	Managerial Communications*	3	HRM-330	Management & Employee Relations	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		

Course	Course Name	Cr	Course	Course Name	Cr
MGMT-325	Organizational Behavior	3	41-445	Strategic Management**	3
MGMT-440	International Management	3	53-452	Staffing and Performance Management	3
53-430	Compensation & Benefits Management	3	xx-xxx	HRM Elective	3
HRM-xxx	HRM Elective	3	xx-xxx	COB/Free Elective	3
HRM-440	HR Planning and Info Systems	3			
	Total Credits	15		Total Credits	12

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

**Grade of „C“ or better required for all courses**

Total Credits: 121
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

## **HUMAN RESOURCES (HRM) (53)**

### **HRM-320. PERSONNEL/HUMAN RESOURCES MANAGEMENT**

**3:3:0**

A comprehensive study of the functions and responsibilities of the Human Resource Manager is offered in the course. Topics include: employee selection, job-design, performance appraisal, training and development, career planning and management, managing a diverse workforce, safety, health, and the role of the labor relations manager. Responsibilities and relationships with other managers and employees are covered. Discussion of the HR function in other countries is also included.

Prerequisites: MGMT-205, Junior status.

Credit, three hours.

### **HRM-330. MANAGEMENT AND EMPLOYEE RELATIONS**

**3:3:0**

The course is a survey of the collective bargaining system in the U.S. The development of managerial approaches is provided to achieve labor-management cooperation, negotiations between management and employees' organizations, the nature and significance of collective bargaining, procedures of collective bargaining, bargaining issues, contract administration, current practices, and the future directions of unions.

Prerequisites: MGMT-320 or HRM-320.

Credit, three hours.

### **HRM-352. LEGAL ISSUES IN HR MANAGEMENT**

**3:3:0**

The course provides a critical review of current and proposed legislation and institutions pertaining to the management of an organization's human resources. Contemporary employment practices and the law are explained in detail. Title VII of the 1964 Civil Rights Act, the Equal Pay Act, the Age Discrimination in Employment Act, the Civil Rights Act of 1967, and federal affirmative action programs are among the many issues discussed.

Prerequisites: ACCT-302.

Credit, three hours.

### **HRM-430. COMPENSATION AND BENEFITS MANAGEMENT**

**3:3:0**

The course is an in-depth study of the development and administration of monetary and non-monetary reward programs, job pricing, benefit packages, job analysis and evaluation systems, and individual and group incentive plans.

Prerequisites: FIN-300, MGMT-320 or HRM-320.

Credit, three hours.

### **HRM-440. HUMAN RESOURCE PLANNING AND INFORMATION SYSTEMS**

**3:3:0**

The course is a survey of concepts and techniques of human resource planning with special emphasis on forecasting human resource requirements and the development of succession plans. An examination is done of the practical and conceptual issues in the development, acquisition, and application of Human Resource Information Systems and other data management techniques.

Prerequisites: HRM-430, MGMT-320 or HRM-320.

Credit, three hours.

### **HRM-450. INDEPENDENT STUDY**

**3:3:0**

The course provides an opportunity for students to participate in special research projects or to study contemporary issues in Human Resources Management.

Prerequisites: Consent of the Department Chair.

Credit, one to three hours.

### **HRM-452. STAFFING AND PERFORMANCE MANAGEMENT**

**3:3:0**

(Cross-listed as MGMT-452.) The course provides an examination of recruiting, selection and performance appraisal, and for an understanding of all facets of performance management including training and development, developing reward systems, performance measurement, equal employment practices, counseling, and promotion processes. Discussions will also include strategies to recruit, retain, and develop a diverse workforce.

Prerequisites: MGMT-208, MGMT-320 or HRM-320.

Credit, three hours.

**HRM-460. SELECTED TOPICS****3:3:0**

The course is an in-depth study of a topic of current interest in the Human Resource Management field.

Prerequisites: Senior status.

Credit, three hours.

**HRM-490. INTERNSHIP****3-6:3:0**

The course provides an opportunity for students to gain practical Human Resources Management experience through on-the-job assignments with approved organizations.

Prerequisites: Consent of the Department Chair.

Credit, three to six hours.

**B.S. DEGREE IN MANAGEMENT - MANAGEMENT INFORMATION SYSTEMS (52)**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-191	University Seminar I	1	MGMT-192	University Seminar II	1
MTSC-121	College Algebra	3	MTSC-225	Calculus for Business	3
MVSC-100	Lifetime Fitness & Wellness	2	MIS-105	Microcomputer Applications	3
ENGL-101	English Comp I	3	ENGL-102	English Comp II	3
xx-xxx	Natural Science Elective	3	xx-xxx	Foreign Language I	3
HIST-203 or HIST-204	History Elective	3	PSYC-201	Intro to General Psychology	3
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
xx-xxx	Foreign Language II	3	GLST-101	Critical Thinking or Foreign Language III	3
ACCT-201	Accounting I	3	ACCT-203	Accounting for Decision Makers	3
MTSC-125	Finite Math	3	MGMT-205	Management Processes	4
ECON-201	Macroeconomics	3	ECON-202	Microeconomics	3
MGMT-255	Professional Development I	1	MGMT-256	Professional Development II	1
ENGL-201 or ENGL-205	World Literature I or African American Literature I	3	MGMT-208	Intro to Statistics	3
	Total Credits	16		Total Credits	17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	GLST-395	Global Societies	3
ACCT-302	Legal Environment	3	HRM-320	Personnel/HR Management	3
FIN-300	Managerial Finance	3	MKT-300	Principles of Marketing	3
MGMT-305	Management Info Systems	3	MGMT-306	Operations Management	3
MGMT-201	Managerial Communications*	3	MIS-314	Intro to Programming	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr

MGMT-325	Organizational Behavior	3	MGMT-445	Strategic Management**	3
MGMT-440	International Management	3	MIS-470	Database Management Systems	3
MIS-360	Advanced Programming	3	MIS-xxx	Information Systems Elective	3
MIS-475	Networking & Telecommunications	3	MIS-480	System Analysis & Design	3
xx-xxx	COB Elective	3			
	Total Credits	15		Total Credits	12

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

**Grade of „C“ or better required for all courses**

Total Credits: 121
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

## **MANAGEMENT INFORMATION SYSTEMS (MIS) (52)**

### **MIS-105. MICROCOMPUTER APPLICATIONS**

**3:3:0**

The purpose of this course is to provide an introduction to computers and information processing for students desiring to learn what a computer is, how it functions, how it is applied to the solution of business and related problems in a modern society, and the future trends in computer applications. A hands-on approach will be employed with commercially available microcomputer software packages for word processing, electronic spreadsheets, database management, graphical presentations, and web design methods using HTML. Computer career opportunities will also be discussed.

Credit, three hours.

### **MIS-313. WEB DESIGN AND IMPLEMENTATION (INTERNET BASED DEVELOPMENT)**

**3:3:0**

The course provides in-depth understandings of Web services, including how to write HTML, set up and configure a variety of popular Web servers, and capture information to external databases. Students will set up their own Web servers, develop text and graphic intensive Web pages, use hyperlinks, and examine the potential of Java, JavaScript, PHP, ASP, and Shockwave.

Prerequisites: MIS-314.

Credit, three hours.

### **MIS-314. INTRODUCTION TO PROGRAMMING**

**3:3:0**

The course introduces students to Visual Basic programming in the Windows environment. Concepts of structured and oriented programming are introduced.

Prerequisites: MGMT-305, MIS-105.

Credit, three hours.

### **MIS-360. ADVANCED PROGRAMMING**

**3:3:0**

The course introduces advanced Windows and Web programming concepts and object-oriented technologies such as multithreading, session state maintenance, and multi-tier application design. Every successful student will master advanced programming concepts and will be able to develop multi-tier Windows and Web applications using the ASP.NET framework and Visual Basic.NET language.

Prerequisites: MGMT-305, MIS-314.

Credit, three hours.

### **MIS-450. INDEPENDENT STUDY**

**1-3:3:0**

The course provides an opportunity for students to pursue topics of in-depth study that is tailored to their personal interests. The course is open only to students with advanced status with the consent of the faculty and under the supervision of a designated faculty member.

Prerequisites: Consent of the Department Chair.

Credit, one to three hours.

### **MIS-460. SELECTED TOPICS**

**3:3:0**

The course offers an in-depth study of a topic of current interest in the Information Systems area.

Prerequisites: Senior status.

Credit, three hours.

### **MIS-470. DATABASE MANAGEMENT SYSTEMS**

**3:3:0**

The course offers an extended study of modern database technology, which is designed to expose students to the development of database management systems.

Prerequisites: MGMT-305.

Credit, three hours.

**MIS-475. NETWORKING AND TELECOMMUNICATIONS****3:3:0**

The course examines long-distance services and technologies and data transfers over the public network using computers and Internet technology. In addition, LAN technology is examined in a systematic and thorough way in order to give the student a firm grounding in LAN technology. Every successful student will understand how computers are connected together that include various connection topologies, how computers communicate in a networked environment, protocols, and network security. Students will have hands-on training in putting together local area networks.

Prerequisites: MGMT-305.

Credit, three hours.

**MIS-480. SYSTEMS ANALYSIS AND DESIGN****3:3:0**

The course offers an examination of the concepts, tools, and techniques used to develop and support computer-based information systems.

Prerequisites: MGMT-305, MIS-314.

Credit, three hours.

**MIS-490. INTERNSHIP****3-6:3:0**

The course provides an opportunity for students to gain practical experience in the area of Information Systems through on-the-job assignments with approved organizations.

Prerequisites: MGMT-305, and consent of the Department Chair.

Credit, three to six hours.

**MIS-495. COOPERATIVE EDUCATION****3-9:3-9:0**

Project planning and selection of appropriate process model; project scheduling and milestone. Project organization, management, principles, concepts, and issues. Work breakdown structures and scheduling. Project staffing consideration. Project control. Managing multiple projects. Systems documentation and metrics. User documentation. Configuration management. System development quality assurance.

Credit, three to nine hours.

**MIS-496. SYSTEMS DEVELOPMENT PROJECT****3:3:0**

Participating in the course's team systems development projects challenges the students' analysis and design skills. Topics covered include case and project management, feasibility analysis, and interpersonal skills.

Prerequisites: MGMT-305, MIS-480.

Credit, three hours.

**MIS-498 STRATEGIC INFORMATION SYSTEMS****3:3:0**

The course defines information technology management strategies, explores the possible information technology strategies of an organization, and provides conceptual frameworks for the development and evaluation of information technology management strategies. The course also examines concepts of strategic information technology systems, approaches for analyzing strategic applications, and systems planning as it relates to information technology management strategy and the interface with organizational strategies.

Prerequisites: MGMT-305, MIS-105.

Credit, three hours.



**B.S. DEGREE IN MANAGEMENT - MARKETING (46)**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MGMT-191	University Seminar I	1	MGMT-192	University Seminar II	1
MTSC-121	College Algebra	3	MTSC-225	Calculus for Business	3
MVSC-100	Lifetime Fitness & Wellness	2	MIS-105	Microcomputer Applications	3
ENGL-101	English Comp I	3	ENGL-102	English Comp II	3
xx-xxx	Natural Science Elective	3	xx-xxx	Foreign Language I	3
HIST-203 or HIST-204	History Elective	3	PSYC-201	Intro to General Psychology	3
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
xx-xxx	Foreign Language II	3	GLST-101	Critical Thinking or Foreign Language III	3
ACCT-201	Accounting I	3	ACCT-203	Accounting for Decision Makers	3
MTSC-125	Finite Math	3	MGMT-205	Management Processes	4
ECON-201	Macroeconomics	3	ECON-201	Microeconomics	3
MGMT-255	Professional Development I	1	MGMT-256	Professional Development II	1
ENGL-201 or ENGL-205	World Literature I or African American Literature I	3	MGMT-208	Intro to Statistics	3
	Total Credits	16		Total Credits	17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-200	Speech	3	GLST-395	Global Societies	3
MKT-300	Principles of Marketing	3	HRM-320	Personnel/HR Management	3
FIN-300	Managerial Finance	3	ACCT-302	Legal Environment	3
MGMT-305	Management Info Systems	3	MGMT-306	Operations Management	3
MGMT-201	Managerial Communications*	3	MKT-315	Buyer Behavior	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr

MGMT-325	Organizational Behavior	3	MGMT-445	Strategic Management**	3
MGMT-440	International Management	3	MKT-420	International Marketing	3
MKT-412	Supply Chain Management	3	MKT-426	Marketing Management	3
MKT-407	Promotional Strategy	3	MKT-xxx	Marketing Elective	3
MKT-415	Marketing Research	3			
	Total Credits	15		Total Credits	12

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

**Grade of „C” or better required for all courses**

Total Credits: 121
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

## **MARKETING (MKT) (46)**

### **MKT-191. UNIVERSITY SEMINAR I – MARKETING**

**1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **MKT-192. UNIVERSITY SEMINAR II – MARKETING**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **MKT-300. PRINCIPLES OF MARKETING**

**3:3:0**

The course addresses concepts and issues underlying the modern practice of marketing including the following: the environmental forces affecting the marketing decision maker, organization and planning of the marketing function, market segmentation, marketing mix, and other relevant topics.

Prerequisites: Junior status.

Credit, three hours.

### **MKT-303. SELLING AND SALES MANAGEMENT**

**3:3:0**

The course provides an introduction to selling management and the personal selling components of marketing management. The role of the sales manager in recruiting, directing, motivating, and rewarding a sales force are discussed and analyzed. The course has an emphasis on the selling process, the buyer-seller dyad, market analysis, formulation of sales strategies, the sales presentation, and account and territory management.

Prerequisites: MGMT-205, MKT-300.

Credit, three hours.

### **MKT-315. BUYER BEHAVIOR**

**3:3:0**

The course identifies major factors that influence how both consumers and institutional buyers process and learn marketing information. Emphasis is on the role culture and personal and interpersonal influences have on buyer behavior. Examination of marketing strategies to best reach the needs of diverse market segments is part of the course offering.

Prerequisites: MGMT-205, MKT-300.

Credit, three hours.

### **MKT-320. RETAIL MERCHANDISING**

**3:3:0**

The course examines principles and practices of organizing, operating, and managing retail establishments with emphasis on planning, control, pricing, distribution, and promotion of merchandise, retail inventory methods, and other relevant topics.

Prerequisites: MGMT-205, MKT-300.

Credit, three hours.

**MKT-376. SMALL ENTERPRISE MARKETING****3:3:0**

The course focuses on the specific marketing needs of small enterprises. The course includes the development of strategic marketing plans within limited budgets, segmentation strategies, and developing promotional activities for targeted markets.

Prerequisites: MGMT-205.

Credit, three hours.

**MKT-407. PROMOTIONAL STRATEGY****3:3:0**

The course is project-oriented and focuses on integrated marketing communications. Topics include advertising organization and design, measurement of advertising effectiveness, sales promotion, the personal selling, and public relations.

Prerequisites: MGMT-205, MKT-300.

Credit, three hours.

**MKT-410. ORGANIZATION-TO-ORGANIZATION MARKETING****3:3:0**

The course assesses marketing opportunities among organizations. Strategies will be developed based on analysis of the organizational environment both internal and external. Marketing mix strategies will address the needs of large multi-national corporations and organizations (public and private) as well as the relationship among smaller organizations.

Prerequisites: MGMT-205, MKT-300, Senior status.

Credit, three hours.

**MKT-412. SUPPLY CHAIN MANAGEMENT****3:3:0**

The course considers the components of modern-day physical distribution and logistics systems with emphasis on facility location, transportation, warehousing, inventory control, and communications. While emphasis is placed on physical distribution flows, additional topics covered include the flow of information, and the flow of money in a supply chain.

Prerequisites: MGMT-205, MKT-300, MGMT-306.

Credit, three hours.

**MKT-415. MARKETING RESEARCH****3:3:0**

The course is the study of applied research methods in the analysis of marketing problems and the utilization of research findings in the formulation of marketing policies. Emphasis is on research design, sampling, data collection, psychological scaling, techniques of statistical analysis, preparation and presentation of the research report, and other relevant topics.

Prerequisites: MGMT-208, MKT-315.

Credit, three hours.

**MKT-420. INTERNATIONAL MARKETING****3:3:0**

The course addresses the social, cultural, political, and economic environmental differences of countries in relation to marketing practices. Consideration is also given to the role of multinational corporations.

Prerequisites: MGMT-205, MKT-300.

Credit, three hours.

**MKT-426. MARKETING MANAGEMENT****3:3:0**

The course provides opportunities for advanced study of marketing functions from the point of view of the marketing manager. The course emphasizes formulation and implementation of marketing policies, including marketing planning, buyer behavior, in addition to product, channel, promotion, and pricing strategies.

Prerequisites: MKT-300, Senior status, during the final semester of coursework.

Credit, three hours.

**MKT-450. INDEPENDENT STUDY****1-3:3:0**

Faculty-supervised study offering students the opportunity to undertake independent research projects to study contemporary issues in marketing.

Prerequisites: Consent of the Department Chair.

Credit, one to three hours.

**MKT-462. SELECTED TOPICS****3:3:0**

The course is an in-depth study of a topic of current interest in the Management or Accounting major.

Prerequisites: Junior status.

Credit, three hours.

**MKT-478. E-MARKETING****3:3:0**

The course focuses on the development of marketing programs and strategy that integrates the Internet and World Wide Web. Specific topics include the application of the Internet to the development of product, pricing, promotion and distribution strategies, customer relationship management, segmentation, differentiation, and positioning strategies. Additional topics covered include cyber law as it applies to marketing, issues of privacy, and ethics.

Prerequisites: MGMT-205, MKT-300.

Credit, three hours.

**MKT-490. INTERNSHIP****1-3:3:0**

The course allows students to gain practical experiences in marketing through on-the-job work assignments with various businesses and institutions.

Prerequisites: Consent of the Department Chair.

Credit: three to six hours.

## **AVIATION PROGRAM**

The Aviation Program within the College of Business provides education and experience in preparation for careers in the aviation field. Students may qualify for positions as airplane pilots, air traffic controllers and in various management areas in airline, industrial and governmental agencies. Curricula in the program lead to a Bachelor of Science in Aviation with concentrations in Aviation Management or Professional Pilot. Admission and continuation in the Professional Pilot option is decided at the program level. Students in the Professional Pilot option are expected to complete the private, instrument, and commercial ratings within the first three years.

Charges incurred for Certification testing with Federal Aviation Administration (FAA) Designated Examiners are the responsibility of the pilot seeking certification. Flight lab fees are subject to change.

**B.S. DEGREE IN AVIATION – PROFESSIONAL PILOT**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
AVIA-191	University Seminar I**	1	AVIA-192	University Seminar II**	1
MTSC-121	College Algebra*	3	MTSC-122	Trigonometry**	3
MVSC-100	Lifetime Fitness & Wellness**	2	MIS-105	Microcomputer Applications	3
ENGL-101	English Composition I**	3	ENGL-102	English Composition II**	3
AVIA-321	Meteorology	3	AVIA-103	Instrument Rating	3
AVIA-102	Private Pilot Certification	3	AVIA-103L	Instrument Rating Lab	1
AVIA-102L	Private Pilot Lab	1			
	Total Credits	16		Total Credits	14
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-xxx	Literature I (201,202,205,206)	3	ENGL-xxx	Literature II (201,202,205,206)	3
PHYS-111	Intro to Physics I	3	PHYS-112	Intro to Physics II	3
PHYS-111	Intro to Physics I Lab	1	PHYS-112	Intro to Physics II Lab	1
MTSC-251	Calculus I**	4	MGMT-205	Management Processes	4
AVIA-201	Basic Aircraft Systems	3	AVIA-310	Flight Safety*	3
AVIA-201L	Commercial Pilot Lab I	1	AVIA-202	Commercial Pilot Certification	3
			AVIA-202L	Commercial Pilot Lab II	.67
	Total Credits	14-15		Total Credits	17.67
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PSYC-201	Intro to General Psychology	3	ENGL-327	Interpersonal Communications	3
xx-xxx	Foreign Language I	3	xx-xxx	Foreign Language II	3
AVIA-307	Advanced Aircraft Systems	3	AVIA-350	Air Traffic Control	3
AVIA-307L	Commercial Pilot Lab III	1	AVIA-301	Multi-Engine Rating	1
AVIA-305	Adv Aero & Aircraft Perf	3	AVIA-361L	Multi-Engine Rating Lab	.33

ENGL-200	Speech	3	AVIA-305	Management Information Sys	3
			31-395	Global Societies*	3
	Total Credits	16		Total Credits	16.33
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
HIST-xxx	History Elective	3	AVIA-450	International Air Transport***	3
AVIA-317	Human Factors in Aviation	3	xx-xxx	Free Elective	3
AVIA-333	Crew Resource Management	3	AVIA-489	Aviation Legislation	3
MGMT-325	Organizational Behavior	3	AVIA-402	CFI-Instrument	3
AVIA-401	CFI-Airplane	3	AVIA-431L	CFI-Instrument Lab	.33
AVIA-401L	CFI-Lab	.67			
	Total Credits	15.67		Total Credits	12.33

\* Writing Intensive Course(s)

\*\* Grade of "C" or better required.

\*\*\* Senior Capstone

Total Credits: 122-123
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**



**B.S. DEGREE IN AVIATION – AVIATION MANAGEMENT**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
AVIA-191	University Seminar I**	1	AVIA-192	University Seminar II**	1
MTSC-121	College Algebra*	3	MTSC-125	Finite Math**	3
MVSC-100	Lifetime Fitness & Wellness**	2	MIS-105	Microcomputer Applications	3
ENGL-101	English Composition I**	3	ENGL-102	English Composition II**	3
HIST-xxx	History Elective	3	PSYC-201	Intro to General Psychology	3
AVIA-102	Private Pilot Certification or	3	xx-xxx	Foreign Language I	3
AVIA-102L	Private Pilot Lab (optional)	1			
	Total Credits	15-16		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-xxx	Literature I (201,202,205,206)	3	ENGL-xxx	Literature II (201,202,205,206)	3
xx-xxx	Foreign Language II	3	MGMT-205	Management Processes	4
PHYS-111	Intro to Physics I	3	PHYS-112	Intro to Physics II	3
PHYS-111	Intro to Physics I Lab	1	PHYS-112	Intro to Physics II Lab	1
MTSC-225	Calculus for Business & Social Sci.**	3	AVIA-310	Flight Safety*	3
ENGL-200	Speech*	3	MGMT-208	Intro to Statistics or	
			MTSC-341	Probability	3
	Total Credits	16		Total Credits	17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
AVIA-370	Airport Planning & Management	3	HRM-320	Human Resources Management	3
ACCT-201	Accounting I	3	ACCT-203	Accounting for Decision Making	3
GLSCT-395	Global Societies**	3	MGMT-305	Management Info Systems	3
xx-xxx	Free Elective	3	AVIA-350	Air Traffic Control	3

ECON-201	Macroeconomics	3			
	Total Credits	15		Total Credits	12
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
HRM-330	Management/Employee Relations	3	AVIA-450	International Air Transport***	3
AVIA-333	Crew Resource Management	3	AVIA-300	Principles of Marketing	3
ENGL-327	Interpersonal Communications	3	AVIA-489	Aviation Legislation	3
MGMT-325	Organizational Behavior	3	AVIA-312	Operations Management	3
MGMT-440	International Management	3	AVIA-440	Airline Management	3
	Total Credits	15		Total Credits	15

Total Credits: 121-122
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\* **Writing Intensive Course(s)**

\*\* **Grade of "C" or better required.**

\*\*\* **Senior Capstone Course, which also satisfies the General Education Requirements.**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

## **AVIATION (AVIA) (49)**

### **AVIA-102. PRIVATE PILOT CERTIFICATION**

**3:3:0**

Academic studies in preparation for the experience of flying and preparation for the Federal Aviation Administration (FAA) written and oral examinations for the Private Pilot Certification. Materials covered include basic aerodynamics, elementary aircraft systems, aviation navigation, safety, weather, aviation physiology, and FAA Regulations. Three (3) hours lecture.

Credit, three hours.

### **AVIA-102L. PRIVATE PILOT LAB**

**1:0:3**

Provides the students with the flight time and instruction to complete all maneuvers and operations required to earn the Federal Aviation Administration (FAA) Private Pilot Certificate. Course includes all dual and solo flights, and evaluation flights and oral and flight examinations administered by the FAA or appointed examiners. Course consists of forty-five (45) hours of flight training. Three (3) flight hours and one and one-half hours pre- and post-flight briefing per week.

Corequisites: AVIA-102, or consent of the Department Director.

Credit, one hour.

### **AVIA-103. INSTRUMENT RATING**

**3:3:0**

Academic studies in preparation for the Federal Aviation Administration (FAA) written and oral examinations for the Instrument Rating. Information covered includes aircraft instrument systems, ground-based instrument systems, normal and emergency practices and procedures related to flying under Instrument Meteorological conditions, and FAA Regulations related to flying under Instrument Flight Rules (IFR). Three (3) hours lecture per week.

Credit, three hours.

### **AVIA-103L. INSTRUMENT RATING LAB**

**1:0:3**

Provides the student with the flight time and instruction to complete all maneuvers and operations required to earn the FAA Instrument Rating. Course includes all evaluation flights and certification and oral examinations administered by the FAA or its appointed examiners. Course consists of forty-five (45) hours of flight training. Three (3) flight hours, and one and one-half hours pre- and post-flight briefing per week.

Corequisites: AVIA-103, or consent of the Department Director.

Credit, one hour.

### **AVIA-191. UNIVERSITY SEMINAR I – AVIATION**

**1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **AVIA-192. UNIVERSITY SEMINAR II – AVIATION**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

**AVIA-201. BASIC AIRCRAFT SYSTEMS****3:3:0**

Provides the student with an understanding of the systems of a reciprocating engine airplane. Materials covered include aircraft systems, safety, and aircraft avionics.

Credit, three hours.

**AVIA-201L. COMMERCIAL PILOT LAB I****1:0:3**

Provides the student with the flight time and instruction to learn and practice commercial pilot maneuvers and advanced cross-country flying in preparation for the FAA Commercial Pilot Certificate. Course includes an evaluation. All flights are performed in single engine airplanes with fixed landing gear. Course consists of fifty (50) hours of flight training. Three (3) flight hours, and one and one-half hours of pre- and post-flight briefing per week.

Corequisites: AVIA-201, or consent of the Department Director.

Credit, one hour.

**AVIA-202. COMMERCIAL PILOT CERTIFICATION****3:2:0**

Academic studies in preparation for the Federal Aviation Administration (FAA) written and oral examinations for the Commercial Pilot Certificate. Materials covered include intermediate aerodynamics, intermediate aircraft systems, intermediate aviation navigation under Visual Flight Rules (VFR), safety, weather, aviation physiology, and FAA Regulations related to the commercial pilot.

Credit, three hours.

**AVIA-202L. COMMERCIAL PILOT LAB II****.67:0:2**

Provides the student with the flight time and instruction to continue to learn and practice the commercial pilot maneuvers and advanced cross country flying in preparation for the FAA Commercial Pilot Certificate. Course includes an evaluation. Course consists of twenty-nine (29) hours of flight training.

Prerequisites: AVIA-201L, or consent of the Program Director or Department Chair.

Credit, .67 hours.

**AVIA-301. MULTIENGINE RATING****1:1:0**

Academic studies in preparation for the Federal Aviation Administration (FAA) oral examination for the Multiengine Airplane Class Rating. Information covered includes multiengine aerodynamics and systems, safety, and FAA Regulations relevant to multiengine flight. One (1) hour lecture per week. (See 49-361L.)

Credit, one hour.

**AVIA-305. ADVANCED AERODYNAMICS AND AIRCRAFT PERFORMANCE****3:3:0**

Academic studies covering advanced aerodynamic theories and their application. Includes airfoil shape, drag, velocity, lift, thrust, stability, and control. Also included are advanced principles of performance including airplane capabilities and limitations, performance design criteria, load factors, weight and balance, comparative analysis of aircraft, and aircraft certification. Three (3) hours lecture per week.

Credit, three hours.

**AVIA-307. ADVANCED AIRCRAFT SYSTEMS****3:3:0**

The study of advanced systems currently in use in aircraft flown by the airlines. The course provides the knowledge necessary to successfully complete the FAA Flight Engineer written examination. Three (3) hours lecture per week.

Credit, three hours.

**AVIA-307L. COMMERCIAL PILOT LAB III****1:0:3**

Provides the student with the flight time and instruction to complete all maneuvers required to earn the FAA Commercial Pilot Certificate. Course includes all evaluation flight and certification and oral examinations administered by the FAA or its appointed examiners. Course consists of thirty-six (36) hours of flight training.

Prerequisites: AVIA-202L, or consent of the Program Director or Department Chair.

Credit, one hour.

**AVIA-310. FLIGHT SAFETY****3:3:0**

Presentation and analysis of factors and procedures relating to aviation safety. Discusses techniques for accident prevention, development of safety programs, procedures used in accident investigation, physiological and psychological factors relating to aviation safety, and the role weather plays in safety. Three (3) hours lecture per week.

Credit, three hours.

**AVIA-312. OPERATIONS MANAGEMENT****3:3:0**

Management techniques and administrative functions as they apply to the aviation industry. Includes planning, economic and resource considerations, problems, current issues, and future trends related to aviation operations. Three (3) hours lecture per week.

Credit, three hours.

**AVIA-317. HUMAN FACTORS IN AVIATION****3:3:0**

A study of cockpit resource management as applied in commercial air carriers. Includes pilot-in-command responsibilities, decision making, cockpit communications, interpersonal relationships, cockpit procedures, and physiological and psychological factors and their role in accidents. A study is made of advances in aircraft, equipment, and procedures to minimize human error and its effects.

Credit, three hours.

**AVIA-321. METEOROLOGY****3:3:0**

Basic theories of weather, atmospheric conditions, and climate, as they apply to flight. Explores the physical processes affecting the atmospheric environment and their relationships. Includes the principles of forecasting and an introduction to meteorological instrumentation. Three (3) hours lecture per week.

Credit, three hours.

**AVIA-333. CREW RESOURCE MANAGEMENT****3:3:0**

The course will examine the concepts of Crew Resource Management (CRM) currently practiced in military, commercial and corporate aviation. The role of crew supervision and training, organized labor, leadership styles, and management oversight will be studied. Students will gain an understanding of the aviation operational characteristics that gave rise to the implementation of CRM training. The CRM course has the goal to familiarize students with contemporary training models used in crew education with the intent of enabling course participants to apply learned philosophies and strategies to their individual aviation experience.

Credit, three hours.

**AVIA-350. AIR TRAFFIC CONTROL****3:3:0**

A study of the national air traffic control system with emphasis on basic air traffic control procedures and the roles of Center, Approach Control, Tower, and Flight Service Station. Includes communications navigation procedures, radar operations, and facilities. Three (3) hours lecture per week.

Credit, three hours.

**AVIA-361L. MULTIENGINE RATING LAB****.33:0:1**

Provides the student with the flight time and instruction to complete all maneuvers and operations required in preparation to earn the Federal Aviation Administration (FAA) Multiengine Airplane Class Rating. Course includes an evaluation flight and Certification oral and practical examinations administered by the FAA or its appointed examiners. One (1) hour flight, one-half hour pre- and post-flight briefing per week.

Corequisites: AVIA-301.

Credit, .33 hours.

**AVIA-370. AIRPORT PLANNING AND MANAGEMENT****3:3:0**

A comprehensive study of airport operations and management. Includes the analysis of the role of the airport manager in planning, finance and administration, public relations, social, political and environmental considerations, operational requirements, and facility maintenance. Three (3) hours lecture per week.

Credit, three hours.

**AVIA-401. CFI-AIRPLANE****3:2:0**

Academic studies in preparation for the Federal Aviation Administration (FAA) written and oral examination for the Flight Instructor Airplane Certificate. Information covered includes the fundamentals of instruction in classrooms, in one-to-one situations, and in airplane cockpits. Also included is analysis of student performance and evaluation of aviation students in academics, in practical situations, and in the regulatory responsibilities of the Certificated Flight Instructor (CFI). Three (3) hours lecture per week.

Prerequisites: AVIA-202.

Credit, three hours.

**AVIA-401L. CFI-AIRPLANE LAB****.67:0:2**

Provides the student with the flight time and instruction to demonstrate, teach, and evaluate performance of students in all maneuvers and operations required to earn the Private Pilot and Commercial Pilot Certificates. The student will be prepared to successfully complete the FAA Flight Instructor-Airplanes (CFI-A) oral and practical examinations administered by the FAA or its appointed examiners. Two hours flight, one hour pre- & post-flight briefing per week.

Prerequisites: AVIA-202L, Commercial Pilot Certification or permission of Department Chair.

Credit, .66 hours.

**AVIA-402. CFI-INSTRUMENT****3:2:0**

Academic studies in preparation for the Federal Aviation Administration (FAA) written and oral examinations for the Flight Instructor (CFI) Instruments Certificate. Information covered includes a review of the body of knowledge required of the Instrument rated pilot, and methods of imparting this knowledge to students. The regulatory responsibilities of the Certificated Flight Instructor (CFI) are reviewed and emphasized. Three (3) hours lecture per week.

Prerequisites: AVIA-202, Junior status.

Credit, three hours.

**AVIA-431L. CFI-INSTRUMENT LAB****.33:0:1**

Provides the student with the flight time and instruction to demonstrate, teach, and evaluate performance of students in all maneuvers and operations required to earn the FAA Instrument Rating. The student will be prepared to successfully complete the FAA Certificated Flight Instructor-Instrument (CFI-I) oral and practical examinations administered by the FAA or its appointed examiners.

Corequisites: AVIA-402.

Credit, .33 hours.

**AVIA-440. AIRLINE MANAGEMENT****3:2:0**

A study of critical areas of airline management, such as forecasting, fleet planning scheduling, human resource management, and airline maintenance management. Three (3) hours lecture per week.

Credit, three hours.

**AVIA-450. INTERNATIONAL AIR TRANSPORTATION****3:2:0**

A survey of the historical development of international air transportation system covering facilities, impact of regulations, problems encountered in commercial air transportation, future requirements, airline operations, economics, and social implications. Three (3) hours lecture per week.

Prerequisites: Senior status.

Credit, three hours.

**AVIA-470. CFI-MULTIENGINE****2:1:0**

Academic studies in preparation for the Federal Aviation Administration (FAA) written and oral examinations for the Flight Instructor Multiengine Certificate. Information covered includes a review of the body of knowledge required of the multiengine rated pilot, and methods of imparting this knowledge to students. The regulatory responsibilities of the Certificate Flight Instructor (CFI) are reviewed and emphasized. Three (3) hours lecture per week.

Prerequisites: AVIA-301, AVIA-402, Senior status.

Credit, two hours.

**AVIA-471L. CFI-MULTIENGINE LAB****.33:0:1**

Provides the student with the flight time and instruction to demonstrate, teach, and evaluate performance of students in all maneuvers and operations required to earn the FAA Multiengine Rating. The student will be prepared to successfully complete the FAA Certificated Flight Instructor-Multiengine (CFI-ME) oral and practical examinations administered by the FAA or its appointed examiners. One (1) hour flight, and one-half hour pre- and post-flight briefing per week.

Corequisites: AVIA-470.

Credit, .33 hours.

**AVIA-489. AVIATION LEGISLATION****3:3:0**

The course emphasizes legal concepts concerning aviation as related to operation, contracts, insurance and liability, regulatory, statutes, law, and case law. Three (3) hours lecture per week.

Prerequisites: Junior status.

Credit, three hours.

**AVIA-499. PRACTICUM****1-12:1-12:1-12**

Involves selected practical experience in aviation, appropriate to the degree option being pursued. Experience may be within the Delaware State University environment or elsewhere within the aviation industry.

Prerequisites: Senior status.

Credit, one to twelve hours.

## **DEPARTMENT OF SPORTS MANAGEMENT**

**Professor and Department Chairperson:** Dr. Li Chen

**Associate Professor:** Dr. Jan Blade

**Assistant Professor:** Dr. Mark Still, Dr. Mark Zhang

**Instructor:** Dr. Christopher Malone

**Adjunct instructors:** Mrs. Jordan Williams, Mrs. Sherwanda Rachal, Mr. Derek Chatham

### **DEPARTMENTAL MISSION**

The mission of Sport Management Department at Delaware State University is to prepare effective managerial practitioners in sport related industries, and to foster ethical leaders and professionals with specialized knowledge, skills, and abilities to serve the global community.

### **Broad based Goals for the Sport Management Program**

#### **A. Learning Goals:**

The Sport Management program of Delaware State University requires the students to:

- (a) Obtain knowledge in specific core content areas, such as management in sport, sport marketing, sport economics and finance, leadership and communication in sport, legal aspects of sport, psychological, international, and governmental aspects of sport.
- (b) Develop an understanding of the professional and ethical obligations, including a global awareness and an appreciation of the impact of diversity.
- (c) Apply the skills in leadership, decision making, logic reasoning and critical thinking to practical settings, enable students to comprehend and effectively analyze current issues in sport, make decisions and well-based judgments.
- (d) Demonstrate effective organizational and communication skills including oral, written, and interpersonal skills.
- (e) Demonstrate proficiency in using computer and technology to analyze numerical information, to organize data, to aid in decision-making, to facilitate research, and to communicate effectively.
- (f) Develop a commitment to continuing professional growth through activities such as joining professional organizations, attending conferences and workshops, engaging in in-service training, subscribing to professional journals or participating in volunteer work.

#### **B. Operating Goals:**

The operating goals of Sport Management program at Delaware State University are:

- (a) To commit to the missions of the University, College, and sport management program.
- (b) To encourage student to activity engage in overall experience of education.
- (c) To keep seeking improvement and advancement of teaching and learning.
- (d) To increase student enrollment and retention.
- (e) To encourage student involvement and affiliation with community and sport and recreation related businesses.
- (f) To encourage faculty to grow continuously through participating in professional associations, conferences, workshops, professional publications, and volunteer work.



### **C. Program Level Student Learning Outcomes:**

The DSU sport management program level student learning outcomes include:

1. Demonstrating knowledge of managerial principles in sport related industries including key management functions, sport economics and finance, sport communication and laws, psychological, international and governmental aspects of sport, and applying the knowledge and skills to practice.
2. Understanding cultural differences and global sport management issues.
3. Demonstrating positive professionalism, ethics, conduct and behaviors in public and work environment.
4. Respecting diversity of society and individual differences related to gender, age, race, religion, national origins, physical characters, and sexual orientation.
5. Demonstrating knowledge and skills in critical thinking, problem solving, qualitative and quantitative analyses and technology.
6. Demonstrating effective interpersonal and communication (oral, written, technology) skills.

### **ORGANIZATION AND ADMINISTRATION**

The Department of Sport Management is comprised with the faculty members who hold doctorates and provide quality educational services to our students and community. In addition to Master of Sport Administration, the Department offers a Bachelor of Science degree in Sport Management and minors of Coaching Management and Recreation Management.

The Sport Management Organization (SMO) is the student organization under supervision of the University and Department of Sport Management faculty. The students are encouraged to be a member of the organization. All departmental majors and minors are eligible for membership. The organization elects its own officers, updates its by-laws, and determines its goals and objectives. The organizational activities are both professional and service oriented. The members are encouraged to attend regional or national conventions under supervision of the Sport Management faculty advisors.

### **SPORT MANAGEMENT MAJOR:**

The undergraduate curriculum of sport management is under the guidelines of national accreditation through Commission of Accreditation for Sport Management (COSMA). Students who select the Sport Management major must complete the general education program required by the University (See General Education Requirements). Based on the accreditation guidelines, the following professional courses are required: Sport Management (SPSC) 191, 192, 271, 272, 274, 280, 371, 372, 373, 374, 376, 377, 471, 473, 475, and SPSC-476 (internship). The students may take some electives upon approval of the academic advisor based on the program curriculum.

**Sport Management Major**  
Effective Date: Fall, 2010



Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-101	*English Comp I	3	ENGL-102	*English Comp II	3
__-101	Foreign Language	3	PHIL-201/202	Introduction to Philosophy or Ethics	3
INFO-101/MIS-105	Applied computer/Micro-computer	3	MTSC-121	*College Algebra	3
__-____	Natural Science	3	__-____	Math or Science	3
MVSC-101	*Lifetime Fitness & Wellness	2	HIST-201	<sup>A</sup> History (World or American Africa)	3
SPSC -191	*University Seminar I	1	SPSC -192	*University Seminar II	1
Total Credits		15	Total Credits		16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGL-201/205	<sup>A</sup> Literature (World or African American)	3	ENGL-200	*Speech	3
ACCT-204	*Accounting I	3	ECON-202	Intro to Micro-econ/Mgt Proc MGMT-205	3
ECON-201	Intro to Macroeconomics	3	SPSC -272	*Governance & Int. Aspects of Sport	3
SPSC -271	*Intro to Mgt in Sport & Rec	3	SPSC -274	<sup>B*</sup> Communication in Sport	3
	Approved Elective – 1	3	SPSC-280	*Practicum in Sport Management	2
				Approved Elective – 2	3
Total Credits		15	Total Credits		17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MKT-300	*Principle of Marketing	3	SPSC-372	*Leadership and Ethics in Sport	3
SPSC -371	*Fin/Eco. Aspects of Sport & Rec	3	SPSC -374	*Marketing in Sport	3
SPSC -373	*Org Theory & Behav in Sport	3	SPSC -376	*Socio-Cultural Aspects of Sport	3
SPSC -377	*Areas & Facilities in Sport & Rec	3	__-____	Approved Elective – 3	3
GLOB-395	*Global Societies (60 cr. Finished)	3	__-____	Approved Elective – 4	3
Total Credits		15	Total Credits		15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
CMHE-401/____	First Aid & CPR (or Elective – 5 + Certificate)	3	SPSC -476	<sup>C*</sup> Internship in Sport Management	12
SPSC -471	*Legal Issues in Sport & Rec	3			
SPSC -473	*Analysis and Eva in Sport Mgt	3			
SPSC -475	*Current Trends in Sport	3			
__-____	Approved Elective – 6	3			
Total Credits		15	Total Credits		12

The curriculum is formulated with national accreditation standards. \*required C/better for graduation. Students must have 2.0 GPA to enter Pre-sport management and 2.5 GPA to enter formal SM program. <sup>A</sup>one of these must be in African-American; <sup>B</sup>Writing Intensive; and <sup>C</sup>Senior Capstone.

Total Credits: 120

### **COACHING & RECREATION MANAGEMENT MINORS:**

The Department of Sport Management offers two minors; Coaching Management and Recreation Management for undergraduate studies at DSU. The minors could be either used for the students who have enrolled in the current Department or other departments. The minors could strengthen knowledge and skills in athletic coaching and empower students' capability in workforce. The programs are formulated with national standards of coaching program by National Council for Accreditation of Coaching Education (NCACE). The Coaching Management minor contains 21 credit hours and the Recreation Management minor contains 20 credit hours of courses which are mainly offered by the current Department in the College of Business, plus a CPR/First Aid requirement.

To enter the Coaching Management minor, students must have sophomore status and have a cumulative 2.0 GPA. The students must complete all required courses with the letter grade C or above and a 2.0 GPA to graduate with the Coaching Minor.

#### **COACHING MANAGEMENT MINOR**

##### **Total Credit Hours (21)**

##### **Fall**

	<b>Code</b>	<b>Courses</b>	<b>Credit</b>
1	SPSC-312	Psychology of Coaching	3
2	SPSC-271	Introduction to Management in Sport and Recreation	3
3	SPSC-403	Organization & Administration of Sport and Athletic Program	3
4	SPSC-471	Legal Issues in Sport and Recreation	3
		Total	12

##### **Spring**

	<b>Code</b>	<b>Courses</b>	<b>Credit</b>
1	SPSC-372	Leadership and Ethics in Sport	3
2	SPSC-414	Principle of Coaching	3
3	SPSC-415	Coaching Practicum	3
4		Required CPR/First Aid or Equivalent	
		Total	9

The Department of Sport Management offers Recreation Management Minor with the standards of accreditation guidelines by National Recreation and Park Association (NRPA). The program offers specified knowledge and training for students who may work in the recreation industry such as intramural sports, YMCA/YWCA, recreation department of city and county and private clubs (tennis, golf). The minor contains 20 credit hours plus a CPR/First Aid requirement.

- a. Admission Requirement: 2.0 GPA or above;
- b. Graduation Requirements: Letter grade C or better on each required course and cumulative 2.0 GPA or higher;
- c. Activity Course: Students must complete two or more selected activity courses (1 credit for each) listed below; and
- d. Waive: Students in Sport Management may be waived Recreation Practicum if their major internships are in a recreational sport setting verified by the minor advisor.
- e.

**RECREATION MANAGEMENT MINOR****Total Credit Hours (20)****Fall**

	<b>Code</b>	<b>Courses</b>	<b>Credit</b>
1	SPSC-371	Financial and Economical Aspects of Sport & Recreation	3
2	SPSC-377	Areas & Facility in Sport & Recreation	3
3	SPSC-471	Legal Issues in Sport & Recreation	3
4	SPSC-110 or 120	Foundation of Aquatics or Foundation of Racquet Activities	1
		Total	10

**Spring**

	<b>Code</b>	<b>Courses</b>	<b>Credit</b>
1	SPSC-271	Introduction to Management in Sport & Recreation	3
2	SPSC-204	Methods & Materials in Recreation	3
3	SPSC-490	Recreation Practicum	3
4	SPSC-106 or 105	Foundation of Golf or Recreational Aerobics	1
		Total	10

**COURSE DESCRIPTION****SPSC-105 RECREATIONAL AEROBICS: 1:1:0**

Aerobics becomes very popular in most of recreational facilities such as YMCA and recreation centers of higher education across the country. For recreational purpose this course is designed for students who want to improve personal fitness and lifelong health and to participate in physical activity that combines with rhythmic aerobic exercise and stretching with the goals of improving all elements of physical well being.

**SPSC-106 FOUNDATION OF GOLF: 1:1:0**

This is an outdoor recreational course and designed for the students to learn fundamental knowledge and techniques of golf. The course will provide learning experience and basic training in golf that will benefit learners in healthy lifestyle and social opportunity through playing golf (\$80 fee applies). The course will be held either on campus or off campus (golf court) faculties based on availability.

**SPSC-110 FOUNDATION OF AQUATICS: 1:1:0**

This is an introduction course of swimming designed for beginners of swimming by using the recreation pool of DSU Recreation Center. The course will focus on fundamental knowledge and skills of aquatics that will benefit students for lifelong recreational.

**SPSC-120 FOUNDATION OF RACQUETBALL ACTIVITIES: 1:1:0**

This is an introduction course for racquet balls that could be used as recreational activities. The course may include one or more in tennis, table tennis, badminton, and other racquet skills and knowledge that will benefit students in physical well being and recreational enjoyment. The course will be held either outdoor or indoor faculties of DSU based on availability.

**SPSC-191 & 192. UNIVERSITY SEMINAR I & II: 1:2:0**

University Seminar is a two semester and general education course sequence that develops academic skills including critical reading, thinking, writing and speaking as well as using the library, the Internet, and word processing. The goals of the general education program are embedded in the class activities, providing each student the opportunity to cultivate the skills and knowledge necessary to become a life-long learner. A global and multi-cultural perspective will be used to discuss moral and ethical issues facing students in college life and career experiences. Opportunities will be provided for self-examination through assessment of career possibilities and basic learning, including time management, note taking and problem solving. Important goals of this course are to know the history of the University, to feel connected to the University and to have a common educational experience with other freshman. Credit: one hour each semester

**SPSC-200. TESTS AND MEASUREMENTS IN SPORT SCIENCES: 3:3:0**

Tests and measurements in health and human performance is a course designed to prepare health and human performance professionals with a knowledge base involving evaluation tools, measurement techniques, and assessment modalities. A thorough understanding of measurement and evaluation is essential for prospective practitioners to effectively execute their duties and responsibilities in their respective work sites. The use of computing systems, various forms of technology, and the most recently developed tools are important in the preparation of effective teachers and practitioners. Organization, categorization, analysis and assessment tools and techniques play important roles in classroom management. Therefore, this course is part of the specialty area content of the health education and the physical education teacher education major program, as well as, the non-teacher education programs in Health and Human Performance. Credit: three hours.

**SPSC 204 METHODS AND MATERIALS IN RECREATION: 3:3:0**

The course is designed with national standards of recreational management services with national Council on Accreditation (COA) of National Recreation and Park Association (NRPA) cooperated with American Association for Physical Activity and Recreation (AAPAR). This course introduces students to program development processes in recreation and leisure services. Emphasis is on creating and implementing opportunities for positive recreation and leisure experiences.

**SPSC-271. INTRODUCTION TO MANAGEMENT IN SPORT & RECREATION: 3:3:0**

This course provides an overview of the various sport industry segments and the careers found in these industry segments.

**SPSC-272. GOVERNANCE AND INTERNATIONAL ASPECTS OF SPORT: 3:3:0**

This course provides an introduction to the history and philosophy of sport, leisure, and recreation in the United States. In addition to the structure of interscholastic athletics, collegiate athletics, and professional sports, and various sport national governing bodies will be discussed. Credit: three hours.

**SPSC-274. COMMUNICATION IN SPORT: 3:3:0**

This course will examine the various forms of communication in the sport industry. The effective application of media and public relations in relation to the sport organization's success will be emphasized. Credit: three hours.

**SPSC-280. PRACTIUM OF SPORT MANAGEMENT: 2:2:0**

Practicum of sport management is a part-time observation and experience in the sport industry with two (2) credits and 80 clock hours. Practicum is often performed in proximity to the campus and usually involves observing and providing assistance to another professional. They must be directed and evaluated by a qualified faculty member with appropriate supervision by an on-site professional.

**SPSC 312 PSYCHOLOGY OF COACHING: 3:3:0**

Psychology is increasingly seen as an important aspect in sport and plays an important role in the position of coach. This course is designed to introduce students to prevalent theories, concepts and research or applied interests within the sub-discipline of sport psychology. Practical application of this information is provided for students who may be pursuing careers in coaching and the sport industry. Emphases will be placed on the role of the coach in regard to enhancing the performance of athlete, team and organization.

**SPSC-371. FINANCIAL & ECONOMIC ASPECTS OF SPORT & RECREATION: 3:3:0**

This course examines the economic and financial and accounting principles and practices and their application in for-profit and nonprofit sport organizations. Topics include revenue and expenses, issues impacting revenue and expenses, budgeting methods, economic impact, and methods of funding for-profit and nonprofit sport organizations and programs. Credit: three hours.

**SPSC-372. LEADERSHIP AND ETHICS IN SPORT: 3:3:0**

This is the study of the theories, principles, and practices of leadership and group interaction in sport oriented settings. The course introduces leadership applications in sport and recreation. Credit: three hours.

**SPSC-373. ORGANIZATIONAL THOERY AND BEHAVIOR IN SPORT: 3:3:0**

This course introduces organizational theories and behaviors with information needed to successfully program for sport-oriented organizations. Credit: three hours.

**SPSC-374. MARKETING IN SPORT: 3:3:0**

This course provides an overview of the principles and practices of promotions and marketing in the sport industry. Topics include sport marketing planning, market segmentation and identification of the target market, sport marketing mix, and sponsorship. Credits: three hours.

**SPSC-376. SOCIAL AND CULTURAL ASPECTS OF SPORT: 3:3:0**

This course is an examination of the interactive impact of sport and society. Credit: three hours.

**SPSC-377. AREA AND FACILITIES IN SPORT & RECREATION: 3:3:0**

This course is designed to provide knowledge and skills in effectively managing a recreation or sport facility or activity/event area. It contains both educational references and professional industry insights. Credit: three hours.

**SPSC-414. PRINCIPLES OF COACHING: 3:3:0**

This is a course for coaching management minor and applies all necessary principles and methods of coaching for the levels of professional, collegiate, interscholastic, and recreational sports. The major principles and methods may relate to the coaching philosophy and ethics, safety and injury prevention during the practice and games, developing physical conditioning of athletes, teaching and communication of the coaches, methods to improve sport skills and tactics, organization and administration of sport teams, and performance evaluation of athletes and coaching. Credit: three hours.

**SPSC-415. COACHING PRACTICUM: 3:3:0**

This is a capstone course of the coaching minor applied all necessary knowledge, skills and methods of coaching to the field experience through direct observation and participation with a sport team. It is structured as a class combined with site coaching experience. The student will be instructed theoretically by the instructor and supervised practically by the head coach of assigned team. Credit: three hours.

**SPSC 403 ORGANIZATION & ADMINISTRATION OF SPORT AND ATHLETIC PROGRAM: 3:3:0**

The philosophy of athletics and sport programs, communication and leadership skills, facilities and equipment management, budgeting, personnel management, risk management, public relations and current issues will be explored. Credit: three hours.

**SPSC-471. LEGAL AND ETHICAL ISSUES IN SPORT AND RECREATION: 3:3:0**

This course provides an overview of legislation, legal actions, and ethical concerns in the sport and recreation industries.

**SPSC-473. ANALYSIS & EVALUATION IN SPORT MANAGEMENT: 3:3:0**

This course is designed for senior students in sport management. The contents of fundamental statistical analyses, computer application, and research methods applied to evaluations in sport organization, performances of personnel, survey of sport participants and customers, and outcomes of sporting good production will be introduced and discussed. Credit: three hours.

**SPSC-475. CURRENT ISSUES IN SPORT: 3:3:0**

This course is a senior seminar, which examines the current trends and issues in the sport industry. Extensive research of current texts and journal articles is required. Credit: three hours.

**SPSC-476. INTERNSHIP IN SPORT MANAGEMENT: 12:0:0**

This is a senior capstone field experience with an approved agency in the sport industry. Students are supervised and evaluated by the faculty and the cooperating agency site supervisor. A minimum of 400 clock hours is required. An internship project is required. Prerequisite: Senior sport management major with all required course work completed prior to this capstone experience. Credit: twelve hours.

**SPSC-490, RECREATION PRACTICUM: 3:3:0**

The course is designed with national standards of recreational management services with national Council On Accreditation (COA) of National Recreation and Park Association (NRPA) cooperated with American Association for Physical Activity and Recreation (AAPAR). It is a capstone undergraduate course of the recreation management minor. The practicum should apply all necessary knowledge, skills and methods

of recreation management to the field experience through direct observation and participation in the routine operation with a private or public recreational facility. It is structured as 100 clock-hour field experience and the students will be instructed theoretically by the instructor and supervised practically by the recreational organization.



# COLLEGE OF MATHEMATICS, NATURAL SCIENCES AND TECHNOLOGY

**Dean:** Dr. Nouredine Melikechi

**Chair, Associate Dean of Student Services:** Dr. Leonard Davis

**College Director of Student Support:** Dr. Clytrice Watson

**College Director of IT Services:** Dr. Al-Sameen Khan

The mission of the College of Mathematics, Natural Sciences and Technology is to provide a high quality higher education that prepares graduates to achieve leadership status in their communities and careers.

The College offers a superb, up-to-date education in science, mathematics, and technology with rich and varied opportunities to:

- Conduct forefront research that advances the frontiers of knowledge.
- Engage in outreach to improve science, mathematics, and technology education in K-12 schools.
- Serve the citizens and state of Delaware.
- Partner locally, regionally, nationally, and internationally to leverage resources, increase impact, and create additional opportunities and networks that benefit students.

The vision of the College is to be the first choice for Delaware students interested in mathematics, natural sciences, and technology and to be widely-recognized and acclaimed for excellence in teaching, research, outreach, and service. Through its Departments, the College offers numerous different B.S., Master's and Doctoral degree programs. The Doctoral programs are focused in: Applied Mathematics, Applied Chemistry, Neuroscience, and Optics. Several federally-funded programs in the College provide scholarships for undergraduate and graduate students, in addition to opportunities to work in on-campus research groups and tutoring centers. The MARC U\*STAR and HBCU-UP SMILE programs are designed to engage DSU students and motivate them to high achievement in the natural sciences, computer science, mathematics, and pre-engineering, inside and outside of the classroom. Research centers, such as the Optical Science Center for Applied Research, and the Applied Mathematics Research Center, involve students in forefront research and discovery.

The academic programs of the College help students achieve the University's learning goals. More specifically, CMNST goals are:

- CMNST majors are prepared for success in graduate study, professional school, and careers in industry, research, government, or academia.
- Every DSU graduate is literate in science, mathematics, and technology, and can apply the related skills and knowledge to benefit his/her career, community, and personal life.
- All students develop strong critical and integrative thinking skills and acquire broad-based knowledge needed for success in the global society.

## **MILITARY SCIENCE PROGRAM**

### **The Four-Year Program**

Students at Delaware State University, through a Cross-Enrollment Agreement with the University of Delaware, have the opportunity to earn a commission as a Second Lieutenant in the U.S. Army upon completion of the Military Science Program and baccalaureate degree requirements. The four-year program consists of the completion of eight (8) semester courses, totaling twelve (12) credits, and one (1) summer encampment. Courses at the 100 and 200 level are open electives to freshmen and sophomores. These courses are offered on the campus of Delaware State University. A military obligation is incurred only if the student contracts for commission during the last two (2) years and receives pay.

### **The Two-Year Program**

The two-year program is designed to provide sophomores and juniors, who have not completed the first two (2) years of military science, the opportunity to qualify for advanced ROTC and to obtain a commission. The student has at least two (2) years of full-time academic status remaining to qualify. As a prerequisite, the student must complete a four-week summer basic camp. Students are paid while attending the camp. Military veterans generally qualify automatically for the two-year program.

### **Advanced Camp**

The ROTC student desiring to receive a commission must successfully complete a six-week summer encampment, normally between the junior and senior years. The camp allows the student to apply, in a totally military environment, those leadership and technical skills studied on campus. Students are provided uniforms; food, lodging, and medical care at no cost and are paid during the period.

### **Pay and Allowance**

ROTC students contracting for a commission during the junior and senior years receive a subsistence allowance of \$450-500 per academic month. Obligation: Up to four (4) years of active duty (full-time employment), or eight (8) years of part-time employment (one (1) weekend per month and an annual two-week encampment) in the National Guard or Reserve Components, upon receipt of a commission.

### **Army ROTC Scholarship**

Two-, three-, and four-year scholarships are awarded on the basis of academic merit, athletic ability, and leadership potential. Scholarships pay tuition and fees up to \$20,000 a year, \$1,200 for books per year, and between \$300-\$500 for subsistence allowance per academic month. Obligation: Up to four (4) years of active duty (full-time employment), or eight (8) years of part-time employment (one (1) weekend per month and an annual two-week encampment) in the National Guard or Reserve Components, upon receipt of a commission. A limited number of scholarships are available to qualified students who desire a commission in the Army Reserve or National Guard.

### **Academic Delay**

ROTC graduates may apply for a delay from entry on active duty for the purpose of obtaining an additional academic degree.

### **Air Force ROTC Program**

#### **The Air Force Reserve Officer Training Program**

Students at Delaware State University, through a cross-enrollment agreement with the University of Delaware, have the opportunity to earn a commission as a second lieutenant in the U.S. Air Force while completing their college degree requirements.

### **Four-Year Program**

The program is composed of a General Military Course (GMC) and a Professional Officer Course (POC). The first two (2) years, the GMC, are normally for freshman and sophomores and provide a general introduction to the Air Force (including the history of Air Power) and the various career fields. Students enrolled in the GMC who are not receiving an Air Force scholarship incur no reserve or active duty service obligation to the Air Force and may elect to discontinue the program at any time. The final two (2) years, the POC, concentrate on developing leadership/management skills and the study of American defense policy. Students must compete for entry into the POC. Once accepted, they are under contract with the Air Force to complete the program and serve a minimum of four (4) years on active duty. Pilot and navigator candidates incur an additional obligation because of specialized training following commissioning. ALL STUDENTS ENROLLED IN THE LAST TWO (2) YEARS OF THE PROGRAM RECEIVE APPROXIMATELY \$1,000 ANNUALLY, TAX FREE.

Students in the four-year program who successfully complete the first two (2) years of the program and are accepted into the POC program must attend four (4) weeks of field training at a designated Air Force base during the summer after completing the sophomore year of college. Students desiring to enter the AFROTC four-year program should register for GMC classes in the same manner as for other courses.

### **Two-Year Program**

The program is normally offered to prospective juniors and seniors. The academic requirements for this program are identical to the final two (2) years of the four-year program. During the summer preceding entry into the program, all candidates must complete a six-week training session at a designated Air Force base.

## **Curriculum in Air Force ROTC General Military Course (GMC)**

### **Freshman Year**

The Development of Air Power I/II - AF 100 (Fall) and AF 101 (Spring). These two (2) one-semester hour courses provide a history of the role of aerospace power in the military and in society. AFROTC cadets also take a one-and-a-half hour leadership laboratory each week.

### **Sophomore Year**

The Air Force Today I/II - AF 200 (Fall) and AF 201 (Spring). In combination, these two (2) one-semester hour courses are designed to introduce the student to the roles of the Department of Defense and the U.S. Air Force in our society. AFROTC cadets also take a one-and-a-half hour leadership laboratory each week.

### **Junior Year**

Leadership and Management I/II - AF 310 (Fall) and AF 311 (Spring). Each of these courses consists of three (3) semester-hours of academic classes and one (1) hour of leadership laboratory each week. Here the student is introduced to leadership and management concepts. The course is designed to provide a solid foundation for the continued development of Air Force Officer professional skills.

### **Senior Year**

National Security Forces in U.S. Society I/II - AF 410 (Fall) and AF 411 (Spring). Each of these consists of three (3) semester-hours of academic classes and two (2) hours of leadership laboratory each week. These courses conceptually focus on national security policy and the role of the U.S. Armed Forces in establishing and implementing that policy.

GMC courses are open to freshmen and sophomores and POC courses are open to juniors and seniors for credit without regard to enrollment in the AFROTC program. Only the formally enrolled AFROTC cadets attend the leadership laboratories.

**All Air Force Reserve Officer Training Corps courses are offered only on the campus of the University of Delaware. Transportation to and from the University of Delaware is provided.**

### **Scholarships Available**

The AFROTC College Scholarship Program provides two-year to three-and-a-half-year scholarships to students on a competitive basis. Scholarships are currently available in numerous technical fields and are based on merit and not need. Those selected receive full tuition, lab expenses, incidental fees and book reimbursement, and a nontaxable allowance of \$300 monthly. Any student accepted by the Delaware State University may apply for these scholarships. AFROTC membership is required if one (1) receives an AFROTC scholarship.

### **General Requirements for Acceptance into the POC**

The student must complete the General Military Course and a four-week field training session, or the six-week field training session, pass the Air Force Officer Qualification Test, be physically qualified, be in good academic standing, and meet age requirements. Successful completion of the Professional Officer Course and a bachelor's degree (or higher) are prerequisites for a commission as a second lieutenant in the United States Air Force.

### **MILITARY SCIENCE (MLSC) (47)**

<b>MLSC-101. DEVELOPMENT OF AIR POWER I</b>	<b>1:1:0</b>
Credit, one hour.	

<b>MLSC-102. DEVELOPMENT OF AIR POWER II</b>	<b>1:1:0</b>
Credit, one hour.	

<b>MLSC-105. ORGANIZATIONAL LEADERSHIP I</b>	<b>2:2:0</b>
Concepts of leadership, basic organizational leadership, practical exercise in interpersonal communications, and decision-making/problem-solving process are covered.	
Credit, two hours.	

<b>MLSC-106. ORGANIZATIONAL LEADERSHIP II</b>	<b>2:2:0</b>
Use of maps, aerial photographs, and terrain features; land navigation through use of the lensatic compass and topographic map; methods of presenting instruction and briefings; and exercises in individual and group problem solving.	
Credit, two hours.	

<b>MLSC-110. THE FOUNDATIONS OF THE USAF I</b>	<b>1:1:0</b>
The Foundations of the USAF I and II courses combined survey the history and organization of the Air Force, its benefits and opportunities, and leadership skills. Should be taken in the freshman year.	
Credit, one hour.	

<b>MLSC-111. THE FOUNDATIONS OF THE USAF II</b>	<b>1:1:0</b>
The Foundations of the USAF I and II courses combined survey the history and organization of the Air Force, its benefits and opportunities, and leadership skills. Should be taken in the freshman year.	
Credit, one hour.	

<b>MLSC-150. INITIAL MILITARY TRAINING I (AFROTC)</b>	<b>0:0:0</b>
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Credit, none.

**MLSC-151. INITIAL MILITARY TRAINING II (AFROTC) 0:0:0**

Credit, none.

**MLSC-166. INDEPENDENT STUDY – SPECIAL PROJECT I (ROTC) 1-2:2:2**

A two-hour hands-on course to develop individuals in squad-level training.

Credit, one to two hours.

**MLSC-205. ARMY ORGANIZATIONAL LEADERSHIP AND MANAGEMENT I 2:2:0**

Principles of military organization, exercises in management planning and organizing, continued development of decision-making and problem-solving capabilities, and introduction to individual military training.

Credit, two hours.

**MLSC-206. ARMY ORGANIZATIONAL LEADERSHIP AND MANAGEMENT II 2:2:0**

Advanced method of presenting instruction, practical exercises in patrolling, physical training instruction, introduction to military drill, and evaluation of problem-solving skills.

Credit, two hours.

**MLSC-210. THE EVOLUTION OF US AIR/SPACE POWER I 1:1:0**

The Evolution: US Air/Space Power I and II courses combined survey the history of air power from the 18th century to the present. Should be taken in the sophomore year.

Credit, one hour.

**MLSC-211. THE EVOLUTION OF US AIR/SPACE POWER II 1:1:0**

The Evolution: US Air/Space Power I and II courses combined survey the history of air power from the 18th century to the present. Should be taken in the sophomore year.

Credit, one hour.

**MLSC-250. FIELD TRAINING PREP I (AFROTC) 0:0:0**

Credit, none.

**MLSC-251. FIELD TRAINING PREP II (AFROTC) 0:0:0**

Credit, none.

**MLSC-266. INDEPENDENT STUDY – SPECIAL PROJECT II (ROTC) 1-2:2:2**

A two-hour hands-on course to develop individuals in squad-level training.

Credit, one to two hours.

**MLSC-305. APPLIED LEADERSHIP I 2:2:0**

Leadership and management case studies, the military manager's role in today's Army, military drill, basic weapons familiarization, and advanced physical training instruction.

Prerequisites: Completion of the basic course or basic summer camp.

Credit, two hours.

**MLSC-306. APPLIED LEADERSHIP II 2:2:0**

Continued analysis of leadership and management case studies, military tactics applied to squads and platoons, practical exercise in patrolling, orienteering, and preparation of the Advanced Camp.

Prerequisites: MLSC-305.

Credit, two hours.

**MLSC-310. LEADERSHIP STUDIES I 3:3:0**

The Leadership Studies I and II courses combined introduce leadership and management concepts. The courses are designed to provide a foundation for basic leadership and management skills, with emphasis on communications. Should be taken in the junior year.

Credit, three hours.

**MLSC-311. LEADERSHIP STUDIES II****3:3:0**

The Leadership Studies I and II courses combined introduce leadership and management concepts. The courses are designed to provide a foundation for basic leadership and management skills, with emphasis on communications. Should be taken in the junior year.

Credit, three hours.

**MLSC-350. INTERMEDIATE CADET LEADERSHIP TRAINING I (AFROTC)****0:0:0**

Credit, none.

**MLSC-351. INTERMEDIATE CADET LEADERSHIP TRAINING II (AFROTC)****0:0:0**

Credit, none.

**MLSC-405. MILITARY MANAGEMENT I****2:2:0**

Management by objectives, individual leadership assignments, administrative management, logistics managements, Army readiness program, and the role of the Army in the contemporary world.

Prerequisites: MLSC-306.

Credit, two hours.

**MLSC-406. MILITARY MANAGEMENT II****2:2:0**

Military law, operational techniques of the military team, role of the second lieutenant in today's Army, and individual leadership assignments.

Prerequisites: MLSC-306.

Credit, two hours.

**MLSC-410. NATIONAL SECURITY AFFAIRS I****3:3:0**

The National Security Affairs I and II courses combined focus on our national security policy-its evolution, actors, processes, and current issues. Emphasis is also given to military professionalism, military justice, and communication skills. Should be taken in the senior year.

Credit, three hours.

**MLSC-411. NATIONAL SECURITY AFFAIRS II****3:3:0**

The National Security Affairs I and II courses combined focus on our national security policy-its evolution, actors, processes, and current issues. Emphasis is also given to military professionalism, military justice, and communication skills. Should be taken in the senior year.

Credit, three hours.

**MLSC-450. SENIOR CADET LEADERSHIP TRAINING I (AFROTC)****0:0:0**

Credit, none.

**MLSC-451. SENIOR CADET LEADERSHIP TRAINING II (AFROTC)****0:0:0**

Credit, none.

## DEPARTMENT OF BIOLOGICAL SCIENCES AND BIOTECHNOLOGY

**Chair and Associate Professor:** Dr. Leonard Davis

**Professors:** Drs. M. Harrington, F. Helmy, G. Ofosu (Emeritus)

**Associate Professors:** Drs. V. Fondong, S. Ivey, A. Lloyd, R. MacBride,  
S. McGary, C. Watson, C. Wilson

**Assistant Professors:** Drs. H. Dhillon, P. Mennella, T. Mennella, T. Szabo-Maas, C. VanGolen

The Department of Biological Sciences provides a strong foundation in both traditional and modern areas of biology for students preparing for careers in the biological sciences and for further professional study at graduate, medical, dental, or other health-related schools.

The goals of the Department enable students:

1. To develop a clear and unbiased method of investigative thought.
2. To develop an appreciation for and an understanding of the natural world.
3. To develop their knowledge of biological principles that a modern citizen needs to make intelligent and effective decisions and adjustments to the demands of life.
4. To be competent in communicating ideas and concepts.
5. To succeed in advanced study and diverse careers requiring bioscience expertise.

In 2009, the Department upgraded its curricula into two (2) separate majors: **B.S. degree in Biological Sciences** and a **B.S. degree in Forensic Biology**.

**The B.S. in Biological Sciences has four (4) concentrations:**

- **Health Professions** - typical for Medical, Dental, professional schools.
- **Cell/Molecular/Biotechnology** - typical for research careers, graduate, and professional schools.
- **General Biology** - typical for technical jobs and health-related positions.
- **General Biology with Education** - linked to MAT degree to prepare for teaching high school Biology.

These uniquely structured, unified curricula use a common set of core courses that is highly effective for preparing students for varied careers. The strengthened set of courses is designed to prepare our students for competitive careers while giving each student the flexibility for either in-depth study (specialize) or a diverse knowledgebase (generalize). The unified structure also provides for an easier transition to another Biology curriculum-concentration within the major if career goals change as the student progresses through college.

As the faculty in Biological Sciences have active research programs, student participation in research projects, the centerpiece of successful scientific careers, is required (Capstone). All students are encouraged to become involved in research projects as early as possible to develop a strong intellectual and skill base. A key component of becoming an effective Biologist, and critical to successful preparation for a career, is curricular enhancements. The Department hosts scientific seminars by outside experts, workshops, and a Health Professions Advising Committee that includes career information, as well as mentoring and tutoring. The student organized Health Professions Club and the Biology Club provides many scientific experiences including opportunities to volunteer, an important component of a successful career.

**The B.S. in Forensic Biology:**

A major in Forensic Biology will provide students with the theoretical background and basic forensic laboratory skills, with a focus on molecular/DNA analysis, that will prepare students for an entry level career position in a laboratory, or to pursue advanced study in related fields. While DSU will provide you with outstanding training in the classroom, there is no substitute for hands-on learning by practicing forensics in the field. As such, all Forensic Biology majors are required to engage in an internship during the summer between the junior and senior years.

An individual working in any one of the broad fields of forensics will be a scientist, a law enforcement official, an expert, a testifying witness, and a representative of the community and local government(s) who must perform at the highest level in all arenas. Therefore, beyond excellent training a successful career in forensics also requires the highest standards of integrity and responsibility. The Forensic Biology program at DSU will provide you with training, but students need to be aware that all employment opportunities in forensics-based occupations include non-academic background checks as part of the application process. For this reason, the Department will require that you sign a Social Conduct Contract pledging that you will make choices in accordance with your ambitions.

Upon acceptance to Delaware State University, and declaring Forensic Biology as your perspective major, students must obtain a grade point average (GPA) of at least 3.0 during their freshman year to advance into the Forensic Biology program; students with less than 3.0 may be considered on a provisional basis before they may advance into the Forensic Biology curriculum. Students who meet the grade requirements must apply with the Forensic Program Director during the summer prior to their sophomore year. All Forensic Biology majors must maintain a 3.0 GPA through their senior year to graduate from the program. Students failing to meet and maintain these criteria cannot continue on as Forensic Biology majors and may instead opt for one of the tracks within the Bachelor of Science in Biology program.

Students are encouraged to participate in the department's Forensics Biology Club as well as student memberships to such professional forensic association as the American Academy of Forensic Sciences and the Mid-Atlantic Association of Forensic Scientists.



## **CURRICULUM OPTIONS IN BIOLOGY**

### **BIOLOGICAL SCIENCES MAJOR**

Biology is the study of living systems including how they are organized, how they function, how they grow, and how they interact with their surroundings. The degree program provides preparation for students planning to pursue various careers that require biomedical, environmental, organismal, or biological understanding and techniques. The degree tracks utilize electives to provide the flexibility to prepare students who are planning to attend advanced professional studies in graduate, medical, dental, biology-related professional schools, or other bio-related careers.

### **FORENSIC BIOLOGY MAJOR**

Forensic Biology is the application of the scientific principles, methods, and techniques to situations of legal importance. The DSU Forensic Biology degree is a cross campus partnership to provide the diverse skills required of an investigator and requires students to take courses not only in biology, but also courses in criminal justice and chemistry, and one (1) course each of statistics, psychology and crime scene photography/drawing in addition to their General Education Requirements. The DSU Forensic Biology degree will provide students with the theoretical background and basic laboratory skills needed to pursue a career or advanced study in related fields. The new curriculum is aligned for program accreditation.

### **GENERAL INFORMATION**

All students in the Biological Sciences pursuing a bachelor's degree (BS) at DSU are required to complete the General Education Program as required of all students (See section on General Education Requirements). In addition, all majors in Biological Sciences must complete Biology 101-102, 210, 215, 310, a research project, and biology-based seminar courses 299, 399, 499, and an additional eighteen (18) credits of student-selected (*depending on their declared curriculum track*) advanced Biology courses. These elective courses are chosen with close faculty advisement. For specific requirements, see each curriculum.

In all curricula, the student must pass BIOL-101 with a grade of "C" or better before taking BIOL-102, and pass BIOL-102 with a grade of "C" or better before taking BIOL-210 or BIOL-215. In order for a student to take any 300 or 400 level Biology Department course, they must also pass both BIOL-210 and BIOL-215 with a grade of "C" or better. These grade requirements take precedence over, and supersede any other prerequisites for all 300 or 400 level Biology electives. Biology majors must have a grade of "C" or better in all science and math courses taken in the college (CMNST) and other standards defined in their chosen major. All students must pass the Biology Comprehensive Assessment (BCA) examination of core courses given to all students in BIOL-399, or when offered at the end of junior year. If they do not pass, then the student must take BIOL-498 and pass the BCA, which is required for successful completion of this course, and the Biology Program.

Students in Biology are able to select their Advisor from the Department faculty and they are REQUIRED to meet more than once each semester, beyond course registration periods. Students who need academic help are encouraged to consult with the Instructor and Advisor to identify resources such as tutoring services. The Department, University, and other academic offices provide support for our students, including tutoring and mentoring to facilitate your success.

**MINOR IN BIOLOGY**

For a minor in Biology, eighteen (18) hours are required distributed as follows: Biology 101-102, 210, and six (6) hours of electives.

**MINOR IN FORENSIC SCIENCE**

The DSU Minor in Forensic Science requires students to take courses in Biology, courses related to criminal justice, a course in statistics, and courses in chemistry; however, the specific number will depend on the student's major. Information is available in the Biology Department's office.

## B.S. DEGREE IN BIOLOGICAL SCIENCES – HEALTH PROFESSIONS

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-101	General Biology I	4	BIOL-102	General Biology II	4
CHEM-101	General and Analytical Chem. I	4	CHEM-102	General and Analytical Chem. II	4
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
xx-xxx	Social Science	3	MTSC-122	Trigonometry	3
BIOL-191	University Seminar I	1	BIOL-192	University Seminar II	1
			BIOL-194	Intro. to Biology Professions	1
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-215	Cell Biology	4	BIOL-210	Genetics	4
CHEM-301	Organic Chemistry I	4	CHEM-302	Organic Chemistry II	4
MVSC-100	Fitness and Wellness	2	ENGL-2xx	Literature	3
MTSC-261	Calculus for Life Sciences	4	BIOL-321	Biostatistics	3
ENGL-200	Speech	3	BIOL-299	Soph. Seminar – Sci. Literature	1
	Total Credits	17		Total Credits	15
Summer Clinical Experience					
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-310	Molecular Biology	4	CHEM-403	Biochemistry OR	
BIOL-307	Principles of Physiology	4	BIOL-422	Biochemical Mechanisms	4
HIST-xxx	History	3	GLST-395	Global Societies	3
PHYS-211	Fundamentals of Physics I	4	PHYS-212	Fundamentals of Physics II	4
			BIOL-399	Junior Seminar-Sci. Writing*	1
			BIOL-370	Human Anatomy	4
	Total Credits	15		Total Credits	16
Summer Research Internship					
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
xx-xxx	Arts and Humanities	3	PHIL-	Ethics course (Humanities)	3

			105/ 202/322		
BIOL- xxx	Biology Elective	4	BIOL- xxx	Biology Elective	4
BIOL- xxx	Biology Elective	4	xx-xxx	Open Elective	3-4
BIOL- 301	Problems in Biology OR		xx-xxx	Open Elective	3-4
BIOL- 451	Senior Research (Capstone I)**	2	BIOL- 499	Senior Seminar (Capstone II)**	1
	Total Credits	13		Total Credits	14- 16

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

Total Credits: 121-123

**BIOLOGY ELECTIVES:** Students must not take less than 18 credits of Biology courses from the course elective list below. These are the only ones that can satisfy the Biology elective requirement for this track. Substitutions can be requested, under special circumstances, but require written approval of advisor and Chair in advance.

The Curriculum Tracks are designed for the intended career goal, including anticipation of entrance examinations, so students should adhere to the suggested sequence. It is advisable for the student to check possible post graduate school requirements during their Junior year to ensure that satisfy expectations of intended graduate/profession choices.

**REQUIREMENTS:** Students cannot take either BIOL-210 or BIOL-215 without first passing both BIOL-101 and BIOL-102 with a grade of "C" or better. In order for a student to take any 300 or 400 level Biology Department course, they must also pass both BIOL-210 and BIOL-215 with a "C" or better. These grade requirements take precedence over, and supersede any lesser specific prerequisites of all 300 or 400 level Biology electives. All students must pass the Biology Comprehensive Assessment (BCA) examination of core courses given to all students in BIOL-399. If they do not pass, then the student must take BIOL-498 and pass the BCA, which is required for successful completion of this course, and the biology program.

**SPECIAL NOTES:** For all programs and tracks, a grade of –C” or better is required for all Biology courses. For the Cell/Molecular/Biotechnology and for the Health Professions tracks, a grade of “C” or better is also required in all CMNST courses.

All Biology majors must complete an independent research project. Those who have completed a research project with a biology faculty member (e.g. BIOL-301 for credit, or via a paid stipend) prior to the beginning of their senior year, and especially if the project was an internship at another institution, the student must present their data to their advisor in order to be exempted from the required Senior Capstone I course. If they have not completed a research project, or their internship is inadequate, then they must register for BIOL-451 or 452 to complete a Capstone research project.

If you take, BIOL-422 instead of CHEM-403, then you will need to take another Chemistry course if you want a minor in Chemistry – Instrumental Analysis (CHEM-306) with lab is suggested. Another set of courses the student can consider is PHYS-317 (Foundations of Bioengineering) and PHYS-409 (Biosensors and Bio-instrumentation) as electives with advisor, instructor, and Biology Chair approval.

All Biology majors are required to successfully complete Senior Seminar (Capstone II, BIOL-499), no exceptions.

**General Note:** The minimum University requirement for graduation is 121 hours; in Biology you will usually complete between 121-125 hours depending on selections.

### **Health Professions**

#### **Biology Electives:**

BIOL-305 Developmental Biology  
BIOL-311 Neuroscience  
BIOL-322 Microbiology  
BIOL-352 Histology  
BIOL-411 Pharmacology  
BIOL-420 Immunology  
BIOL-317 Principles of Virology  
BIOL-302 Comp. Vertebrate Anatomy.  
BIOL-315 Behavior

#### **Open Electives:**

MTSC-252 Calculus II  
PSYC-208 Health Psychology  
PSYC-316 Developmental Psychology  
PSYC-402 Abnormal Psychology  
SCCJ-206 Cultural Anthropology  
MVSC-355 Physiology of Exercise  
MVSC-356 Biomechanics

## B.S. DEGREE IN BIOLOGICAL SCIENCES – CELL / MOLECULAR / BIOTECHNOLOGY

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-101	General Biology I	4	BIOL-102	General Biology II	4
CHEM-101	General and Analytical Chem. I	4	CHEM-102	General and Analytical Chem. II	4
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
XXXX-xxx	Social Science	3	MTSC-122	Trigonometry	3
BIOL-191	University Seminar I	1	BIOL-192	University Seminar II	1
			BIOL-194	Intro. to Biology Professions	1
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-215	Cell Biology	4	BIOL-210	Genetics	4
CHEM-301	Organic Chemistry I	4	CHEM-302	Organic Chemistry II	4
MVSC-100	Fitness and Wellness	2	ENGL-2xx	Literature	3
MTSC-261	Calculus for Life Sciences	4	BIOL-321	Biostatistics	3
ENGL-200	Speech	3	BIOL-299	Soph. Seminar – Sci. Literature	1
	Total Credits	17		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-310	Molecular Biology	4	CHEM-403	Biochemistry OR	
BIOL-xxx	Biology Elective	4	BIOL-422	Biochemical Mechanisms	4
HIST-xxx	History	3	GLST-395	Global Societies	3
PHYS-211	Fundamentals of Physics I	4	PHYS-212	Fundamentals of Physics II	4
			BIOL-399	Junior Seminar-Sci. Writing*	1
			BIOL-471	Nucleic Acids Biotechnology	4
	Total Credits	15		Total Credits	16
Summer Research Internship					
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr

xx-xxx	Arts and Humanities	3	PHIL-105/202/322	Ethics course (Humanities)	3
BIOL-472	Protein Biotechnology	4	BIOL-410	Advanced Molecular Biology	4
BIOL-415	Advanced Cell Biology	4	BIOL-xxx	Biology Elective	4
BIOL-301	Problems in Biology OR		xx-xxx	Open Elective	3-4
BIOL-451	Senior Research (Capstone I)**	2	BIOL-499	Senior Seminar (Capstone II)**	1
	Total Credits	13		Total Credits	15-16

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

Total Credits: 122-123
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**BIOLOGY ELECTIVES:** Students must not take less than 18 credits of Biology courses from the course elective list below. These are the only ones that can satisfy the Biology elective requirement for this track. Substitutions can be requested, under special circumstances, but require written approval of advisor and Chair in advance.

The Curriculum Tracks are designed for the intended career goal, including anticipation of entrance examinations, so students should adhere to the suggested sequence. It is advisable for the student to check possible post graduate school requirements during their Junior year to ensure that satisfy expectations of intended graduate/profession choices.

**REQUIREMENTS:** Students cannot take either BIOL-210 or BIOL-215 without first passing both BIOL-101 and BIOL-102 with a grade of "C" or better. In order for a student to take any 300 or 400 level Biology Department course, they must also pass both BIOL-210 and BIOL-215 with a "C" or better. These grade requirements take precedence over, and supersede any lesser specific prerequisites of all 300 or 400 level Biology electives. All students must pass the Biology Comprehensive Assessment (BCA) examination of core courses given to all students in BIOL-399. If they do not pass, then the student must take BIOL-498 and pass the BCA, which is required for successful completion of this course, and the biology program.

**SPECIAL NOTES:** For all programs and tracks, a grade of "C" or better is required for all Biology courses. For the Cell/Molecular/Biotechnology and for the Health Professions tracks, a grade of "C" or better is also required in all CMNST courses.

All Biology majors must complete an independent research project. Those who have completed a research project with a biology faculty member (e.g. BIOL-301 for credit, or via a paid stipend) prior to the beginning of their senior year, and especially if the project was an internship at another institution, the student must present their data to their advisor in order to be exempted from the required Senior Capstone I course. If they have not completed a research project, or their internship is inadequate, then they must register for BIOL-451 or 452 to complete a Capstone research project.

If you take, BIOL-422 instead of CHEM-403, then you will need to take another Chemistry course if you want a minor in Chemistry – Instrumental Analysis (CHEM-306) with lab is suggested. Another set of courses the student can consider is PHYS-317 (Foundations of Bioengineering) and PHYS-409 (Biosensors and Bio-instrumentation) as electives with advisor, instructor, and Biology Chair approval.

All Biology majors are required to successfully complete Senior Seminar (Capstone II, BIOL-499), no exceptions.

**General Note:** The minimum University requirement for graduation is 121 hours; in Biology you will usually complete between 121-125 hours depending on selections.

### **Cell/Molecular/Biotechnology**

#### **Biology Electives:**

BIOL-305 Developmental Biology  
BIOL-322 Microbiology  
BIOL-375 Mol. Genetics and Genomics  
BIOL-420 Immunology  
BIOL-317 Principles of Virology  
BIOL-405 Cell Morphogenesis  
BIOL-307 Principles of Physiology  
BIOL-370 Human Anatomy

#### **Open Electives:**

MGMT-105 Management Processes  
MGMT-325 Organizational Behavior  
MGMT-341 Business Ethics  
MGMT-435 Entrepreneurship  
MKT-300 Principles of Marketing  
CSCI-301 Introduction to Bioinformatics  
MTSC-252 Calculus II  
BIOL-411 Pharmacology  
BIOL-311 Neuroscience



## B.S. DEGREE IN BIOLOGICAL SCIENCES – GENERAL BIOLOGY

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-101	General Biology I	4	BIOL-102	General Biology II	4
CHEM-101	General and Analytical Chem. I	4	CHEM-102	General and Analytical Chem. II	4
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
XXXX-xxx	Social Science	3	MTSC-122	Trigonometry	3
BIOL-191	University Seminar I	1	BIOL-192	University Seminar II	1
			BIOL-194	Intro. to Biology Professions	1
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-215	Cell Biology	4	BIOL-210	Genetics	4
CHEM-301	Organic Chemistry I	4	CHEM-302	Organic Chemistry II	4
MVSC-100	Fitness and Wellness	2	ENGL-2xx	Literature	3
XXXX-xxx	Statistics	3	HIST-xxx	History	3
ENGL-200	Speech	3	BIOL-299	Soph. Seminar – Sci. Literature	1
	Total Credits	16		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-310	Molecular Biology	4	CHEM-403	Biochemistry OR	
BIOL-205	Ecology	4	BIOL-422	Biochemical Mechanisms	4
BIOL-xxx	Biology Elective	4	GLST-395	Global Societies	3
PHYS-111	Introduction to Physics I	4	PHYS-112	Introduction to Physics II	4
			BIOL-399	Junior Seminar-Sci. Writing*	1
			BIOL-xxx	Biology Elective	4
	Total Credits	16		Total Credits	16
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
XXXX-xxx	Arts and Humanities	3	XXXX-xxx	Arts and Humanities	3
BIOL-	Biology Elective	4	BIOL-	Biology Elective	4

xxx			xxx		
BIOL- xxx	Biology Elective	4	XXXX- xxx	Open Elective	3-4
BIOL- 301	Problems in Biology OR		XXXX- xxx	Open Elective	3-4
BIOL- 451	Senior Research (Capstone I)**	2	BIOL- 499	Senior Seminar (Capstone II)**	1
	Total Credits	13		Total Credits	14- 16

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

Total Credits: 121-123

**BIOLOGY ELECTIVES:** Students must not take less than 18 credits of Biology courses from the course elective list below. These are the only ones that can satisfy the Biology elective requirement for this track. Substitutions can be requested, under special circumstances, but written approval of advisor and Chair is needed.

The Curriculum Tracks are designed for the intended career goal, including anticipation of entrance examinations, so students should adhere to the suggested sequence. It is advisable for the student to check possible post graduate school requirements during their Junior year to ensure that satisfy expectations of intended graduate/profession choices.

**REQUIREMENTS:** Students cannot take either BIOL-210 or BIOL-215 without first passing both BIOL-101 and BIOL-102 with a grade of "C" or better. In order for a student to take any 300 or 400 level Biology Department course, they must also pass both BIOL-210 and BIOL-215 with a "C" or better. These grade requirements take precedence over, and supersede any lesser specific prerequisites of all 300 or 400 level Biology electives. All students must pass the Biology Comprehensive Assessment (BCA) examination of core courses given to all students in BIOL-399. If they do not pass, then the student must take BIOL-498 and pass the BCA, which is required for successful completion of this course, and the biology program.

**SPECIAL NOTES:** For all programs and tracks, a grade of "C" or better is required for all Biology courses. For the Cell/Molecular/Biotechnology and for the Health Professions tracks, a grade of "C" or better is also required in all CMNST courses.

All Biology majors must complete an independent research project. Those who have completed a research project with a biology faculty member (e.g. BIOL-301 for credit, or via a paid stipend) prior to the beginning of their senior year, and especially if the project was an internship at another institution, the student must present their data to their advisor in order to be exempted from the required Senior Capstone I course. If they have not completed a research project, or their internship is inadequate, then they must register for BIOL-451 or 452 to complete a Capstone research project.

If you take, BIOL-422 instead of CHEM-403, then you will need to take another Chemistry course if you want a minor in Chemistry – Instrumental Analysis (CHEM-306) with lab is suggested. Another set of courses the student can consider is PHYS-317 (Foundations of Bioengineering) and PHYS-409 (Biosensors and Bio-instrumentation) as electives with advisor, instructor, and Biology Chair approval.

All Biology majors are required to successfully complete Senior Seminar (Capstone II, BIOL-499), no exceptions.

**General Note:** The minimum University requirement for graduation is 121 hours; in Biology you will usually complete between 121-125 hours depending on selections.

### **General Biology**

#### **Biology Electives:**

(at least one from each group I, II, III)

BIOL-200 Invertebrate Zoology (III)

BIOL-302 Comp. Vertebrate Anatomy (I)

BIOL-305 Developmental Biology (I)

BIOL-315 Behavior (III)

BIOL-322 Microbiology (II)

BIOL-352 Histology (II)

BIOL-420 Immunology (I)

BIOL-421 Microbial Physiology-Ecology (II)

BIOL-205 Ecology (III)

#### **Open Electives:**

NTRS-311 Mammalogy

NTRS-312 Ornithology

NTRS-314 Ichthyology

NTRS-465 Marine Biology

NTRS-456 Wetlands Biology

AGRI-205 Plant Physiology

AGRI-212 General Botany

AGRI-213 Systematic Botany

**B.S. DEGREE IN BIOLOGICAL SCIENCE – GENERAL BIOLOGY  
WITH EDUCATION\*\*\***

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-101	General Biology I	4	BIOL-102	General Biology II	4
CHEM-101	General and Analytical Chem. I	4	CHEM-102	General and Analytical Chem. II	4
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
XXXX-xxx	Social Science	3	MTSC-122	Trigonometry	3
BIOL-191	University Seminar I	1	BIOL-192	University Seminar II	1
			BIOL-194	Intro. to Biology Professions	1
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-215	Cell Biology	4	BIOL-210	Genetics	4
CHEM-301	Organic Chemistry I	4	CHEM-302	Organic Chemistry II	4
MVSC-100	Fitness and Wellness	2	ENGL-2xx	Literature	3
XXXX-xxx	Statistics	3	HIST-xxx	History	3
ENGL-200	Speech	3	BIOL-299	Soph. Seminar – Sci. Literature	1
	Total Credits	16		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-310	Molecular Biology	4	CHEM-403	Biochemistry OR	
BIOL-205	Ecology	4	BIOL-422	Biochemical Mechanisms	4
BIOL-xxx	Biology Elective	4	GLST-395	Global Societies	3
PHYS-111	Introduction to Physics I	4	PHYS-112	Introduction to Physics II	4
			BIOL-399	Junior Seminar-Sci. Writing*	1
			BIOL-xxx	Biology Elective	4
	Total Credits	16		Total Credits	16
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
XXXX-xxx	Arts and Humanities	3	XXXX-xxx	Arts and Humanities	3

BIOL-xxx	Biology Elective	4	BIOL-xxx	Biology Elective	4
BIOL-xxx	Biology Elective	4	XXXX-xxx	Open Elective	3-4
BIOL-301	Problems in Biology OR		XXXX-xxx	Open Elective	3-4
BIOL-451	Senior Research (Capstone I)**	2	BIOL-499	Senior Seminar (Capstone II)**	1
	Total Credits	13		Total Credits	14-16

Enroll in 5<sup>th</sup> year in the Department of Education's one year MAT program to also receive a Masters of Arts in Teaching, which is required and provides vehicle for certification.

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

**\*\*\*M.A.T. Degree in Teaching**

Total Credits: 121-123
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**BIOLOGY ELECTIVES:** Students must not take less than 18 credits of Biology courses from the course elective list below. These are the only ones that can satisfy the Biology elective requirement for this track. Substitutions can be requested, under special circumstances, but written approval of advisor and Chair is needed.

The Curriculum Tracks are designed for the intended career goal, including anticipation of entrance examinations, so students should adhere to the suggested sequence. It is advisable for the student to check possible post graduate school requirements during their Junior year to ensure that satisfy expectations of intended graduate/profession choices.

**REQUIREMENTS:** Students cannot take either BIOL-210 or BIOL-215 without first passing both BIOL-101 and BIOL-102 with a grade of "C" or better. In order for a student to take any 300 or 400 level Biology Department course, they must also pass both BIOL-210 and BIOL-215 with a "C" or better. These grade requirements take precedence over, and supersede any lesser specific prerequisites of all 300 or 400 level Biology electives. All students must pass the Biology Comprehensive Assessment (BCA) examination of core courses given to all students in BIOL-399. If they do not pass, then the student must take BIOL-498 and pass the BCA, which is required for successful completion of this course, and the biology program.

**SPECIAL NOTES:** For all programs and tracks, a grade of "C" or better is required for all Biology courses. For the Cell/Molecular/Biotechnology and for the Health Professions tracks, a grade of "C" or better is also required in all CMNST courses.

All Biology majors must complete an independent research project. Those who have completed a research project with a biology faculty member (e.g. BIOL-301 for credit, or via a paid stipend) prior to the beginning of their senior year, and especially if the project was an internship at another institution, the student must present their data to their advisor in order to be exempted from the required Senior Capstone I course. If they have not completed a research project, or their internship is inadequate, then they must register for BIOL-451 or 452 to complete a Capstone research project.

If you take, BIOL-422 instead of CHEM-403, then you will need to take another Chemistry course if you want a minor in Chemistry – Instrumental Analysis (CHEM-306) with lab is suggested. Another set of courses the student can consider is PHYS-317 (Foundations of Bioengineering) and PHYS-409 (Biosensors and Bio-instrumentation) as electives with advisor, instructor, and Biology Chair approval.

All Biology majors are required to successfully complete Senior Seminar (Capstone II, BIOL-499), no exceptions.

**General Note:** The minimum University requirement for graduation is 121 hours; in Biology you will usually complete between 121-125 hours depending on selections.

### **General Biology –Teaching High School Biology**

Biology Electives needed:  
(from all at least one in groups I, II, III)  
BIOL-200 Invertebrate Zoology (III)  
AGRI-212 General Botany (III)  
BIOL-322 Microbiology (II)

OTHER Possible Electives:  
BIOL-302 Comp. Vertebrate Anatomy (I)  
BIOL-305 Developmental Biology (I)  
BIOL-315 Behavior (III)  
BIOL-352 Histology (II)  
BIOL-420 Immunology (I)  
BIOL-421 Microbial Physiology-Ecology (II)

Open Electives needed:

PSYC-201 General Psychology  
PSYC-316 Developmental Psychology  
PSED-101 Geology

AGRI-205 Plant Physiology  
AGRI-213 Systematic Botany  
NTRS-311 Mammalogy  
NTRS-312 Ornithology  
NTRS-314 Ichthyology  
NTRS-456 Wetlands Biology  
NTRS-465 Marine Biology

## B.S. DEGREE IN FORENSIC BIOLOGY

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-101	General Biology I	4	BIOL-102	General Biology II	4
CHEM-101	General and Analytical Chem. I	4	CHEM-102	General and Analytical Chem. II	4
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
PSYC-201	General Psychology (Social Science)	3	MTSC-122	Trigonometry	3
BIOL-191	University Seminar I	1	BIOL-192	University Seminar II	1
			BIOL-194	Intro. to Biology Professions	1
	Total Credits	15		Total Credits	16
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-215	Cell Biology	4	BIOL-210	Genetics*	4
CHEM-301	Organic Chemistry I	4	CHEM-302	Organic Chemistry II	4
MVSC-100	Fitness and Wellness	2	SCCJ-104	Introduction to Criminal Justice	3
MTSC-261	Calculus for Life Sciences	4	BIOL-321	Biostatistics	3
BIOL-225	Survey of Forensic Science	3	BIOL-255	Forensic/Investigative Biol. Lab	3
	Total Credits	17		Total Credits	17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
BIOL-310	Molecular Biology*	4	BIOL-355	Forensic DNA Analysis	4
GLST-395	Global Societies	3	BIOL-370	Human Anatomy	4
ENGL-2xx	Literature	3	PHIL-105/ 202/322	Ethics course (Humanities)	3
BIOL-307	Principles of Physiology	4	ENGL-200	Speech	3
ART-425	Advanced Photography (Art)	3			
	Total Credits	17		Total Credits	14
Research of Forensic Science Internship					
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-211	Fundamentals of Physics I	4	PHYS-212	Fundamentals of Physics II	4
NTRS-466	Toxicology OR		CHEM-403	Biochemistry OR	

CHEM-562	Chemical Toxicology	4	BIOL-422	Biochemical Mechanisms	4
CHEM-202	Forensic Chemistry	4	SCCJ-313	Courts and Criminal Justice	3
BIOL-4xx	Senior Research (Capstone I)**	2	HIST-xxx	History	3
	Total Credits	14		Total Credits	14

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

Total Credits: 124
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**BIOLOGY ELECTIVES:** The BS in Forensic Biology is a very specialized curriculum. Students must follow curriculum carefully. Electives can be taken from Biology, Chemistry, Physics, and Mathematics as needed. These should be requested and selected in consultation with your advisor, and approved by the Forensic Biology Committee. If you are intending to obtain a post-graduate professional degree in Forensics, it is advisable for the student to check possible school requirements during their Junior year to ensure that satisfy expectations of their intended school choices.

If you change to the BS in Biology and other curriculum Tracks note that acceptance of forensic curriculum courses that are not in that tract must be approved by your advisor and the Chair in writing and at the time of your change. The other tracts are designed for the intended career goal, including anticipation of entrance examinations, so students should adhere to the suggested sequence.

**REQUIREMENTS:** Students cannot take either BIOL-210 or BIOL-215 without first passing both BIOL-101 and BIOL-102 with a grade of "C" or better. In order for a student to take any 300 or 400 level Biology Department course, they must also pass both BIOL-210 and BIOL-215 with a "C" or better. These grade requirements take precedence over, and supersede any lesser specific prerequisites of all 300 or 400 level Biology electives.

**SPECIAL NOTES:** For all programs and tracks, a grade of **“C”** or better is required for all Biology and required Forensic courses (not bolded). For the Cell/Molecular/Biotechnology and for the Health Professions tracks, and for Forensic Biology, a grade of **“C”** or better is also required in all CMNST courses. Upon acceptance to Delaware State University, and declaring Forensic Biology as perspective major, students must obtain a grade point average (GPA) of at least a B (3.0) during their freshman year to advance into the forensic biology program; the Department will require that you sign a Social Conduct Contract pledging that you will make choices in accordance with your ambitions. All Forensic Biology majors are required to engage in an internship during the summer between the junior and senior years. (See Handbook for more details)

All Biology majors must complete an independent research project. Those who have completed a research project with a biology faculty member (e.g. BIOL-301 for credit, or via a paid stipend) prior to the beginning of their senior year, and especially if the project was an internship at another institution, the student must present their data to their advisor in order to be exempted from the required Senior Capstone I course. If they have not completed a research project, or their internship is inadequate, then they must register for BIOL-451 or 452 to complete a Capstone research project.

If you take, BIOL-422 instead of CHEM-403, then you will need to take another Chemistry course if you want a minor in Chemistry – Instrumental Analysis (CHEM-306) with lab is suggested.

All Biology majors are required to successfully complete Senior Seminar (Capstone II, BIOL-499), no exceptions can be made.

**General Note:** The minimum University requirement for graduation is 121 hours; in Biology you will usually complete between 121-125 hours depending on selections.

## **BIOLOGICAL SCIENCES (BIOL)**

### **BIOL-100. INTRODUCTION TO BIOLOGY**

**4:3:2**

A one-semester course dealing with biological principles. Topics include organization of living matter, metabolism, reproduction, genetics, evolution, and ecology. Three (3) lecture hours and one (1) two-hour lab each week. The course is designed for non-Biology majors and can satisfy the General Education Natural Science requirement and cannot be used as an elective for Biology majors. Students may not take both BIOL-100 and BIOL-101 or BIOL-102 for the Natural Science requirement.

Credit, four hours.

### **BIOL-101. GENERAL BIOLOGY I**

**4:3:3**

An introduction to the study of life with emphasis on basic concepts in the areas of energy relationships, cell biology, genetics, and molecular biology. Along with General Biology II, it provides a foundation for further study in the Biological Sciences. Three (3) lecture hours, one (1) recitation hour, and one (1) three-hour lab each week. Grade of "C" or better required in both General Biology I and II before taking 200-level or higher courses.

Credit, four hours each semester.

### **BIOL-102. GENERAL BIOLOGY II**

**4:3:3**

An introduction to the study of life with emphasis on basic concepts in the areas of evolution, animal anatomy and physiology, plant biology, and ecology. Along with General Biology I, it provides a foundation for further study in the Biological Sciences. Three (3) lecture hours, one (1) recitation hour, and one (1) three-hour lab each week. Grade of "C" or better required in both General Biology I and II before taking 200-level or higher courses.

Credit, four hours each semester.

### **BIOL-103. HUMAN BIOLOGY**

**4:3:2**

The course introduces fundamental biological and scientific principles to non-science majors by studying the structures, actions, and processes of the human body. Attention will be paid to the structure and function of organs and organ systems as well as diseases of the human body such as cancer, heart disease, and infections. Three (3) lecture hours and one (1) two-hour lab each week. The course is designed for non-Biology majors and can satisfy the General Education Natural Science requirement and cannot be used as an elective for Biology majors.

Credit, four hours.

### **BIOL-105. BASIC ECOLOGY**

**4:3:2**

The study of the fundamental relationships between the living and non-living worlds with special emphasis on man's place in nature. The course is designed for non-Biology majors and can satisfy the General Education Natural Science requirement and cannot be used as an elective for Biology, Agriculture, or Natural Resources majors. Three (3) lecture hours and one (1) two-hour lab each week.

Credit, four hours.

### **BIOL-107. HUMAN HEREDITY**

**4:3:2**

An exploration of the principles of genetics as they apply to human beings. Includes patterns of inheritance, population genetics, and the impact of genetic engineering on society. The course is designed for non-Biology majors and can satisfy the General Education Natural Science requirement and cannot be used as an elective for Biology majors. Three (3) lecture hours and one (1) two-hour lab each week.

Credit, four hours.

### **BIOL-110. ESSENTIAL TOPICS IN BIOLOGY**

**4:3:3**

The course exposes students to elements of Biology that are critical for understanding the fundamental concepts that are required for K-8 educators. Instructional methods will emphasize critical thinking and development of reasoning skills in addition to mastery of content areas and understanding science as an active process. Investigative laboratory exercises will reinforce lecture topics. Additionally, laboratory exercises provide elements directly applicable in a K-8 educational setting. Three (3) lecture hours and one (1) three-hour lab each week.

Credit, four hours.

**BIOL-111. HUMAN DISEASES****4:3:2**

A survey of the types and causes of human diseases. The course will cover both acute and chronic disease states. Three (3) lecture hours and one (1) two-hour lab each week. The course is designed for non-Biology majors and can satisfy the General Education Natural Science requirement and cannot be used as an elective for Biology majors. Credit, four hours.

**BIOL-191. UNIVERSITY SEMINAR I – BIOLOGY****1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of the course. Meets two (2) hours each week. Credit, one hour.

**BIOL-192. UNIVERSITY SEMINAR II – BIOLOGY****1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of the course. Meets one (1) hour each week. Credit, one hour.

**BIOL-193. FRESHMEN BIOLOGY – QUANTITATIVE SKILLS****1:1:0**

This course will serve to introduce students to a range of skills across the curriculum necessary to successfully compete in the sciences. It will include basic computer skills, data analysis, information literacy, interpretation of data, problem solving, critical thinking, and presentation of data. It will serve as an elective for those incoming freshmen students who state they want to strengthen their quantitative skills. Meets one (1) hour each week. Credit, one hour.

**BIOL-194. INTRODUCTION TO BIOLOGY PROFESSIONS****1:1:0**

The course will introduce students to the wide variety of professions open to students with Biology or Forensic Biology degrees. Students will examine their strengths and talents and explore possible career paths. The course will utilize presentations, guest lecturers, and reflective assignments to help students determine their optimal educational path. Meets one (1) hour each week. Credit, one hour.

**BIOL-200. INVERTEBRATE ZOOLOGY****3:2:2**

A course designed to introduce the student to the major invertebrate phyla with attention given to taxonomy, morphology, physiology, ecology, and evolution. Two (2) lecture hours and one (1) two-hour lab each week. Prerequisites: BIOL-102. Credit, three hours.

**BIOL-205. ECOLOGY****4:3:3**

The study of organisms in relation to their environment. Three (3) lecture hours and one (1) three-hour lab each week. Prerequisites: BIOL-102, or consent of the Instructor. Credit, four hours.

**BIOL-207. ANATOMY AND PHYSIOLOGY I****4:2:4**

A course designed to provide students with basic knowledge of the structure and function of the human body. Four (4) lecture hours and one (1) two-hour lab each week. Primarily designed for pre-Nursing majors, not an acceptable Biology elective.

Prerequisites: Demonstrated knowledge (grade of B or higher) in high school Biology and Chemistry. BIOL-207 and 208 must be taken in sequence. A grade of "C" or better in BIOL-207 is required to enroll in BIOL-208.

Credit, four hours.

**BIOL-208. ANATOMY AND PHYSIOLOGY II****4:2:4**

A course designed to provide students with basic knowledge of the structure and function of the human body. Four (4) lecture hours and one (1) two-hour lab each week. Primarily designed for pre-Nursing majors, not an acceptable Biology elective.

Prerequisites: Demonstrated knowledge (grade of B or higher) in high school Biology and Chemistry. BIOL-207 and 208 must be taken in sequence. A grade of "C" or better in BIOL-207 is required to enroll in BIOL-208.

Credit, four hours.

**BIOL-210. GENETICS****4:3:3**

A study of the fundamental principles of inheritance and their application to plants, animals, and microorganisms. Three (3) lecture hours and one (1) three-hour lab each week.

Prerequisites: BIOL-102.

Credit, four hours.

**BIOL-215. CELL BIOLOGY****4:2:4**

A study of basic and essential processes of cells with emphasis on the correlation of structure and function at the organelle and cellular levels. Two (2) lecture hours and two (2) two-hour labs each week.

Prerequisites: BIOL-102.

Credit, four hours.

**BIOL-221. FUNDAMENTALS OF MICROBIOLOGY****4:2:4**

A study of the taxonomy, physiology, morphology, and cultivation of microorganisms with special emphasis on the relation of bacteria to the health of humans, animals, and plants. Primarily designed for pre-Nursing majors, not an acceptable Biology elective. Must be eligible for acceptance into Nursing program (GPA = 2.8) and passed both BIOL-207 and BIOL-208 with grade of "C" or better. Two (2) lecture hours and two (2) two-hour labs each week.

Prerequisites: BIOL-207, BIOL-208, with a grade of "C" or better.

Credit, four hours.

**BIOL-225. SURVEY OF FORENSICS SCIENCE****3:3:0**

This serves as a gateway course for the students who are interested in pursuing a major or minor in Forensic Biology. The course will employ hands-on learning activities, group work, and the traditional lecture format to convey the course material. The course will begin with an overview on the field of Forensic Science and specialty areas in the field (i.e., forensic pathology, entomology, etc). The general principles of crime scene investigation, collection and handling of evidence, and chain of custody will be discussed in detail as students need to understand the basic legalities of forensic investigation. The course will also explore the different field and career opportunities in forensics. Cannot be used as an elective for Biology majors.

Credit, three hours.

**BIOL-255. FORENSIC AND INVESTIGATIVE BIOLOGY LAB****3:2:4**

The course is a hands-on lab that will introduce students to the biological and laboratory aspects of forensic and investigative science including blood typing, DNA extraction and fingerprinting, hair and fiber analysis, time of death determination, the use of the microscope, and drug/alcohol and toxicology testing. Labs include DNA fingerprinting, hair and fiber analysis, blood and saliva testing, and human bone and muscle identification. Cannot be used as an elective for Biology majors.

Prerequisites: BIOL-102, BIOL-210, BIOL-225.

Credit, three hours.

**BIOL-299. SOPHOMORE SEMINAR – SCIENTIFIC LITERATURE****1:1:0**

A required course for all Biology majors. The seminar course exposes students to scientific literature and emphasizes comprehension and oral presentation of the material in scientific papers. Meets one (1) hour each week.

Prerequisites: BIOL-102, BIOL-191, BIOL-192.

Credit, one hour.

**BIOL-301. PROBLEMS IN BIOLOGY INDEPENDENT STUDY****1-6:0:1-6**

An opportunity to pursue independent study and research. May be elected in any semester with consent of the Instructor. Can be used to substitute for Senior Capstone I (BIOL-451) at one (1) credit when taking a Summer internship.

Prerequisites: Sophomore status, and consent of the Instructor.

Credit, one to six hours per semester.

**BIOL-302. COMPARATIVE VERTEBRATE ANATOMY****4:2:4**

A comparative study of the vertebrate classes with emphasis upon structure development, and evolution of the organs and organ systems. Two (2) lecture hours and two (2) two-hour labs each week.

Prerequisites: BIOL-215.

Credit, four hours.

**BIOL-305. DEVELOPMENTAL BIOLOGY****4:3:3**

A study of embryonic development with special emphasis on the frog, chick, pig, and human showing the dynamic relationship between genetics and tissue environment in forming a complete multi-cellular organism of differing tissues from a single cell. Three (3) lecture hours and three (3) hours of lab each week.

Prerequisites: BIOL-215..

Credit, four hours.

**BIOL-307. PRINCIPLES OF PHYSIOLOGY****4:3:3**

An in depth overview of the principles of human physiology with a focus on the mechanisms of physiological processes. The course is designed for students who are planning careers in Biology or the health professions, and who are preparing for entry exams such as the MCAT or GRE. Three (3) lecture hours and three (3) hours of lab each week.

Prerequisites: BIOL-215..

Credit, four hours.

**BIOL-310. MOLECULAR BIOLOGY****4:3:3**

A basic study of the principles of molecular biology including recombinant DNA technology and other approaches and methodologies used in investigating prokaryotic and eukaryotic cellular structure, development, chromosome organization, gene expression, and gene regulation. Three (3) lecture hours and three (3) hours of lab each week.

Prerequisites: BIOL-210.

Credit, four hours.

**BIOL-311. NEUROSCIENCE****4:3:3**

A basic study of the nervous system for students who are preparing for careers in biological, medical, or psychological sciences. Topics include: central nervous system (brain and spinal cord), peripheral and autonomic nervous systems, neurons, nerve pathway, transmission of information, and reflexes. Three (3) lecture hours and three (3) hours of lab each week.

Prerequisites: BIOL-215..

Credit, four hours.

**BIOL-315. BEHAVIOR****4:3:2**

An exploration of the diversity of behaviors exhibited by organisms including the physiological bases, the role of heredity and learning, and the ecological and evolutionary significance of behaviors. Three (3) lecture hours and three (3) hours of lab each week.

Prerequisites: BIOL-210.

Credit, four hours.

**BIOL-317. PRINCIPLES OF VIROLOGY****3:2:4**

A comprehensive course covering the involvement of plant and animal viruses in disease processes and includes: classification of viruses, differences between animal and plant viruses, virus cultivation, virus replication, virus entry, virus assembly, and virus vectors. Two (2) lecture hours and one (1) two-hour lab each week.

Prerequisites: BIOL-210, BIOL-215.

Credit, three hours.

**BIOL-321. BIOSTATISTICS****3:3:0**

A study of the application of mathematics and statistics to the life sciences. Three (3) lecture hours each week. Equivalent to NTRS-321.

Prerequisites: BIOL-102, MTSC-122.

Credit, three hours.

**BIOL-322. MICROBIOLOGY****4:3:3**

A comprehensive course covering the involvement of microorganisms in disease processes. This includes coverage of the relationship between host and pathogen, opportunism, the basic functions of the immune system, molecular mechanisms of pathogenesis, and a significant section on the biology of viruses. Three (3) lecture hours and three (3) hours of lab each week.

Prerequisites: BIOL-215..

Credit, four hours.

**BIOL-352. HISTOLOGY****4:2:4**

A detailed study of the microscopic anatomy of vertebrate tissues and organs including laboratory practice in the preparation of histological slides. Two (2) lecture hours and two (2) two-hour labs each week.

Prerequisites: BIOL-215..

Credit, four hours.

**BIOL-355. FORENSIC DNA INVESTIGATIONS****4:2:4**

The course will examine the theories and current practices used in criminal investigations and legal proceedings to collect, analyze, and interpret biological evidence using molecular biology with emphasis on forensic DNA analysis.

Prerequisites: BIOL-102, BIOL-210, BIOL-215.

Credit, four hours.

**BIOL-370. HUMAN ANATOMY****4:3:3**

Human Anatomy is designed to provide students in pre-professional and paraprofessional health fields with a background for further study toward their health profession. The course will lay a foundation of the structure of the human body as well as familiarity with the medical terminology relevant to function in the health industry. The course is highly recommended to be accompanied with the —sler” course, Principles of Physiology, to provide a comprehensive view of human body functions.

Prerequisites: BIOL-215..

Credit, four hours.

**BIOL-375. MOLECULAR GENETICS AND GENOMICS****4:3:3**

An overview of molecular genetic and genomic methods across a variety of biological organisms. Course includes a detailed review of literature, methods, and technology in studying biology on a global scale and understanding the underlying similarities as well as differences between organisms at a molecular genetic level. Equivalent to AGRI-375.

Prerequisites: BIOL-215..

Credit, four hours.

**BIOL-399. JUNIOR SEMINAR – SCIENTIFIC WRITING****1:1:0**

A required course for all Biology majors. The seminar course exposes students to basic elements of scientific writing and gives them the opportunity to practice writing basic scientific papers and reports. Meets one (1) hour each week.

Prerequisites: BIOL-299, Junior status.

Credit, one hour.

**BIOL-405. CELL MORPHOGENESIS****4:3:3**

A study of the latest developments in developmental biology with regard to cellular and molecular effects. Laboratories using sea urchin, frog, and chick embryos for experimental procedures will reinforce the discussion.

Prerequisites: BIOL-215.

Credit, four hours.

**BIOL-407. BIOLOGY OF CANCER****4:3:3**

This course is designed to extend the basic concepts introduced in Cell Biology and Genetics and apply them to a well-known human disease, cancer. The course covers current concepts and knowledge of cancer, including research and treatment. This student will explore the cellular and molecular mechanisms underlying cancer development with the aim of understanding how changes in the normal growth and division processes lead to the formation of tumors. Lecture topics include the natural history of cancer, oncogenes, tumor suppressors, cancer-causing viruses, signal transduction, other genetic alterations in cancer, epidemiology, health care policy and current therapeutic approaches to cancer treatment. Three (3) lecture hours and three (3) hours of laboratory per week.

Credit, four hours.

**BIOL-410. ADVANCED MOLECULAR BIOLOGY****4:3:3**

An advanced course focusing on the biotechnical aspects of molecular biology. Topics include: recent advances in cloning, PCR, DNA sequencing, genetic engineering using recombinant plasmids, and the isolation and screening of genomic libraries. The laboratory portion will focus on DNA manipulation techniques. Three (3) lecture hours and three (3) hours of lab each week.

Prerequisites: BIOL-310, CHEM-403 or BIOL-422.

Credit, four hours.

**BIOL-411. PHARMACOLOGY****4:3:4**

A study of how drugs are used to achieve therapeutic benefits. The mechanism of action of various drug types at the molecular, cellular, and interactive-system levels will be addressed. Topics will include the basis for rationale uses of medically relevant drugs in biological systems and detailing their effectiveness in various diseases and disorders. Focus will be on understanding the balance between pharmacodynamic, pharmacokinetic, and toxicological side effects that underlie effective treatments. Three (3) lecture hours and three (3) hours of lab each week.

Prerequisites: BIOL-210, BIOL-215.

Credit, four hours.

**BIOL-415. ADVANCED CELL BIOLOGY****4:3:3**

An advanced study of basic and essential processes of eukaryotic cells with the emphasis on the correlation of structure and function at the organelle and cellular level as related to their biochemical properties and physiology. Topics covered will include cell cycle regulation, cell signaling pathways, and control of apoptosis. Three (3) lecture hours and three (3) hours of lab each week.

Prerequisites: BIOL-215, CHEM-403 or BIOL-422.

Credit, four hours.

**BIOL-420. IMMUNOLOGY****4:2:4**

An introduction to general immunology focusing on principles of immunobiology, serological techniques, and immunodeficiency diseases. Three (3) lecture hours and three (3) hours of lab each week.

Prerequisites: BIOL-210, BIOL-215.

Credit, four hours.

**BIOL-421. MICROBIAL PHYSIOLOGY AND ECOLOGY****4:3:3**

A detailed study of microbial physiology, ecology, and involvement in biogeochemical cycles. Roles of bacteria, fungi, algae, and protozoa in various ecosystems will be studied. Bacterial genetics and the role of bacterial viruses will also be included. Three (3) lecture hours and three (3) hours of lab each week.

Prerequisites: BIOL-215.

Credit, four hours.

**BIOL-422. BIOCHEMICAL MECHANISMS****4:3:3**

The course is an integration of study of the molecular and cellular functions of a cell from the perspective of biochemistry. The course will focus on protein biochemistry, enzymatic activity and function, carbohydrate and lipid structure and function, and metabolism. Life is a chemical phenomenon but, for the most part, the chemistry of life is governed by the actions of proteins. Therefore, our focus will be on these proteins, what they do, and how they do it.

Prerequisites: BIOL-210, CHEM-302.

Credit, four hours.

**BIOL-451. SENIOR RESEARCH PROJECT I. CAPSTONE****1-3:0:1-3**

An opportunity to undertake or complete a mentored research project in Biology. A thesis or report is required. Required to complete a research project (also can use BIOL-301 or internship) as a Capstone project.

Prerequisites: Senior status in Biology, and consent of the Instructor.

Credit, one to three hours.

**BIOL-452. SENIOR RESEARCH PROJECT II. CAPSTONE****1-3:0:1-3**

An opportunity to undertake or complete a mentored research project in Biology. A thesis or report is required. Required to complete a research project (also can use BIOL-301 or internship) as a Capstone project.

Prerequisites: Senior status in Biology, and consent of the Instructor.

Credit, one to three hours.

**BIOL-471. NUCLEIC ACIDS BIOTECHNOLOGY****4:2:6**

A lab course that will utilize applications in recombinant DNA methodology. Some topics covered will include enzymology of DNA manipulation, construction and isolation of recombinants, plasmid and bacteriophage vectors, and structural analysis of cloned DNA.

Prerequisites: BIOL-310.

Credit, four hours.

**BIOL-472. PROTEIN BIOTECHNOLOGY****4:2:6**

A lab course that will focus on gene expression and protein isolation and function.

Prerequisites: BIOL-310.

Credit, four hours.

**BIOL-498. REVIEW OF BIOLOGICAL PRINCIPLES****1:1:0**

The course will allow students to review essential content and concepts prior to retaking the Biology Comprehensive Assessment. The course is required for all Biology majors who do not satisfactorily complete the assessment exam in their junior year. One (1) lecture hour each week.

Credit, one hour.

**BIOL-499. SENIOR SEMINAR: BIOLOGICAL PRESENTATION****1:1:0**

The required Capstone course for Biology majors; it cannot be waived or substituted. The third in a required series of biological skills seminars. The course is designed to provide the senior student with instruction and practice in the oral, poster, and written presentation of research data. Topics will include preparation of figures, slides, posters, and organization of the presentation. Students are required to provide their own data from independently conducted research either within the Biology Department (e.g., BIOL-301, BIOL-451) or external to DSU (e.g., internship). Meets one (1) hour each week.

Prerequisites: BIOL-299, BIOL-399, Senior status.

Credit, one hour.



## DEPARTMENT OF CHEMISTRY

**Chair:** Winstead

**Professors:** Goudy

**Associate Professors:** DiMaria, Hayward, Workie

**Assistant Professors:** Wakefield, Wang, Winstead

**Department Assistants:** Campbell, Hopkins

The Department of Chemistry strives to provide a sound foundation in chemistry for students wishing to concentrate in chemistry and/or chemical engineering; to prepare students for professional careers (i.e., Pharmacy and Environmental Chemistry) and for graduate study; to provide a proper sequence of courses for those students preparing to teach chemistry in secondary schools or preparing to enter medical, dental, or other health professional schools; and to meet the needs of students wishing to secure a knowledge of the fundamental principles of Chemistry.

Majors in Chemistry and Chemical Engineering are expected to affiliate with the Delaware State University Chapter of the American Chemical Society Student Affiliates during their freshman year and to maintain their affiliation as long as they are registered in the Department.

Students who select a major offered by the Department of Chemistry must complete the General Education Program as required of all students (See General Education Requirements). Specific courses required for the various curriculum options are indicated below.

### CURRICULUM OPTIONS

#### CHEMISTRY MAJOR (NON-TEACHING)

For students preparing for professional careers in chemistry and for graduate study, the Department offers a curriculum which meets the standards adopted by the American Chemical Society for undergraduate professional education in Chemistry. The requirements for a major in the program are forty-eight (48) hours distributed as follows: Chemistry 101-102, 301-302, 303-304, 305, 306, 308, 403 and 407, and six (6) hours of electives, three (3) hours in advanced chemistry, and three (3) hours in advanced mathematics or physics or six (6) hours in advanced chemistry. In addition, a Chemistry major may take \*French, Japanese, German, or Spanish 101-102, Mathematics 251-252, and Physics 201-202. Chemistry majors with biochemical interest are also required to take Biology 101-102.

#### CHEMISTRY MAJOR (TEACHING)

For students preparing to teach chemistry in the secondary school, the Department offers a curriculum in Chemistry Education which meets the standards adopted by the Delaware Department of Education for the state certification. The requirements for a Teaching major in Chemistry are thirty-two (32) hours distributed as follows: Chemistry 101-102, 301-302, 303-304, 306 or 308, and 403. In addition, a Chemistry Teaching major must take Biology 101, Education 204, 208, 210, 313, 318, 322, 309, and 412, \*French, German, Japanese, or Spanish 101-102, Geology 101, Mathematics 251-252, Natural Resources 205, Physics 201-202, and Psychology 201.

### **CHEMISTRY MAJOR (PRE-PROFESSIONAL)**

For students preparing for careers in pharmacy, environmental chemistry, medical, dental, or other health professional schools and who desire to concentrate in chemistry, the Department offers a Pre-Professional curriculum in Chemistry. The requirements for a Pre-Professional major in Chemistry are forty (40) hours distributed as follows: Chemistry 101-102, 301-302, 303-304, 305, 306, 308, and 403. In addition, a Pre-Professional major must take Biology 101-102, \*French, German, Japanese, or Spanish 101-102, Mathematics 251-252, and Physics 201-202.

### **CHEMISTRY MINOR**

A student who desires a minor in chemistry must complete at least eighteen (18) hours in chemistry distributed as follows: Chemistry 101-102, 301-302, and an advanced chemistry elective.

\*A Chemistry major who makes a score of 560 or higher on the College Board Achievement Test in a Foreign Language prescribed in the curriculum option, either prior to entering Delaware State University or during the freshman or sophomore year of residence at the University, will be considered to have satisfied the Foreign Language requirement for the Baccalaureate degree in Chemistry.

**B.S. DEGREE IN CHEMISTRY**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
CHEM-101	Gen & Elem Anal Chem I	4	CHEM-101	Gen & Elem Anal Chem II	4
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
xx-101	Foreign Language I	3	xx-102	Foreign Language II	3
MTSC-121	College Algebra (optional) or	3	MTSC-122	Trigonometry (optional) or	3
MTSC-251	Calculus I		MTSC-252	Calculus II	
SPSC-100	Fitness and Wellness	2	CHEM-192	University Seminar II	1
CHEM-191	University Seminar I	1			
	Total Credits	16		Total Credits	14
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
CHEM-301	Organic Chemistry I	4	CHEM-302	Organic Chemistry II	4
CHEM-305	Analytical Chemistry	4	ENGL-200	Speech	3
PHYS-201	Physics I	4	PHYS-202	Physics II	4
MTSC-251	Calculus I or	4	MTSC-252	Calculus II or	4
xx-xxx	Elective		xx-xxx	Elective	
	Total Credits	16		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
CHEM-303	*Physical Chemistry I	4	CHEM-304	*Physical Chemistry II	4
GLST-395	Global Societies	3	CHEM-306	Instrumental Methods of Anal	4
CHEM-403	Biochemistry	4	CHEM-308	Inorganic Chemistry	4
ENGL-201 or ENGL-205	World Lit I or Afr. Am Lit I	3	ENGL-202 or ENGL-206	World Lit II or Afr. Am Lit II	3
HIST-20x	American History	3			
	Total Credits	17		Total Credits	15
Senior Fall Semester			Senior Spring Semester		

Course	Course Name	Cr	Course	Course Name	Cr
CHEM-407	Seminar in Chemistry	1	xx-xxx	Art/Humanities	3
CHEM-xxx	Elective (Advanced Chemistry)	3	xx-xxx	Elective (Chem, Math or Physics	3
xx-xxx	Social Science	3	xx-xxx	Electives	6
CHEM-405	**Ind Study/ Research	3			
xx-xxx	Elective	6			
	Total Credits	16		Total Credits	12

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

Total Credits: 121
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**B.S. DEGREE IN CHEMISTRY EDUCATION**  
**Effective Fall 2009**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
CHEM-101	Gen & Elem Anal Chem I	4	CHEM-101	Gen & Elem Anal Chem II	4
xx-xxx	Elem French, Japan, or Span I	3	ENGL-102	English Composition II	3
CHEM-191	University Seminar	1	xx-xxx	Elem French, Japan, or Span II	3
ENGL-101	English Composition I	3	EDUC-204	Philo Founds Education	3
MVSC-100	Fitness and Wellness	2	CHEM-192	University Seminar II	1
BIOL-101	Gen Biology	4		Take the Praxis I Exam	
	Total Credits	17		Total Credits	14
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
CHEM-301	Organic Chemistry I	4	CHEM-302	Organic Chemistry II	4
MTSC-251	Calculus I	4	ENGL-200	Speech	3
PHYS-211	Fundamentals of Physics I	4	PHYS-212	Fundamentals of Physics II	4
PSYC-201	Intro to Gen Psych	3	MTSC-252	Calculus II	4
ENGL-205/6	African-American Literature I or II	3			
				Pass Praxis I Exam	
				Apply to teacher ed. Program	
	Total Credits	18		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
CHEM-303	*Physical Chemistry I	4	CHEM-304	*Physical Chemistry II	4
PSED-101	Geology	3	CHEM-306	Instrumental Methods of Anal or	
NTRS-200	Ecology	4	CHEM-303	Inorganic Chemistry	
EDUC-322	Teaching Reading in Sec Sch	3	EDUC-313	Intro to Except. Children	3
			EDUC-210	Mtds of Tchg Mid & HS Sci	3
			EDUC-344	Tech in Education	3
				Pass PRAXIS II	
	Total Credits	14		Total Credits	17
Senior Fall Semester			Senior Spring Semester		

Course	Course Name	Cr	Course	Course Name	Cr
EDUC-357	Eff Teach & Clssrm Mgt.	4	EDUC-400	Student Teaching**	12
EDUC-318/ GLST-395	Multicultural Education/Global Societies	3			
HIST-xxx	History	3			
EDUC2-416	Anal. Of Student Teaching	1			
CHEM-403	Biochemistry	4			
	Total Credits	15		Total Credits	12

\* **Writing Intensive**

\*\* **This is the Senior Capstone**

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 122

**B.S. DEGREE IN CHEMISTRY PRE-PROFESSIONAL**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
CHEM-101	Gen & Elem Anal Chem I	4	CHEM-101	Gen & Elem Anal Chem II	4
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
xx-101	Foreign Language I	3	xx-102	Foreign Language II	3
MTSC-121	College Algebra (optional) or	3	MTSC-122	Trigonometry (optional) or	3
MTSC-251	Calculus I		MTSC-252	Calculus II	
MVSC-100	Fitness and Wellness	2	CHEM-192	University Seminar II	1
CHEM-191	University Seminar I	1			
	Total Credits	16		Total Credits	14
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
CHEM-301	Organic Chemistry I	4	CHEM-302	Organic Chemistry II	4
CHEM-305	Analytical Chemistry	4	ENGL-200	Speech	3
PHYS-201	Physics I	4	PHYS-202	Physics II	4
MTSC-251	Calculus I or	4	MTSC-252	Calculus II or	4
xx-xxx	Elective		xx-xxx	Elective	
	Total Credits	16		Total Credits	15
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
CHEM-303	*Physical Chemistry I	4	CHEM-304	*Physical Chemistry II	4
GLST-395	Global Societies	3	CHEM-306	Instrumental Methods of Anal	4
BIOL-101	General Biology I	4	CHEM-308	Inorganic Chemistry	4
HIST-20x	American History	3	BIOL-102	General Biology II	4
xx-xxx	Elective	3			
	Total Credits	17		Total Credits	16
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
xx-xxx	Social Science	3	xx-xxx	Art/Humanities	3
ENGL-205 or ENGL-	World Lit I Afr. Am Lit I	3	ENGL-202 or ENGL-	World Lit II or Afr. Am. Lit II	3

205			206		
CHEM-405	**Ind Study/ Research	3	xx-xxx	Electives	6
CHEM-403	Biochemistry	6			
xx-xxx	Elective	3			
	Total Credits	16		Total Credits	12

**\*\* Senior Capstone**

**\*Writing Intensive Course(s)**

Total Credits: 122
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**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**



## **CHEMISTRY (CHEM) (24)**

### **CHEM-100. INTRODUCTORY CHEMISTRY**

**4:3:3**

A course covering the basic concepts of chemistry. Three (3) lectures and one (1) three-hour laboratory period per week.

Credit, four hours.

### **CHEM-101. GENERAL AND ELEMENTARY ANALYTICAL CHEMISTRY I**

**4:3:3**

A comprehensive study of the chemical and physical properties of matter including the fundamental principles of qualitative and quantitative analysis. Three (3) lectures and one (1) three-hour laboratory period per week.

Corequisites: MTSC-121, MTSC-122 or MTSC-251 or MTSC-131.

Credit, four hours.

### **CHEM-102. GENERAL AND ELEMENTARY ANALYTICAL CHEMISTRY II**

**4:3:3**

A comprehensive study of the chemical and physical properties of matter including the fundamental principles of qualitative and quantitative analysis. Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: CHEM-101.

Corequisites: MTSC-121, MTSC-122.

Credit, four hours.

### **CHEM-107. CHEMISTRY FOR THE HEALTH SCIENCES**

**4:3:3**

A unified study of the fundamentals of general chemistry and the elements of organic and biochemistry. (Not recommended for majors in the Biological Sciences, or for Pre-Medical students.) Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: High school Chemistry or its equivalent.

Corequisites: MTSC-101, MTSC-102 or MTSC-103 or MTSC-121 and MTSC-122.

Credit, four hours.

### **CHEM-191. UNIVERSITY SEMINAR I – CHEMISTRY**

**1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the Internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **CHEM-192. UNIVERSITY SEMINAR II – CHEMISTRY**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the Internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

### **CHEM-202. FORENSIC CHEMISTRY**

**4:3:3**

Theory and principle in the isolation and identification of drugs using chromatographic and spectroscopic methods. Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: CHEM-101, CHEM-102.

Credit, four hours.

**CHEM-203. WATER CHEMISTRY – BASIC PRINCIPLES****4:3:3**

Essentials of water chemistry with emphasis on the principle methods of testing water and wastewater. Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: CHEM-101, CHEM-102, MTSC-121, MTSC-122 or MTSC-105 and MTSC-106.

Credit, four hours.

**CHEM-205. ELEMENTARY ORGANIC CHEMISTRY****4:3:3**

A course covering nomenclature, properties and reactions of the simpler classes of organic compounds. (Not recommended for majors in the Biological Sciences or for Pre-Medical students.) Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: CHEM-101, CHEM-102.

Credit, four hours.

**CHEM-301. ORGANIC CHEMISTRY I****4:3:3**

Structure, synthesis, and reactions of the principle classes of organic compounds with stress on stereochemistry, reaction mechanisms, and spectroscopic properties. Laboratory practice in the separation, identification, and synthesis of organic compounds. Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: CHEM-101, CHEM-102.

Credit, four hours.

**CHEM-302. ORGANIC CHEMISTRY II****4:3:3**

Structure, synthesis, and reactions of the principle classes of organic compounds with stress on stereochemistry, reaction mechanisms, and spectroscopic properties. Laboratory practice in the separation, identification, and synthesis of organic compounds. Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: CHEM-101, CHEM-102, CHEM-301.

Credit, four hours.

**CHEM-303. PHYSICAL CHEMISTRY I****4:3:3**

A quantitative study of the fundamental physiochemical principles of matter as applied to gases, liquids, solids, and solutions, with illustrative laboratory experiments. Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: CHEM-301, CHEM-302, MTSC-251, MTSC-252, PHYS-201, PHYS-202.

Credit, four hours.

**CHEM-304. PHYSICAL CHEMISTRY II****4:3:3**

A quantitative study of the fundamental physiochemical principles of matter as applied to gases, liquids, solids, and solutions, with illustrative laboratory experiments. Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: CHEM-301, CHEM-302, MTSC-251, MTSC-252, PHYS-201, PHYS-202.

Credit, four hours.

**CHEM-305. ANALYTICAL CHEMISTRY****4:3:3**

Principles of gravimetric, volumetric, potentiometric, and spectrophotometric analysis. Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: Eight (8) credit hours of General Chemistry, MTSC-121, MTSC-122 or MTSC-105, MTSC-106.

Credit, four hours.

**CHEM-306. INSTRUMENTAL ANALYSIS****4:3:3**

Theoretical principles and chemical applications of instrumental methods of analysis. Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: CYHEM-301, CHEM-302, and CHEM-305, MTSC-251, MTSC-252, PHYS-201, PHYS-202.

Credit, four hours.

**CHEM-308. INORGANIC CHEMISTRY****4:3:3**

A study and characterization of the fundamental concepts in inorganic chemistry which includes atomic structure, periodicity, and the nature of chemical forces and structure. The chemistries of transition metals, S fillers and P fillers, and organic metallic compounds. Laboratory practice in synthesis of pure inorganic substances. Three (3) lectures and one (1) three-hour laboratory period per week.

Corequisites: CHEM-304.

Credit, four hours.

**CHEM-310. ENVIRONMENTAL CHEMISTRY****4:3:3**

The analyses of water, soil, plant, and animal tissues for various parameters including trace organics and metals using classical and instrumental methods of analysis.

Prerequisites: CHEM-302.

Credit, four hours.

**CHEM-401. ORGANIC QUALITATIVE ANALYSIS****3:2:3**

Spectroscopic and chemical methods of identification of organic compounds in the pure state and in mixtures. Two (2) lectures and one (1) three-hour laboratory period per week.

Prerequisites: CHEM-301, 24-302, 24-306.

Credit, three hours.

**CHEM-402. ADVANCED ORGANIC CHEMISTRY****3:3:0**

Advanced study of the structures of organic compounds, organic reaction, and their mechanisms. Synthesis of selected organic compounds using advanced preparative methods. Three (3) lectures and per week.

Prerequisites: CHEM-301, CHEM-302, CHEM-303, CHEM-304.

Credit, three hours.

**CHEM-403. BIOCHEMISTRY****4:3:3**

The structural and metabolic relationship of carbohydrates, lipids, amino acids, proteins, nucleic acids, enzymes, and coenzymes. Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: CHEM-301, CHEM-302, CHEM-303.

Credit, four hours.

**CHEM-404. ADVANCED PHYSICAL CHEMISTRY****3:3:0**

Advanced treatment of thermodynamics, the elements of quantum and statistical mechanics, chemical kinetics, and selected topics. Three (3) lectures per week.

Prerequisites: CHEM-303, CHEM-304.

Credit, three hours.

**CHEM-405. INDEPENDENT STUDY AND RESEARCH****3:0:9**

Independent investigation of a research problem under the supervision of a staff member. A research report and presentation is required. Three (3) three-hour laboratory periods per week.

Prerequisites: Senior status in Chemistry. The course may be repeated with the consent of the Department Chair.

Credit, three hours.

**CHEM-406. SELECTED TOPICS IN CHEMISTRY****3:3:0**

Topics of current interest in analytical, organic, inorganic, physical, or biochemistry.

Prerequisites: Senior status in Chemistry. The course may be repeated with the consent of the Department Chair.

Credit, three hours.

**CHEM-407. SEMINAR IN CHEMISTRY****1:1:0**

Reports, study, and discussion of current literature in the fields of chemistry. An oral presentation is required. One hour per week.

Credit, one hour.

**CHEM-409. WATER CHEMISTRY – ADVANCED TECHNIQUES****4:3:3**

Theory and application of modern chemical instrumentation to water analysis. Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: CHEM-203.

Credit, four hours.

**CHEM-460. CHEMICAL LITERATURE****1:1:0**

Use of the chemical library, chemical journals, reference works, other technical publications, assembling and data use, and computer-assisted literature searches. One lecture per week.

Credit, one hour.

**CHEM-462. CHEMICAL TOXICOLOGY****3:3:0**

A study of the adverse effects of chemical substances. Course includes the general principles of toxicology, the toxicology of systems, toxic agents, environmental toxicology, forensic toxicology, applications toxicology, and the effects of toxic substances on reproduction and the body.

Credit, three hours.

**CHEM-469. POLYMER CHEMISTRY****3:3:0**

An introduction to the chemistry of macromolecules including biological molecules, plastics, and other important classes of industrial polymers.

Prerequisites: CHEM-301, CHEM4-302.

Credit, three hours.

## DEPARTMENT OF COMPUTER AND INFORMATION SCIENCES

**Chair:** Rasamny

**Professors:** Pokrajac

**Associate Professors:** Kong, Lin, Milutinovic, Rasamny (Chair)

**Assistant Professors:** Holness, Smolinski

**Instructor:** Raval

**Network Administrator:** (Khan)

The general objectives of the Department of Computer and Information Sciences are to provide students with high quality instruction and research training within the rapidly evolving fields of computer science and information technology; provide opportunities for students to develop functional competence in Computer Science & Information Technology; provide students with an appreciation for the contributions of Computer Science and Technology to Science, Business, Economics, and the Social Sciences; cultivate student's abilities to formulate and solve problems and manage complexity. The Department strives to promote an environment that encourages innovation, creativity and leadership among faculty and students. The Department prepares students to pursue graduate study or careers in government and industry.

The Department aims to provide students with courses of studies directed toward an understanding of computational theory and its relation to other fields of study. This study includes an emphasis on precision of definition, reasoning to precise conclusions, and an analysis and solution of problems.

All incoming freshmen, interested in computer science, are classified as pre-CS majors and are not considered full fledged computer science majors until they have successfully completed the following requirements:

- Pre-CS majors must receive a C or better in Survey of Computing (CSCI-107), Elements of Computing (CSCI-261), and Discrete Math I and II (MTSC-213 and MTSC-214).

These requirements will be reviewed by the student's advisor and submitted to the Chair for approval within a week after the pre-registration period.

Students interested in the Information Technology program will be required to complete 121 hours of study, twelve hours of which are specialization electives that can lead to certification in an area of IT such as system administration or network engineering. Students are expected to enroll and take a certification exam after the completion of each specialization elective.

Students who select a major in the Department must complete the general education program required of all students (Please see curricula for further details). Students may not enroll in a computer science or information technology course without first obtaining a "C" or better in the course's prerequisites.

### CURRICULUM OPTIONS FOR MAJORS

**COMPUTER SCIENCE:** The requirements for a major in Computer Science are: Computer Science 107, 220, 261, 262, 263, 310, 350, 355, 360, 370, 461, 490 and 495; Mathematics 213, 251, 252, 313 and 341; a minimum of six (6) hours from Math, CS, IT or Natural Sciences; a minimum of six (6) hours from MTSC, IT or CS courses numbered above 300. (See curriculum for further details).

**ELECTIVES:** 240, 275, 301, 340, 345, 351, 371, 415, 420, 425, 430, 431, 435, 437, 440, 450, 455, 465, 470 and 497.

**INFORMATION TECHNOLOGY:** The requirements for a major in Information Technology are: Computer Science 261, 262, 263. Students must also take Information Technology: 107, 280, 310, 350, 355, 370, 400, 410, 420, 425, and 496; Mathematics 213, 241, and 251; a minimum of six (6) hours restrictive electives; twelve (12) hours of specialization electives to be approved by advisor or the Department.

**ELECTIVES:** 270, 300, 356, 357, 358, 359, 360, 362, 371, 385, 390, 410, 440, 450, and 455.

### **OPTIONS FOR MINORS**

To provide an opportunity for students to obtain a minor concentration in Computer Science, and Information Technology, the Department of Computer and Information Sciences offers the following options:

**MINOR IN COMPUTER SCIENCE:** Twenty (20) hours distributed as follows:

Course No.	Title	Credits
<b>CSCI-107</b>	<b>Survey of Computing</b>	<b>4</b>
<b>CSCI-261</b>	<b>Elements of Computer Programming</b>	<b>4</b>
<b>CSCI-262</b>	<b>Data Structures and Algorithms I</b>	<b>3</b>
<b>CSCI-263</b>	<b>Data Structures and Algorithms II</b>	<b>3</b>
<b>CSCI-370</b>	<b>Database Systems</b>	<b>3</b>
<b>CSCI-360</b>	<b>Data Networks</b>	<b>3</b>

**MINOR IN INFORMATION TECHNOLOGY:** Twenty (20) hours distributed as follows:

Course No.	Title	Credits
<b>INFO-107</b>	<b>Survey of IT</b>	<b>4</b>
<b>CSCI-261</b>	<b>Elements of Computer Programming</b>	<b>4</b>
<b>CSCI-262</b>	<b>Data Structures and Algorithms I</b>	<b>3</b>
<b>INFO-370</b>	<b>Database Management Systems</b>	<b>3</b>
<b>INFO-XXX</b>	<b>IT Electives at 300 level or above</b>	<b>6</b>

## CURRICULUM IN COMPUTER SCIENCE

### First Year

First Semester			Second Semester		
ENGL-101©	English Composition I	3	ENGL-102 ©	English Composition II	3
MVSC-101 ©	Fitness and Wellness	2	CSCI-192 ©	University Seminar II	1
MTSC-213©	Discrete Mathematics I	3	CSCI-261 ©	Elements of computer Prog.	4
CSCI-107©	Survey of Computing	4	ENGR-211 ©	Intro. to Sequential Circuits	2
CSCI-191©	University Seminar I	1	CSCI-220 ©	Discrete Structures	3
ENGR-210©	Intro. To Combinational Logic	2			<b>13</b>
		<b>15</b>			

**NOTE: Students are considered pre-CS majors and must apply to become CS majors. Requirements to become a CS major are a C or better in CSCI-107, CSCI-261, MTSC-213, and CSCI-220 and a 3.0 GPA at time of the application.**

### Second Year

ENGL-xxx	Literature I	3	ENGL-xxx	Literature II	3
MTSC-251 ©	Calculus I	4	MTSC-252 ©	Calculus II	4
CSCI-262 ©	Data Structures & Algorithms I	3	HIST-xxx	History (201 – 204)	3
ENGR-220 ©	Microprocessor Based Sys. I	2	CSCI-263 ©	Data Structures & Algorithms II	3
xx-xxx	Foreign Language I <sup>¥</sup>	3	xx-xxx	Foreign Language II <sup>¥</sup>	3
		<b>15</b>			<b>16</b>

### Third Year

ENGL-200 ©	Speech	3	MTSC-313 ©	Linear Algebra	3
CSCI-310 ©	Analysis of Algorithms	3	MTSC-341 ©	Probability	3
CSCI-350 ©	Theory of Operating Systems	3	CSCI-355 ©	Principles of Programming Lang.	3
CSCI-370 ©	Database Systems	3	CSCI-360 ©	Data Networks	3
NTRS-xxx ©	Natural Science I*	4	NTRS-xxx ©	Natural Science II*	4
		<b>16</b>			<b>16</b>

### Fourth Year

PHIL-xxx	Moral Issues/Philosophy/Ethics	3	GLST-395 ©	Global Societies	3
CSCI-490 ©	Software Engineering Design	3	CSCI-461 ©	Theory of Computing	3
CSE ©	Computer Science Elective <sup>+</sup>	3	CSCI-495 ©	Computer Science Project <sup>^</sup>	3
ECON-201	Macroeconomics	3	CSE ©	Computer Science Elective <sup>+</sup>	3
RSE ©	Restricted Elective <sup>~</sup>	3	RSE ©	Restricted Elective <sup>~</sup>	3
		<b>15</b>			<b>15</b>

**TOTAL CREDIT HOURS: 121**

<sup>~</sup> Courses must be from Mathematics, Computer Science, Information Technology, or Natural Sciences.

<sup>+</sup> Courses must be from Computer Science, Information Technology, or Mathematics above 300 level.

<sup>^</sup> Senior Capstone course.

\* Courses must be sequence lab courses in: Physics 201-202, or Chemistry/Biology 101-102.

<sup>¥</sup> Same Foreign Language Sequence is required.

© A grade of „C“ or better is required to pass.

# CURRICULUM IN INFORMATION TECHNOLOGY

## First Year

First Semester			Second Semester		
ENGL-101©	English Composition I	3	ENGL-102 ©	English Composition II	3
PHIL-xxx	Moral Issues/Philosophy/Ethics	3	CSCI-192 ©	University Seminar II	1
MVSC-101 ©	Fitness and Wellness	2	CSCI-261 ©	Elements of computer Prog.	4
INFO-107©	Survey of IT	4	HIST-xxx	History (201 – 204)	3
MTSC-213©	Discrete Mathematics I	3	MTSC-251 ©	Calculus I	4
CSCI-191©	University Seminar I	1			<b>15</b>
		<b>16</b>			

## Second Year

ENGL-xxx	Literature I	3	ENGL-xxx	Literature II	3
MTSC-241 ©	Statistics	3	INFO-280 ©	Computer Organization	3
CSCI-262 ©	Data Structures & Algorithms I	3	CSCI-263 ©	Data Structures & Algorithms II	3
NTRS-xxx ©	Natural Science I*	4	NTRS-xxx ©	Natural Science II*	4
xx-xxx	Foreign Language I ¥	3	xx-xxx	Foreign Language II ¥	3
		<b>16</b>			<b>16</b>

## Third Year

ENGL-200 ©	Speech	3	GLBL-395 ©	Global Societies	3
INFO-300 ©	Organizational Theory	3	INFO-310 ©	Scripting Languages	4
INFO-350 ©	Operating Systems	3	INFO-355 ©	Communication and Networking	3
INFO-370 ©	Database Management Systems	3	ECON-201	Macroeconomics	3
SPE ©	Specialization Elective <sup>+</sup>	3	SPE ©	Specialization Elective <sup>+</sup>	3
		<b>15</b>			<b>16</b>

## Fourth Year

INFO-420 ©	Sys. Development Technique	3	RSE ©	Restricted Elective~	3
INFO-425 ©	Perf. Analysis & Design in IT	3	INFO-400 ©	Data Mining & Warehousing	3
RSE ©	Restricted Elective~	3	INFO-496 ©	Project Management^	3
RSE ©	Restricted Elective~	3	SPE ©	Specialization Elective <sup>+</sup>	3
SPE ©	Specialization Elective <sup>+</sup>	3			<b>12</b>
		<b>15</b>			

**TOTAL CREDIT HOURS: 121**

~ Courses must be from Mathematics, Computer Science, Information Technology.

+ Courses must be from Computer Science or Information Technology and approved by advisor as a specialization.

^ Senior Capstone course.

\* Courses must be sequence lab courses in: Physics 201-202, or Chemistry/Biology 101-102.

¥ Same Foreign Language Sequence is required.

© A grade of „C“ or better is required to pass.



## **COMPUTER SCIENCE (CSCI) (35)**

### **CSCI-107. SURVEY OF COMPUTING.**

**4:4:0**

This course provides students with information about the field of computer science and its pervasiveness and impact on society. The course provides an overview of computing in everyday life and business and discusses the job prospects in the field. Students will learn the various aspects of problem solving using computers and how computer programming is a large and important part of this problem solving process. A paradigm of a dumb robot will be used to introduce the idea behind programming the dumb computer. The focus will be on a step-by-step problem solving approach with minimal emphasis on syntax. Prerequisite: None. Credits, four hours.

### **CSCI-220. DISCRETE STRUCTURES.**

**3:3:0**

This course is designed to expose students in computer science logic and algebra of enumeration. It provides students with an introduction to mathematical tools, techniques, and structures that will be essential to gaining proficiency in advanced computer science concepts. Topics include Sequences and Mathematical Induction, recursion, relations, relational algebra, graphs and trees. Prerequisite: MTSC-213, Credits, three hours.

### **CSCI-40. APPLICATIONS OF FORTRAN.**

**3:3:0**

This course is designed to provide an overview of Fortran programming language. The course trains students in handling practical applications, arising in science and engineering. Topics include Input/Output, programming with functions and subroutines, one and multi-dimensional arrays, file processing, derived data types. Prerequisite: None. Credits, three hours.

### **CSCI-275. STRUCTURED PROGRAMMING FOR SCIENTISTS AND ENGINEERS.**

**3:3:0**

The course introduces important concepts and principles in programming and trains students to design applications that implement solutions to problems arising in science and engineering. The course introduces students to fundamental software development using a programming language, such as C or C++. Prerequisite: None. Credits, three hours.

### **CSCI-261. ELEMENTS OF COMPUTER PROGRAMMING.**

**4:4:0**

This course presents fundamental software development and computational methods. It explores the use of a programming language as a tool to implement algorithms that solve computing problems. The course introduces important concepts and principles in programming and lays the foundations for achieving advanced programming skills. The course covers various concepts in programming including variables, decision statements, loops, function, and arrays. Prerequisite: CSCI-107 or INFO-107, Credits, four hours.

### **CSCI-262. DATA STRUCTURES AND ALGORITHMS I.**

**3:3:0**

The study of computer science includes the study of how information is organized in a computer, how it can be manipulated, and how it can be utilized. The efficiency of programming and data processing is directly linked to the structure of the data being processed and algorithms used. This course presents fundamental computing algorithms and their associated data structures and abstraction. It combines the concepts of information organization, information manipulation and algorithms. Prerequisite: CSCI-261. Credits, three hours.

### **CSCI-263. DATA STRUCTURES & ALGORITHMS II**

**3:3:0**

The study of computer science includes the study of how information is organized in a computer, how it can be manipulated, and how it can be utilized. This continues with introducing more advanced computing algorithms and data structures. It also introduces the mathematical framework for the analysis of algorithm efficiency. Prerequisite: CSCI-262. Credits, three hours.

### **CSCI-301. INTRODUCTION TO BIOINFORMATICS.**

**3:3:0**

Theoretical and practical concepts of bioinformatics, with emphasis on algorithms and their implementation in bioinformatics software. Prerequisite: Consent of Instructor. Credits, three hours.

### **CSCI-310. ANALYSIS OF ALGORITHMS.**

**3:3:0**

Analysis of data structures and algorithms; computational complexity and design of efficient data-handling procedures. Prerequisite: CSCI-263, MTSC-213. Three credits.

**CSCI-320. FILE STRUCTURES.****3:3:0**

Logical and physical organizations of large sets of related data in files for performance. Topics include secondary storage and system software, managing files of records, indexing and multi-level indexing using binary tree structures, B-trees and their derivatives, hashing and extendible hashing, and sorting. Prerequisite: CSCI-263. Credits, three hours.

**CSCI-340. OBJECT ORIENTED DESIGN.****3:3:0**

This course introduces the philosophy and methodology of object-oriented software design and the techniques of object-oriented programming. Discusses the design and implementation of individual classes and the trade offs in designing collections of classes. The course introduces class libraries and application frameworks and examines various design patterns. Comparison of object-oriented design to other software design paradigms is addressed in the course. Prerequisite: CSCI-263. Credits, three hours.

**CSCI-345. COMPUTER GRAPHICS.****3:3:0**

This course introduces programming concepts in rendering of graphics primitives, shading, lighting, geometric transformations, clipping, depth, ray tracing, texture mapping and antialiasing, interaction, perspective, and stereo viewing. Prerequisite: CSCI-263, MTSC-313. Credits, three hours.

**CSCI-350. THEORY OF OPERATING SYSTEMS.****3:3:0**

Principles underlying the design and implementation of operating systems. Topics presented include an in-depth treatment of process, storage, and processor management techniques. Students will be introduced to analytic modeling and performance evaluation of operating systems. Prerequisite CSCI-263, INFO-280 or ENGR-220. Credits, three hours.

**CSCI-351. SYSTEMS PROGRAMMING.****3:3:0**

This course provides students with fundamental skills necessary to develop system-based applications in a particular environment. Topics include development tools, creating and using libraries, process models, I/O handling, signal processing, and job control. Prerequisite: CSCI-350 or INFO-350. Credits, three hours.

**CSCI-355. PRINCIPLES OF PROGRAMMING LANGUAGES.****3:3:0**

This course is a formal comparative study of programming languages, concentrating on syntactic and semantic issues in the design and implementation of a programming language. Topics include data structures, operations, processors, data control, storage management in alternative programming languages, and formal proof of program correctness. Prerequisite: CSCI-263. Credits, three hours.

**CSCI-360. DATA NETWORKS.****3:3:0**

This course covers conceptual, logical and physical concepts of computer networks. Topics include application, transport, network and data link layers and basics of multimedia and security. Prerequisite: CSCI-262. Credits, three hours.

**CSCI-370. DATABASE SYSTEMS.****3:3:0**

This course introduces the conceptual, logical and physical organizations of large sets of related data, to database descriptions, data models, data definitions and manipulation languages, query languages, relational algebra and database application-oriented projects. Prerequisite: Consent of Advisor, Credit, three hours.

**CSCI-371. DATABASE SYSTEMS II.****3:3:0**

This course is an advanced study of the internals of a database management system, non-relational data models and database frontiers. Topics include Logic design of databases, Internals of database systems, Data models and architectures of database systems, multimedia databases. Prerequisite: CSCI-370 or INFO-370. Credits, three hours.

**CSCI-415. PARALLEL PROCESSING.****3:3:0**

This course addresses design and applications of interacting processors. Concurrency and synchronization; architectural support; programming language constructs for parallel computing; parallel algorithms and complexity. Prerequisite: CSCI-263, INFO-355 or CSCI-360, MTSC-313. Credits, three hours.

**CSCI-420. SCIENTIFIC COMPUTING.****3:3:0**

This course exposes student to various aspects of scientific computing. Topics include numerical techniques in solving linear, nonlinear and differential equations, symbolic computing, curve fitting and presentation of experimental results. Prerequisite: CSCI-263, MTSC-313, MTSC-341. Credits, three hours.

**CSCI-425. SIMULATION.****3:3:0**

This course introduces basic concepts in queuing systems and modeling. The course introduces a simulation language and utilizes elements of probability distributions. Applications of simulation in real life problems such as banking, the physical and life sciences, multi-server queuing systems, risk analysis, and production planning. Prerequisite: CSCI-263, MTSC-341. Credits, three hours.

**CSCI-430. ARTIFICIAL INTELLIGENCE.****3:3:0**

Introduce students to the field of artificial intelligence. Topics include state spaces, production systems, search, knowledge representation, rule-based systems, statistical reasoning and learning. Prerequisite: CSCI-263, CSCI-355. Credits, three hours.

**CSCI-431. EXPERT SYSTEMS.****3:3:0**

Introduce students to structure and concepts of expert systems, knowledge representation and knowledge engineering. Topics include knowledge representation of expert systems, rule-based systems, predicate logic, reasoning under uncertainty, case study of an expert system, expert systems tools. Prerequisite: CSCI-430. Credits, three hours.

**CSCI-435. MACHINE LEARNING.****3:3:0**

Expose students to theoretical and practical aspects of machine learning. Topics include classification techniques, unsupervised learning, computational learning theory, ensemble methods, and coverage of machine learning software. Prerequisite: CSCI-430. Credits, three hours.

**CSCI-437. GENETIC ALGORITHMS.****3:3:0**

Expose students in emerging field of genetic algorithms and genetic programming. Topics include simple genetic algorithms, theory of genetic algorithms (schema theory, effects of selection, crossover, and mutation operators, etc.). Prerequisite: CSCI-430, MTSC-341. Credits, three hours.

**CSCI-440. DATA MINING.****3:3:0**

The course is designed to introduce students to various aspects of data mining as novel and emerging technology, with special emphasis on various potential applications. Topics include classification algorithms, regression techniques, clustering, association rules, and other advanced topics. Prerequisite: CSCI-263, MTSC-313. Credits, three hours.

**CSCI-450. TECHNIQUES IN OPTIMIZATION.****3:3:0**

This course will expose students in computer science to linear programming, non-linear programming, different optimization techniques and selected applications including software development. Topics include allocation, blending, operations planning, shift scheduling, numerical search and simplex method, duality and sensitivity, unconstrained nonlinear search and genetic algorithms in search. Prerequisite: MTSC-252, MTSC-313. Credits, three hours.

**CSCI-455. GRAPH THEORY.****3:3:0**

Graph theory algorithms and applications to the areas of computer science. Prerequisite: CSCI-220 or MTSC-214. Credits, three hours.

**CSCI-461. THEORY OF COMPUTING.****3:3:0**

This course is an introduction to the theoretical aspects of computing. This course presents elements and applications of algebraic group structures, coding theory, finite automata, formal linguistic, machine design and construction, computability, and computational complexity. Prerequisites: CSCI-220 or MTSC-214 and senior standing. Credit, three hours.

**CSCI-465. COMPILER CONSTRUCTION.****3:3:0**

Principles and practices for design and implementation of compilers and interpreters. Topics: lexical analysis, parsing theory (LL, LR, and LALR parsing), symbol tables, type systems, scoping, semantic analysis, intermediate representations, runtime environments, and code generation. Prerequisite: CSCI-355. Credits, three hours.

**CSCI-470. INTRODUCTION TO GAME PROGRAMMING.****3:3:0**

This course provides practical hands-on approach to game programming. It is intended to be a first course introduction for students who may be interested in finding out about the gaming industry and gain an understanding of the complexities and the immense tasks required to develop an electronic game. Topics such as 2D and 3D game engines, sprite animation, tile-based game design, collision detection, sound; music and more will be utilized to create a game prototype. Prerequisite: CSCI-263, MTSC-251. Credits, three hours.

**CSCI-490. SOFTWARE ENGINEERING DESIGN.****3:3:0**

This course presents particular methods for the systematic development of large software systems. Topics include requirements analysis, definition, specification including formal methods, prototyping, and design including object and function oriented design. Prerequisite: CSCI-263. Credits, three hours.

**CSCI-495. COMPUTER SCIENCE PROJECT.****3:3:0**

(This is a senior capstone course.)

Research papers and reports will be selected for review and presentation. All students in this course will participate in a group project. The subject area is at the discretion of the instructor. Both formal and informal teaching methods will be used. Guest speakers may be invited. Prerequisite: Consent of the instructor. Credit, three hours.

**CSCI-497. TOPICS IN COMPUTER SCIENCE.****3:3:0**

This course will introduce elements, techniques, and principles governing an innovative computer science area such as symbolic computation and advanced artificial intelligence. Prerequisite: Consent of the instructor. Credit, three hours.

**INFORMATION TECHNOLOGY (INFO) (20)****INFO-101. APPLYING COMPUTERS.****3:3:0**

This course provides computer literacy and productivity training. The course will provide a familiarization with various operating systems and file management capabilities. It will also show how to leverage open source software to increase work efficiency. The course will cover creation and querying of simple database tables and productivity software that access these tables. Network security issues related to legal, privacy and ethical issues in computer security will be discussed. Searching and evaluating information found on the Internet will be covered. Prerequisite: None. Credits, three hours.

**INFO-107. SURVEY OF INFORMATION TECHNOLOGY.****4:4:0**

This course provides computer literacy training, through a discussion of the usefulness and limitations of hardware and software. The course should provide an overview on the computer impact on society and role of computers in everyday life and business. Students will learn the various aspects of problem solving using computers and how computer programming is a large and important part of this problem solving process. A paradigm of a dumb robot will be used to introduce the idea behind programming the dumb computer. Prerequisite: None. Credits, four hours.

**INFO-270. VISUAL BASIC.****3:3:0**

The commands, methods, properties, objects statements, events and functions in Visual Basic. Applications in business. Prerequisite: CSCI-261. Credits, three hours.

**INFO-280. COMPUTER ORGANIZATION.****3:3:0**

This course introduces analysis and synthesis of combinational and sequential circuits in Computer systems organization. The course also presents processor and control logic design concepts as abstractions of computer architecture. Included is an introduction to an assembly programming language. Prerequisite: CSCI-261. Credits, three hours.

**INFO-300. ORGANIZATION THEORY.****3:3:0**

This course provides an understanding of organizational concepts, structures, issues, and models. The course introduces the contextual dimensions, such as goals, environment, technology, size and life cycle, required to make judgments about organizational structures. How organizational processes such as culture, information processing for decision-making and politics affects the organization will be discussed. Prerequisite: None. Credits, three hours.

**INFO-310. SCRIPTING LANGUAGES.****4:4:0**

This course introduces students to a class of programming languages and tools known as scripting languages. Such languages provide students with a set of tools that increase productivity and reduce errors. Topics include: writing scripts to control and connect other programs, strengths and weaknesses of interpreted languages, extending scripting languages to include new functionality, embedding functions of a scripting language in other tools, syntax and usage of regular expressions, and the role of open-source software. Programming projects in multiple languages will be required. Prerequisite: CSCI-262. Credits, four hours.

**INFO-350. OPERATING SYSTEMS.****3:3:0**

Principles underlying the design and implementation of operating systems. Treatment of process, storage, and processor management techniques. Analytic modeling and performance evaluation of operating systems. Prerequisite: CSCI-263, INFO-280 or ENGR-220. Credits, three hours.

**INFO-355. COMMUNICATION AND NETWORKING.****3:3:0**

This course provides students with the conceptual, logical and physical concepts of computer networks including application, transport, network and data link layers and basics of multimedia and security. Prerequisite: CSCI-263. Credits, three hours.

**INFO-360. WEB DESIGN AND IMPLEMENTATION.****3:3:0**

This course provides an overview of web design concepts, including usability, accessibility, information design, and graphic design in the context of the web will be covered. Introduction to web site technologies, including cascading style sheets, DHTML, and computational tools for creating and working with interactive information resources will also be explored. Prerequisite: Consent of Instructor. Credits, three hours.

**INFO-356. COMPUTER NETWORKING I****3:3:0**

This course introduces students to the networking field. This course will focus on networking terminology and protocols, Local Area Networks (LANs), Wide Area Networks (WANs), Open System Interconnect (OSI) models, cabling, cabling tools, routers, router programming, Ethernet, Internet Protocol (IP), addressing and network standards. Prerequisite: None. Credits, three hours.

**INFO-357. COMPUTER NETWORKING II****3:3:0**

This course focuses on initial router configuration, Cisco IOS Software management, routing protocol configuration, TCP/IP and access control lists. Students develop skills on how to configure a router, manage Cisco IOS Software, configure routing protocols, and create access lists to control access to the router. Prerequisite: INFO-356. Credits, three hours.

**INFO-358. COMPUTER NETWORKING III****3:3:0**

This course focuses on advanced IP addressing techniques (Variable Length Subnet Masking [VLSM]), intermediate routing protocols (RIP v2, single-area OSPF, EIGRP), command-line interface configuration of switches, Ethernet switching, Virtual LANs (VLANs), Spanning Tree Protocol and VLAN Trunking Protocol. Prerequisite: INFO-357. Credits, three hours.

**INFO-359. COMPUTER NETWORKING IV****3:3:0**

This course focuses on advanced IP addressing techniques (Network Address Translation [NAT], Port Address Translation [PAT], and DHCP), WAN technology and terminology, PPP, ISDN, DDR, Frame Relay, network management, and introduction to optical networking. Prerequisite: INFO-358. Credits, three hours.

**INFO-362. BUILDING WEB APPLICATIONS.****3:3:0**

This course provides an introduction to the architecture and programming of web applications using Java technologies. In particular, the course will cover setting up a web server, program for web servers, design and implementation of multi-tier applications along with database access for information persistence. Prerequisite: INFO-360. Credits, three hours.

**INFO-370. DATABASE MANAGEMENT SYSTEMS.****3:3:0**

This course introduces the conceptual, logical and physical organizations of large set of related data, to database descriptions, data models, data definition and manipulation languages, query languages, relational algebra and database application-oriented projects.

Prerequisite: None. Credits, three hours.

**INFO-371. ADVANCED DATABASE SYSTEMS.****3:3:0**

Advanced study of the internals of a database management system, non-relational data models and database frontiers. Topics include Logic design of databases, Internals of database systems, Data models and architectures of database systems, multimedia databases. Prerequisite: INFO-370 or CSCI-370. Credits, three hours.

**INFO-385. NETWORK SECURITY.****3:3:0**

This course introduces fundamental techniques and principles for modeling and analyzing Security. The course covers encryption and security in programs as well as managing and administering security. It discusses security policies and their role in computing. The course also covers the legal, ethical, and privacy issues related to computer security. Prerequisite: INFO-355 or CSCI-360 or INFO-350 or CSCI-350. Credits, three hours.

**INFO-390. MULTIMEDIA SYSTEMS.****3:3:0**

This course will introduce students to the creation, storage, retrieval and transmission of multimedia content. Most current communication techniques are a single medium. Multimedia technologies, through the use of more than one media, allow more natural communication. Though this course will be technical, it is expected that non-computer science majors such as mass communications, criminal justice and education will also benefit from this course. Prerequisite: CSCI-261 or Permission of Instructor. Credits, three hours.

**INFO-400. DATA MINING AND WAREHOUSING.****3:3:0**

This course provides a student introduction to data mining and warehousing techniques. Special emphasis is put on integration of database technology with algorithms for efficient and non-trivial querying. Prerequisite: INFO-370 or CSCI-370. Credits, three hours.

**INFO-410. DESIGN AND PRINCIPLES OF HUMAN-COMPUTER INTERACTION.****3:3:0**

This course provides an introduction to the principles of designing high-quality user interfaces for interactive systems. Students will apply HCI principles and professional practices in analyzing collaborative software, multimedia, and ubiquitous computing. Students will participate in designing and implementing aspects of interfaces for a collaborative software. Prerequisite: INFO-370 or CSCI-370. Credits, three hours.

**INFO-420. SYSTEMS DEVELOPMENT TECHNIQUES.****3:3:0**

This course provides the concepts, skills, methodologies, techniques, and tools of systems development and design. It emphasizes project management and formal analysis, design, implementation, and evaluation techniques. Use of various software engineering analysis and design tools and techniques are covered, including information gathering for defining system requirements, Unified Modeling Language (UML), data flow diagrams, data dictionaries, and prototyping. The course will also present current topics, such as extreme programming, rapid application development (RAD), and the capability maturity model (CMM). Prerequisite: CSCI-263. Credits, three hours.

**INFO-425. PERFORMANCE ANALYSIS IN IT.****3:3:0**

This course provides an introduction in techniques used to analyze and understand the performance of computer systems. The emphasis is on practical methods of measurement, simulation, and analytical modeling. Prerequisite: CSCI-263, MTSC-241 or MTSC-341. Credits, three hours.

**INFO-440. WIRELESS AND MOBILE NETWORKS.****3:3:0**

The benefit of mobility due to wireless systems and devices is well organized. However, there are several challenges in deploying effective mobile networks and associated technologies to deal with these challenges. This course will provide an overview of such technologies. Prerequisite: INFO-355 or CSCI-360. Credits, three hours.

**INFO-450. CLIENT SERVER COMPUTING.****3:3:0**

This course provides coverage of client/server architecture and programming techniques. The evolution of the computing environment, standards and open systems, client and server platform specialization, client-server communication in local and wide area networks and major communication protocols are used as a foundation. Prerequisite: INFO-355 or CSCI-360. Credits, three hours.

**INFO-455. DISTRIBUTED SYSTEMS.****3:3:0**

The course provides an introductory background in distributed computing and its use in client/server and real-world computing applications. Concepts will include the design of distributed systems (two, three and n-tier architectures), inter-process communication (asynchronous vs. synchronous, concurrent vs. parallel, and sockets), principles of object-oriented middleware, security, and performance. Prerequisite: INFO-350 or CSCI-350, INFO-355 or CSCI-360. Credits, three hours.

**INFO-495. PROJECT MANAGEMENT.****3:3:0**

Project planning and selection of appropriate process model; project scheduling and milestone. Project organization, management, principles, concepts and issues. Work breakdown structures and scheduling. Project staffing consideration. Project control. Managing multiple projects. Systems documentation and metrics. User documentation. Configuration management. System development quality assurance. . Prerequisite: INFO-420 or CSCI-490. Credits, three hours.

## **DEPARTMENT OF MATHEMATICAL SCIENCES**

**Chair:** Umoh

**Professors:** Liu, Lott, Nandakumar, Shahin, Shi, Umoh

**Associate Professors:** Biswas, Gibson, McNair

**Assistant Professors:** Edwards-Omolewa, D. B. Johnson, D.Y. Johnson, Liu, Suarez, Sun

The objectives of the Department of Mathematical Sciences are to provide opportunities for students to develop functional competence in mathematics; an appreciation for the contributions of mathematics to science, engineering, business, economics, and the social sciences; and the power of critical thinking. The Department strives to prepare students to pursue graduate study and careers in teaching, government, and industry.

The Department aims to provide the student with a course of study directed toward an understanding of mathematical theory and its relation to other fields of study. The study includes an emphasis on precision of definition, reasoning to precise conclusions, and an analysis and solution of problems using mathematical principles.

Students who select a major in the Department must complete the General Education Program which is required of all students. Specific courses required for the various curriculum options are indicated below.

### **CURRICULUM OPTIONS FOR MAJORS**

#### **MATHEMATICS**

The requirements for a major in Mathematics are: Mathematics 191,192, 213, 214, 251, 252, 253, 313, 341, 351, 411, 451, and 498, one (1) of 412, 452, Physics 201 and 202, and a minimum of six (6) hours selected from Mathematics courses numbered 300 or higher, excluding 403. With consent of the Department, three (3) hours may be submitted from Physics 311-312, and 404.

#### **MATHEMATICS WITH COMPUTER SCIENCE**

The requirements for a major in Mathematics with Computer Science are: Mathematics 191,192, 213, 214, 251, 252, 253, 313, 341, 351, 431, and 498, Physics 201, 202, Computer Science 240, 261, 262, 360, 461, and 495, and a minimum of twelve (12) hours selected from Mathematics courses numbered 300 or higher, excluding 403.

#### **MATHEMATICS EDUCATION**

The requirements for a teaching major in Mathematics are: Mathematics 191,192, 203, 213, 241, 251, 252, 253, 313, 341, 403, 411, and 491, Education 204, 313, 318, 357, and 412, Physics 201 and 202, Psychology 201, and Computer Science 261. Students must take and pass PRAXIS I and apply for admission to the TPE prior to the start of their junior year. Students must pass PRAXIS II prior to student teaching.

#### **OPTION FOR MINORS**

To provide an opportunity for students to obtain a minor concentration in Mathematical Sciences, the Department of Mathematics offers the following option:

#### **MINOR IN MATHEMATICS**

Twenty-one (21) hours distributed as follows: Mathematics 251, 252, 253, and nine (9) additional hours selected from Mathematics courses at the 300 level or higher, excluding 403.



**B.S. DEGREE IN MATHEMATICS**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-191	University Seminar I	1	MTSC-192	University Seminar II	1
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MTSC-213	Discrete Math I	3	MTSC-251	Calculus I	4
xx-xxx	Foreign Language I	3	MTSC-214	Discrete Math II	3
HIST-201/204	American History	3	xx-xxx	Foreign Language II	3
MVSC-100	Fitness and Wellness	2	xx-xxx	Arts & Humanities	3
	Total Credits	15		Total Credits	17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-252	Calculus II►	4	MTSC-253	Calculus III	4
PHYS-201	General Physics I	4	PHYS-202	General Physics II	4
ENGL-201 ENGL-205	World Literature I or African - Amer. Literature	3	ENGL-202 ENGL-206	World Literature II or African - Amer. Literature	3
CSCI-xxx	Computer Elective^	3	MTSC-313	Linear Algebra	3
xx-xxx	Free Elective	3	ENGL-200	Speech	3
	Total Credits	17		Total Credits	17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-351	Differential Equations	3	MTSC-341	Probability	3
MTSC-411	Algebraic Structures I	3	MTSC-xxx	Mathematics Elective**	6
xx-xxx	Social Science Elective	3	xx-xxx	Free Elective	6
GLOB-395	Global Societies	3			
xx-xxx	Arts & Humanities	3			
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-498	Topics in Mathematics*	3	MTSC-xxx	Math Elective ** (MTSC-412 or 452)	3
xx-xxx	Free Elective	9	xx-xxx	Free Elective	9
MTSC-	Advanced Calculus I	3			

451					
	Total Credits	15		Total Credits	12

Total Credits: 123
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\* Senior Capstone Course

\*\* Courses can be selected from MTSC-300 or higher level courses except MTSC- 403. One of the three mathematics electives should be either MTSC-412 (Algebraic Struct. II) or MTSC-452 (Advanced Calculus II) preferably in spring of senior year.

^ Must be a CSCI-200 level or above course that involves programming.

NOTE: A minimum of 123 credit hours are required for graduation. Out of these a minimum of 45 credit hours of mathematics and a minimum of 3 credit hours of computer science must be completed by mathematics majors.

► Writing Intensive Course

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**B.S. DEGREE IN MATHEMATICS EDUCATION**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-191	University Seminar I	1	MTSC-192	University Seminar II	1
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MTSC-213	Discrete Math I ^	3	MTSC-251	Calculus I	4
xx-xxx	Foreign Language I	3	PSYC-201	Intro to General Psychology	3
HIST-201/202/ 203/204	History Elective	3	xx-xxx	Foreign Language II	3
MVSC-100	Fitness and Wellness	2	EDUC-204	Philo Foundations of Education	3
	Total Credits	15		Total Credits	17
			Take & pass the PRAXIS I Exam		
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-252	Calculus II^^	4	MTSC-253	Calculus III	4
PHYS-201	General Physics I	4	PHYS-202	General Physics II	4
ENGL-201 ENGL-205	World Literature I or African - Amer. Literature	3	ENGL-202 ENGL-206	World Literature II or African - Amer. Literature	3
EDUC-313	Intro to Educ. Of Except. Children	3	MTSC-203	College Geometry	3
			ENGL-200	Speech	3
	Total Credits	14		Total Credits	17
			Apply to Teacher Ed. Program + (60 credit – 2.5 GPA)		
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-241	Statistics	3	MTSC-491	History of Mathematics	3
EDUC-322	Teaching Reading in Sec. Educ.	3	MTSC-341	Probability	3
CSCI-261	Elements of Computer Program	4	MTSC-316	Developmental Psychology	3
EDUC-357	Effect. Teaching and Classroom Management	4	MTSC-313	Linear Algebra	3
EDUC-318	Multicultural Educ.	3			
	Total Credits	17		Total Credits	12
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
xx-xxx	Arts & Humanities Elective	3	EDUC-400	Pre-Service Teaching*	12

xx-xxx	Free Elective	3			
xx-xxx	Free Elective	3			
MTSC-411	Algebraic Structures I	3			
MTSC-403	Methods of Teaching Sec. Math	3			
EDUC-416	Analysis of Student Teaching	1			
Take & pass the PRAXIS II Exam ±					
	Total Credits	16		Total Credits	12

^ Students may be advised to take MTSC-121 (College Algebra) prior to MTSC-213 .

^^ Students who do not satisfactorily complete MTSC-251 & MTSC-252 may be advised to consider changing to another major.

+ Students must maintain a 2.5 GPA to be admitted to courses specifically addressing teacher education. **STUDENTS MUST TAKE AND PASS PRAXIS I.**

± Student must pass PRAXIS II prior to EDUC-400 .

\*Senior Capstone course

Total Credits: 120
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► Writing Intensive Course

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**B.S. DEGREE IN MATHEMATICS WITH COMPUTER SCIENCE**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-191	University Seminar I	1	MTSC-192	University Seminar II	1
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MTSC-213	Discrete Math I	3	MTSC-251	Calculus I	4
xx-xxx	Foreign Language I	3	MTSC-214	Discrete Math II	3
CSCI-107	Survey of Computer Science	3	xx-xxx	Foreign Language II	3
MVSC-100	Fitness and Wellness	2	MTSC-261	Elements of Computer Program	4
Total Credits		15	Total Credits		18
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-252	Calculus II	4	MTSC-253	Calculus III	4
PHYS-201	General Physics I	4	PHYS-202	General Physics II	4
ENGL-201 ENGL-205	World Literature I or African - Amer. Literature	3	ENGL-202 ENGL-206	World Literature II or African - Amer. Literature	3
CSCI-240	FORTTRAN	3	MTSC-313	Linear Algebra	3
CSCI-262	Data Structure & Algo I	3	MTSC-263	Data Structures & Algo II	3
Total Credits		17	Total Credits		17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-351	Differential Equations	3	MTSC-341	Probability	3
ECON-201	Macroeconomics	3	ECON-202	Microeconomics	3
MTSC-xxx	Mathematics Elective**	3	CSCI-461	Theory of Computing	3
GLOB-395	Global Societies	3	MTSC-xxx	Mathematics Elective**	3
ENGL-200	Speech	3	MTSC-xxx	Mathematics Elective**	3
Total Credits		15	Total Credits		15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-	Topics in Mathematics*	3	MTSC-	Numerical Analysis or	3

498			431 MTSC- 452	Advanced Calculus	
CSCI- xxx	Computer Elective^	3	xx-xxx	Free Elective	3
xx-xxx	Art/Humanities Elective	3	xx-xxx	Free Elective	3
HIST- 20x	American History	3	MTSC- xxx	Mathematics Elective**	3
	Total Credits	12		Total Credits	12

Total Credits: 121
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\* Senior Capstone Course

\*\* Courses can be selected from MTSC-300 or higher level courses except MTSC- 403

^ Course can be selected from CSCI-300 level

► Writing Intensive Course

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

## **MATHEMATICAL SCIENCES (MTSC) (25)**

### **MTSC-075. INTRODUCTION TO ALGEBRA**

**3:3:0**

The course provides students with a solid foundation in algebra and problem-solving skills needed to move comfortably and confidently into College Algebra, Survey of Mathematics, or Mathematics for Primary and Middle Grade Teachers. Topics include the applications of linear and quadratic equations and inequalities to real world problems, graphing, rational, and radical expressions, and systems of linear equations. The course does not carry credits toward graduation.

Credit, three hours not counted toward graduation.

### **MTSC-101. SURVEY OF MATHEMATICS I**

**3:3:0**

A course designed to acquaint students with problem-solving strategies, sets and applications, logic, arithmetic in different bases, real number system, and algebra.

Prerequisites: Two (2) units of high school Mathematics.

Credit, three hours.

### **MTSC-102. SURVEY OF MATHEMATICS II**

**3:3:0**

A course designed to acquaint students with consumer mathematics, geometry, mathematical systems, introduction to probability and statistics, and an introduction to computers.

Prerequisites: MTSC-101.

Credit, three hours.

### **MTSC-105. MATHEMATICS FOR TEACHERS I**

**3:3:0**

The course is designed to acquaint prospective PK-8, vocational, and special education teachers with the structure of the real numbers system and its subsystems, properties, operations, and algorithms. Topics include problem solving, logic, number theory, and mathematical operations over natural, integer, and rational numbers. The course emphasizes heuristic instruction of students with different learning styles.

Prerequisites: Two (2) years of high school Mathematics, including Algebra and Trigonometry.

Credit, three hours.

### **MTSC-106. MATHEMATICS FOR TEACHERS II**

**3:3:0**

A course designed to introduce problem-solving skills and heuristic instruction to prospective PK-8, vocational, and special education teachers. Topics include real numbers, percents and interest, radicals, rational exponents, probability, statistics, geometry, and measurement.

Prerequisites: MTSC-105.

Credit, three hours.

### **MTSC-110. ALGEBRA A**

**2:3:0**

Algebra A (MTSC-110) is the first part of a two- part sequence that lays the foundation for the study of mathematics and its applications in science, business, social science, art, and music. Students who enter MTSC-110 should possess a foundation in the real number system and its properties, especially fractions, decimals, and percents. MTSC-110 uses traditional classroom instruction together with computer-aided instruction to build on these foundations to provide the conceptual and procedural foundation needed for the advanced application and study of mathematics. As such, the instruction and assignments in MTSC-110 should emphasize both conceptual and procedural understanding as well as problem-solving and critical thinking skills.

Credit, two hours.

**MTSC-111. ALGEBRA B****2:3:0**

Algebra B (MTSC-111) is the second in a sequence of two (2) courses that lay the foundation for the study of mathematics and its applications in science, business, economics, social science, art, and music. Students who enter MTSC-111 should have completed MTSC-110. MTSC-111 uses traditional classroom instruction together with computer-aided instruction to build concepts developed in MTSC-110 to provide the conceptual and procedural foundation needed for the advanced application and study of mathematics. Conceptual understanding plays an important role in the study of and the application of mathematics. As such, the instruction and assignments in MTSC-111 should emphasize both conceptual and procedural understanding as well as problem-solving and critical thinking skills.

Prerequisites: MTSC-110, or permission of Department of Mathematical Sciences.

Credit, two hours.

**MTSC-121. COLLEGE ALGEBRA****3:4:0**

A course designed to expose students to polynomials, factoring, rational expressions, complex numbers, rational exponents, radicals, solutions of equations, linear and quadratic inequalities, functions and graphs, and synthetic division. A graphing calculator is used for learning and discovery in the course. Four (4) contact hours. Credit will not be given for MTSC-121, and the following courses: MTSC-101, MTSC-110, and MTSC-111.

Prerequisites: A minimum of three (3) units of college preparatory Mathematics.

Credit, three hours.

**MTSC-122. TRIGONOMETRY****3:3:0**

A course designed to prepare students for calculus. Topics include exponential and logarithmic functions, trigonometric functions and graphs, trigonometric identities, trigonometric equations, inverse trigonometric functions, laws of sines and cosines and applications, matrices and determinants, and systems of equations.

Prerequisites: MTSC-121 or MTSC-110/111.

Credit, three hours.

**MTSC-125. FINITE MATHEMATICS****3:3:0**

The course is designed to prepare students for business data analysis and for business calculus. Topics include probability, consumer mathematics, counting principles, series, systems of linear equations and inequalities, matrix algebra, linear programming, and exponential and logarithmic functions.

Prerequisites: MTSC-121 or MTSC-110/111.

Credit, three hours.

**MTSC-131. PRE-CALCULUS****4:4:0**

A course designed to prepare students for calculus. Topics include linear and quadratic equations and inequalities, functions and graphing, polynomial zeros and complex numbers, exponential and logarithmic functions, trigonometric functions and identities, the laws of sines and cosines, polar coordinates and vectors, systems of equations, and matrices and sequences.

Prerequisites: A strong high school preparation in Mathematics, as the course covers in four (4) hours what the College Algebra course and the Trigonometry course cover in seven (7) hours.

Credit, four hours.

**MTSC-191. UNIVERSITY SEMINAR I – MATH AND COMPUTER SCIENCE****1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.



**MTSC-192. UNIVERSITY SEMINAR II – MATH AND COMPUTER SCIENCE****1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.

Credit, one hour.

**MTSC-203. COLLEGE GEOMETRY****3:3:0**

A course designed to prepare teachers in geometry. Topics include: axiomatic systems, methods of proof, formal synthetic Euclidean geometry, measurement, transformations, introduction to non-Euclidean geometries, and geometry within art and nature. Course emphasis will additionally be placed upon geometry education, problem-solving heuristic, and pedagogy.

Prerequisites: MTSC-122 with a “C” or better.

Credit, three hours.

**MTSC-204. NON-EUCLIDEAN GEOMETRY****3:3:0**

A treatment of Euclid's parallel postulate, nature of proofs, characteristics of a mathematical system, Lobachevskian Geometry, and Riemannian Geometry.

Prerequisites: MTSC-203 with a “C” or better.

Credit, three hours.

**MTSC-205. MATHEMATICS FOR TEACHERS III****3:3:0**

The course is designed to prepare prospective PK-8, vocational, and special education teachers for solving mathematical problems originating from different disciplines. Topics include techniques and modes of operation in geometry, measurement, algebra, trigonometry, and calculus.

Prerequisites: MTSC-106.

Credit, three hours.

**MTSC-211. GAME THEORY AND STRATEGY****3:3:0**

An interdisciplinary, mathematics-based course designed to analyze situations of conflicts and cooperation that arise in game theory. Game theory are applicable to anthropology, philosophy, business, biology, economics, social psychology, and athletics. Topics include two-person zero-sum games, two-person non-zero-sum games, and n-person games. Games will be examined using graphs, functions, matrices, and optimization.

Prerequisite: MTSC-121 OR MTSC-110/111 with a grade of B or better.

Credit, three hours.

**MTSC-213. DISCRETE MATHEMATICS I****3:3:0**

An introduction to discrete mathematical structures for computer science with emphasis on logic, counting techniques, set theory, mathematical induction, relations, functions, and matrix algebra.

Prerequisites: MTSC-122.

Credit, three hours.

**MTSC-214. DISCRETE MATHEMATICS II****3:3:0**

Principles and applications of discrete mathematical structures in computer science. Topics include Boolean algebra and switching functions, finite state machines, graph theory, trees and mathematical techniques for algorithmic analysis.

Prerequisites: MTSC-213 and MTSC-251 with a “C” or better.

Credit, three hours.

**MTSC-225. CALCULUS FOR BUSINESS AND SOCIAL SCIENCES I****3:3:0**

An introduction to functions, limits and continuity, the derivative, marginal functions, maxima/minima, integrals and fundamental theorems of calculus, applications of differentiation and integration in Business and Economics.

Prerequisites: MTSC-125 with a “C” or better.

Credit, three hours.

**MTSC-226. CALCULUS FOR BUSINESS AND SOCIAL SCIENCES II****3:3:0**

A continuation of MTSC-225 covering a more general treatment and business applications of integration, partial derivatives, optimization problems and LaGrange multipliers, and multiple integration.

Credit, three hours.

**MTSC-241. ELEMENTARY STATISTICS****3:3:0**

A course designed to introduce students to descriptive statistics, measures of central tendency and dispersion, probability, statistical inference, correlation, and regression analysis.

Prerequisites: MTSC-121 or MTSC-110/111 with a “C” or better.

Credit, three hours.

**MTSC-251. CALCULUS I****4:4:0**

An introduction to limits, continuous functions, rate of change, derivatives, implicit differentiation, maximum and minimum points and their applications, and development and application of the definite integral.

Prerequisites: MTSC-122 with a “C” or better.

Credit, four hours.

**MTSC-252. CALCULUS II****4:4:0**

A continuation of MTSC-251 covering logarithmic, exponential, trigonometric and hyperbolic functions, techniques of integration, indeterminate forms, improper integrals, Taylor's formula, and infinite series.

Prerequisites: MTSC-251 with a “C” or better.

Credit, four hours.

**MTSC-253. CALCULUS III****4:4:0**

A continuation of MTSC-252 to include polar coordinates, vectors and parametric equations, solid analytic geometry, and the calculus of several variables.

Prerequisites: MTSC-252 with a “C” or better.

Credit, four hours.

**MTSC-313. LINEAR ALGEBRA****3:3:0**

A treatment of linear equations, matrices and determinants, vector spaces, inner product spaces, linear transformations, eigenvalues, and eigenvectors.

Prerequisites: MTSC-252 with a “C” or better.

Credit, three hours.

**MTSC-341. PROBABILITY****3:3:0**

The course is a treatment of probability theory with stochastic processes. Topics include sample spaces, probability measures, discrete and continuous random variables, sums of independent random variables, law of large numbers, and the Central Limit Theorem. Markov chain models and their applications in the social and natural sciences are included.

Prerequisites: MTSC-251, MTSC-313 with a “C” or better.

Credit, three hours.

**MTSC-351. ORDINARY DIFFERENTIAL EQUATIONS****3:3:0**

A treatment of the solutions and applications of first order linear, homogenous and non-homogenous linear nth order differential equations. A presentation of the power series solutions, Laplace transform, linear systems of ordinary differential equations, and methods of numerical solutions.

Prerequisites: MTSC-252, MTSC-313 with a “C” or better.

Credit, three hours.

**MTSC-403. METHODS OF TEACHING MATHEMATICS IN THE SECONDARY SCHOOL 3:3:0**

A study of the methods and materials used in teaching high school mathematics. The course introduces current educational theory, reform organizations, and research methodologies. Topics include NCTM standards, effective teaching models, lesson plans, classroom management, professionalism, technology in the classroom, and current issues and trends.

Prerequisites: MTSC-252 with a "C" or better.

Credit, three hours.

**MTSC-411. ALGEBRAIC STRUCTURES I 3:3:0**

A study of set theory, functions, integers, groups, matrices, permutation and symmetric groups, LaGrange theorem, normal and factor groups, and homomorphisms.

Prerequisites: MTSC-252, MTSC-214 or its equivalent, with a "C" or better.

Credit, three hours.

**MTSC-412. ALGEBRAIC STRUCTURES II 3:3:0**

A continuation of MTSC-411 covering rings, integral domains, ideals, polynomial rings, principal ideal domains, and unique factorization domains and fields.

Prerequisites: MTSC-411 with a "C" or better.

Credit, three hours.

**MTSC-431. NUMERICAL ANALYSIS 3:3:0**

An introduction to the solutions of equations in one (1) variable, direct methods and matrix techniques for solving systems of equations, interpolation and polynomial approximation, numerical differentiation and integration, and the initial value problems for ordinary differential equations.

Prerequisites: MTSC-252, CSCI-240 or CSCI-262 or other programming language, with a "C" or better.

Credit, three hours.

**MTSC-451. ADVANCED CALCULUS I 3:3:0**

A treatment of vector spaces, differentiation of vector valued functions, and functions of several variables, partial derivatives, maximum and minimum of functions of several variables, Taylor's formula and applications, and line and double integrals.

Prerequisites: MTSC-253 with a "C" or better.

Credit, three hours.

**MTSC-452. ADVANCED CALCULUS II 3:3:0**

A continuation of MTSC-451 covering curve and double integrals, Green's Theorem, triple and surface integrals, Divergence Theorem in 3-space, Stoke's Theorem, Differentiability and the change of Variable Theorem for functions from  $\mathbb{R}^n$  into  $\mathbb{R}^m$ , the Jacobian Matrix, and the inverse mapping and implicit function theorem.

Prerequisites: MTSC-451 with a "C" or better.

Credit, three hours.

**MTSC-454. INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS 3:3:0**

Introduction to the subject of partial differential equations, first order equations (linear and nonlinear), heat equation, wave equation, and Laplace equation. Examples of nonlinear equations of each type. Qualitative properties of solutions. Methods of characteristics for hyperbolic problems. Solution of initial boundary value problems using separation of variable and eigenfunction expansions, and transform methods. Some numerical methods.

Credit, three hours.

**MTSC-461. INTRODUCTION TO REAL ANALYSIS 3:3:0**

An introduction to ordered and Archimedean fields, the theory of limits and continuity of functions, topological concepts, properties of continuous functions, the theory of differentiation and integration, and selected topics from power series and functions of several variables.

Prerequisites: MTSC-451 with a "C" or better.

Credit, three hours.

**MTSC-471. COMPLEX ANALYSIS****3:3:0**

An introduction of complex numbers, Cauchy-Riemann equations, analytic and harmonic functions, elementary functions and their properties, branches of logarithmic functions, inverse trigonometric functions, the Cauchy-Goursat theorem, the Cauchy integral formula, Monera's theorem, Maximum Modula of functions, Taylor and Laurent series, residues and poles, and linear fractional transformations.

Prerequisites: MTSC-452 with a "C" or better.

Credit, three hours.

**MTSC-491. HISTORY OF MATHEMATICS****3:3:0**

A study of the evolution of mathematics. Topics include the scope and history of the Egyptian geometry, Greek and Arabic mathematics, the mechanical world, probability theory, number theory, non-Euclidean geometry, and set theory.

Prerequisites: MTSC-203 and MTSC-253 with a "C" or better.

Credit, three hours.

**MTSC-498. TOPICS IN MATHEMATICS****3:3:0**

Senior Capstone course. A treatment of selected topics in mathematics.

Prerequisites: Consent of the Department of Mathematics.

Credit, three hours.

**MTSC-499. SEMINAR IN MATHEMATICS****3:3:0**

A treatment of selected topics in mathematics augmented by invited guest speakers and student presentations.

Prerequisites: Consent of the Department of Mathematics.

Credit, three hours.

## **DEPARTMENT OF PHYSICS AND PRE-ENGINEERING**

**Acting Chair:** Marcano

**Professors:** Gwanmesia, Helmy, Khan, Melikechi, Zerrad

**Associate Research Professors:** Marcano, Boukari

**Assistant Professors:** Rana, Pati, Tripathi, Planchon

**Visiting Assistant Professors :** Lu, Edziah

**Department Assistant:** Juracka

**Administrative Assistant:** Farlow

### **CURRICULUM OPTIONS IN PHYSICS**

Students must get updated curriculum sheets from their Advisors.

### **PHYSICS MAJOR**

All students who select a major within the Department of Physics and Pre-Engineering must complete the General Education Program as required by Delaware State University (see General Education Requirements). In addition, students who wish to major in Physics must take fifty-two (52) hours of Physics including the following Physics 191, 192, 201-202, 305, 313-314, 316, 331-332, 361, 362, 401-402, 407, 418, and 451, Chemistry 101, and fifteen (15) credits of technical electives.

### **PHYSICS EDUCATION**

All students who select this major must complete the General Education Program as required by DSU (see General Education Requirements). In addition, students who plan to teach on the secondary level must take Physics 191, 192, 201-202, 261, 305, 316, 361, and 418. Every Physics Teaching major must take Astronomy 101, Biology 100, and 205, Chemistry 101-102, Mathematics 251, 252, 253, and 351, Education 204, 207, 210, 313, 318, 322, 344, 357, 400, and 416, Psychology 201, Physical Geology 101.

### **ENGINEERING PHYSICS**

The Engineering Physics curriculum is based on core Physics Engineering courses plus Physics electives within three (3) concentrations: Electrical Engineering, Bioengineering, and Optical Engineering.

Students must take physics 191, 192, 201, 202, 220, 361, 362, 401, 402, and 418, Engineering 205, 210, 211, 212, 220, 221, 302, 309, and 340, Mathematics 251, 252, and 253, Chemistry 101, and twelve (12) credits of technical electives specific to each concentration.

### **PHYSICS MINOR**

A student who desires a minor in Physics must complete Physics 201 and 202, and twelve (12) additional hours of Physics with the consent of the Department.

### **PRE-ENGINEERING PROGRAM**

The Pre-Engineering Program at Delaware State University offers students the opportunity to complete the first two (2) years of an Engineering curriculum and then transfer to other institutions to complete an Engineering degree. Most Engineering colleges require two (2) years of Pre-Engineering preparation for admission to the Engineering Program. This is not an automatic transfer, students must apply for admission.

The Pre-Engineering Program offers three (3) tracks:

- Electrical Engineering
- Mechanical Engineering
- Civil Engineering

**B.S. DEGREE IN PHYSICS EDUCATION**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-191	University Seminar I*	1	PHYS-192	University Seminar II*	1
PHYS-201	General Physics I*	4	PHYS-202	General Physics II*	4
MTSC-251	Calculus I	4	MTSC-252	Calculus II	4
BIOL-100	Intro to Biology	3	EDUC-204	Phil. Foundations of Education	3
ENGL-101	English Composition I*	3	ENGL-102	English Composition II*	3
			MVSC-100	Fitness and Wellness	2
				<a href="#">Take the PRAXIS I Exam</a>	
	Total Credits	15		Total Credits	17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-261	Electronics for Scientists*	3	ASTR-101	Descriptive Astronomy	3
MTSC-253	Calculus III	4	MTSC-351	Differential Equations	3
EDUC-313	Intro to the Education of Children with Exceptional Needs	3	ENGR-107	Physical Geology	4
PSYC-201	Intro to General Psychology	3	EDUC-207	Life Span Development	3
ENGL-xxx	World Literature*	3	xx-xxx	Arts/Humanities Elective	3
				<a href="#">Pass Praxis I &amp; Apply to the Teacher Ed Program (60 credits – GPA 2.5 minimum)</a>	
	Total Credits	16		Total Credits	16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-305	Thermal Physics*	3	PHYS-316	Intro to Optics*	4
CHEM-101	Gen & Analytical Chemistry I	4	CHEM-102	Gen & Analytical Chemistry II	4
EDUC-344	Instructional Technology in Education	3	PHYS-418	Theoretical & Experimental Research*	3
HIST-xxx	History Elective	3	EDUC-322	Teaching Reading in Sec Ed	3
ENGL-200	Speech	3	EDUC-357	Effective Teaching Skills and Classroom Management	4
	Total Credits	16		Total Credits	18
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-361	Modern Physics	3	EDUC-400	Pre-Service Teaching**	12
BIOL-	Ecology	4			

205					
EDUC-210	Methods of Teaching Science	3			
EDUC-318/ GLST-395	Multicultural Ed/Global Societies	3			
EDUC-416	Analysis of Student Teaching	1			
xx-xxx	Arts/Humanities Elective	3			
	Students must pass PRAXIS II before Pre-Service Teaching				
Total Credits		17		Total Credits	12

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

*Students must complete a course that addresses the African-American experience. This course may also satisfy an arts/humanities elective or the history elective. Please see your advisor.*

Total Credits: 127

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

**B.S. DEGREE IN PHYSICS**  
**Effective Fall 2010**

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-201	General Physics I*	4	PHYS-202	General Physics II*	4
MTSC-251	Calculus I	4	MTSC-252	Calculus II	4
CHEM-101	Gen and Analytical Chemistry I	4	PHYS-xxx	Scientific Programming	3
ENGL-101	English Composition I*	3	ENGL-102	English Composition II*	3
PHYS-191	University Seminar I*	1	PHYS-192	University Seminar II*	1
	Total Credits	16		Total Credits	15
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-313	Analytic Mechanics I	3	PHYS-314	Analytic Mechanics II	3
PHYS-261	Electronics for Scientists*	3	PHYS-316	Introduction to Optics*	4
MTSC-351	Differential Equations	3	MTSC-253	Calculus III	4
ENGL-xxx	World Literature Elective*	3	ENGL-200	Speech	3
MVSC-100	Lifetime Fitness and Wellness	2	xx-xxx	Arts and Humanities Elective	3
	Total Credits	14		Total Credits	17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-361	Modern Physics	3	PHYS-362	Quantum Mechanics	3
PHYS-331	Math Methods of Physics I	3	PHYS-332	Math Methods of Physics II	3
PHYS-305	Thermal Physics	3	PHYS-xxx	Technical Elective	3
xx-xxx	Elective	3	GLST-395	Global Societies	3
HIST-xxx	World History Elective	3	xx-xxx	Social Science Elective	3
	Total Credits	15		Total Credits	15
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-401	Electricity and Magnetism I	3	PHYS-402	Electricity and Magnetism II	3
PHYS-407	Advanced Modern Physics	4	PHYS-418	Theoretical & Experimental Research**	3
PHYS-	Introduction to Research*	3	PHYS-	Technical Elective	3



451			xxx		
PHYS- xxx	Technical Elective	3	xx-xxx	Elective	3
xx-xxx	Arts and Humanities Elective	3			
	Total Credits	16		Total Credits	12

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

*Students will complete a course that addresses the African-American experience. This course may also satisfy the arts & humanities elective, the social science elective or can be taken to fulfill a free elective. Please see your advisor.*

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 120
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## B.S. DEGREE IN ENGINEERING PHYSICS

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-201	General Physics I	4	PHYS-202	General Physics II	4
MTSC-251	Calculus I	4	MTSC-252	Calculus II	4
ENGR-210	Intro. to Combinational Logic	2	ENGR-211	Intro. to Sequential Circuits	2
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
PHYS-191	University Seminar I	1	PHYS-191	University Seminar II	1
MVSC-100	Lifetime Fitness and Wellness	2	PHYS-220	Scientific Programming	3
	Total Credits	16		Total Credits	17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
ENGR-220	Microprocessor Based System I	2	ENGR-221	Microprocessor Based System II	2
CHEM-101	Gen. & Elem. Chemistry I	4	ENGR-212	Signals and Systems	4
ENGR-205	Analog Circuits I	4	ENGR-309	Electronic Circuit Analysis I	4
MTSC-351	Differential Equations	3	MTSC-253	Calculus III	4
ENGL-xxx	World Literature Elective	3	ENGL-200	Speech	3
	Total Credits	16		Total Credits	16
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-361	Modern Physics	3	ENGR-302	Material Science	4
ENGR-340	Solid State Electronics I	3	PHYS-362	Quantum Mechanics	3
PHYS-xxx	Technical Elective	3/4	PHYS-xxx	Technical Elective	3/4
xx-xxx	Technical Elective	3/4	GLST-395	Global Societies	3
HIST-xxx	World History Elective	3	xx-xxx	Social Science Elective	3
	Total Credits	15-17		Total Credits	16-17
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-411	Electricity and Magnetism I	3	PHYS-412	Electricity and Magnetism II	3
PHYS-451	Introduction to Research*	3	PHYS-418	Senior Research Project **	3
PHYS-	Technical Elective	3/4	PHYS-	Technical Elective	3/4

xxx			xxx		
xx-xxx	Technical Elective	3/4	xx-xxx	Technical Elective	3/4
xx-xxx	Arts and Humanities Elective	3	xx-xxx	Arts and Humanities Elective	3
	Total Credits	15-17		Total Credits	15-17

**\*\* Senior Capstone**

**\* Writing Intensive Course(s)**

Students will complete a course that addresses the African-American experience. This course may also satisfy the arts & humanities elective, the social science elective or can be taken to fulfill a free elective. Please see your advisor.

**The Program's Across-the-Curriculum Guide must be consulted for requirements and/or options.**

Total Credits: 126-133
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**Technical Elective Selection**

The Student and Advisor will choose a minimum of 12 credits from technical electives under the chosen track. Courses in red are proposed courses.

**Electrical Engineering Concentration**

<b>Course</b>	<b>Course Name</b>	<b>Credits</b>
PHYS-316	Introduction to Optics	4
PHYS-331	Mathematical Methods of Physics I	3
PHYS-332	Mathematical Methods of Physics II	3
PHYS-302	Signal Processing I	3
PHYS-311	Fiber Optics Communication	4
PHYS-315	Computer Communications	3
PHYS-310	Optical Electronics	3
PHYS-404	Introduction to VLSI Design	4

**Bioengineering Concentration**

<b>Course</b>	<b>Course Name</b>	<b>Credits</b>
PHYS-316	Introduction to Optics	4
BIOT-303	Topics in Bioinformatics	3
PHYS-331	Mathematical Methods of Physics I	3
PHYS-332	Mathematical Methods of Physics II	3
PHYS-313	Analytical Mechanics I	3
PHYS-314	Analytical Mechanics II	3
PHYS-317	Foundations in Bioengineering	4
PHYS-410	Molecular Engineering Systems	4
PHYS-409	Biosensors & Bioinstrumentation	3
PHYS-406	Modern Optical Techniques	4

**Optical Engineering Concentration**

<b>Course</b>	<b>Course Name</b>	<b>Credits</b>
PHYS-316	Introduction to Optics	4
PHYS-331	Mathematical Methods of Physics I	3
PHYS-332	Mathematical Methods of Physics II	3
PHYS-302	Signal Processing I	3
PHYS-311	Fiber Optics Communication	4
PHYS-310	Optical Electronics	3
PHYS-406	Modern Optical Techniques	4

## CURRICULUM FOR PRE-ENGINEERING PROGRAM ELECTRICAL ENGINEERING TRACK

### Freshman Fall Semester

### Freshman Spring Semester

<i>Course Number</i>	<i>Course Title</i>	<i>Cr</i>	<i>Course Number</i>	<i>Course Title</i>	<i>Cr</i>
ENGL-101	English Composition I	3	ENGL-102	English Composition II	3
MTSC-251	Calculus I	4	MTSC-252	Calculus II	4
PHYS-201	General Physics I	4	PHYS-202	General Physics II	4
ENGR-210	Intro to Combinational Logic	2	MVSC-100	Lifetime and Fitness Wellness	2
MTSC-191	University Seminar I	1	ENGR-211	Intro to Sequential Circuits	2
CSCI-xxx	Programming for Engineers	3	PHYS-192	University Seminar II	1
			xx-xxx	Gen Educ Prog Elective	3
		17			19

### Sophomore Fall Semester

### Sophomore Spring Semester

<i>Course Number</i>	<i>Course Title</i>	<i>Cr</i>	<i>Course Number</i>	<i>Course Title</i>	<i>Cr</i>
MTSC-253	Calculus III	4	MTSC-351	Differential Equations	3
ENGR-205	Linear Circuit Theory I	4	MTSC-313	Linear Algebra	3
ENGR-220	Microprocessor Based Systems I	2	CSCI-263	Data Structures	3
ECON-202	Intro to Microeconomics	3	ENGR-309	Electronic Circuit Analysis	4
CHEM-101	Gen & Elem Anal Chemistry I	4	ENGR-221	Microprocessor Based Systems II	2
			xx-xxx	General Education Elective	3
		17			18

## CURRICULUM FOR PRE-ENGINEERING PROGRAM MECHANICAL ENGINEERING TRACK

### Freshman Fall Semester

<i>Course Number</i>	<i>Course Title</i>	<i>Cr</i>
ENGL-101	English Composition I	3
MTSC-251	Calculus I	4
PHYS-201	General Physics I	4
xx-xxx	General Education Elective	3
PHYS-191	University Seminar I	1
MVSC-100	Lifetime Fitness & Wellness	2
		17

### Freshman Spring Semester

<i>Course Number</i>	<i>Course Title</i>	<i>Cr</i>
ENGL-102	English Composition II	3
MTSC-252	Calculus II	4
PHYS-202	General Physics II	4
ENGR-132	Engineering Graphics & Analysis	2
PHYS-220	Scientific Programming	3
PHYS-192	University Seminar II	1
		17

### Sophomore Fall Semester

<i>Course Number</i>	<i>Course Title</i>	<i>Cr</i>
MTSC-253	Calculus III	4
PHYS-311	Analytical Mechanics I	3
CHEM-101	Gen & Elem Anal Chemistry I	4
ENGR-205	Linear Circuit Theory	4
xx-xxx	General Education Elective	3
		18

### Sophomore Spring Semester

<i>Course Number</i>	<i>Course Title</i>	<i>Cr</i>
MTSC-351	Differential Equations	3
PHYS-314	Analytical Mechanics II	3
ENGR-309	Electronic Circuit Analysis	4
ENGR-302	Material Science for Engineers	4
PHYS-305	Thermal Physics	3
		17

# CURRICULUM FOR PRE-ENGINEERING PROGRAM

## CIVIL ENGINEERING TRACK

### Freshman Fall Semester

<i>Course Number</i>	<i>Course Title</i>	<i>Cr</i>
ENGL-101	English Composition I	3
MTSC-251	Calculus I <sup>c</sup>	4
PHYS-201	General Physics I	4
PHYS-191	University Seminar I	1
xx-xxx	Gen Education Elective	3
MVSC-100	Lifetime Fitness and Wellness	2
		17

### Freshman Spring Semester

<i>Course Number</i>	<i>Course Title</i>	<i>Cr</i>
ENGL-102	English Composition II	3
MTSC-252	Calculus II	4
PHYS-202	General Physics II	4
ENGR-132	Eng Graphic & Analysis	2
PHYS-220	Scientific Programming	3
PHYS-192	University Seminar II	1
		17

### Sophomore Fall Semester

<i>Course Number</i>	<i>Course Title</i>	<i>Credits Earned</i>
PHYS-313	Analytical Mechanics I	3
MTSC-253	Calculus III	4
ENGR-107	General Geology for Engineers	4
ENGL-200	Speech	3
CHEM-102	Gen. Elem Analy Chemistry II	4
		18

### Sophomore Spring Semester

<i>Course Number</i>	<i>Course Title</i>	<i>Cr</i>
PHYS-314	Analytical Mechanics II	3
MTSC-351	Differential Equations	3
ENGR-302	Material Science for Engineers	4
xx-xxx	Solid Mechanics	3
xx-xxx	CE Materials Laboratory	1
xx-xxx	<b>General Education Elective</b>	<b>3</b>
		17

## **PHYSICS (PHYS) (26)**

### **PHYS-111. INTRODUCTION TO PHYSICS I**

**3:3:0**

An introductory course in physics with emphasis on mechanics, sound, thermodynamics, optics, electricity, and magnetism. Three (3) lectures per week.

Prerequisites: MTSC-121, MTSC-122 or consent of the Department.

Credit, three hours each.

### **PHYS-111L. INTRODUCTION TO PHYSICS LABORATORY I**

**1:0:2**

Laboratory section taken in association with PHYS-111 and PHYS-112. One (1) two-hour laboratory period per week.

Corequisites: PHYS-111, PHYS-112.

Credit, one hour each.

### **PHYS-112. INTRODUCTION TO PHYSICS II**

**3:3:0**

An introductory course in physics with emphasis on mechanics, sound, thermodynamics, optics, electricity, and magnetism. Three (3) lectures per week.

Prerequisites: MTSC-121, MTSC-122 or consent of the Department.

Credit, three hours each.

### **PHYS-112L. INTRODUCTION TO PHYSICS LABORATORY II**

**1:0:2**

Laboratory section taken in association with PHYS-111 and PHYS-112. One (1) two-hour laboratory period per week.

Corequisites: PHYS-111, PHYS-112.

Credit, one hour each.

### **PHYS-121. CONCEPTS OF PHYSICS I**

**3:2:2**

Designed primarily for the non-science major. A descriptive treatment of the basic principles of classical physics. Motion, energy, properties of matter, and thermal physics are treated in a conceptual, largely non-mathematical format. There are no mathematics or science prerequisites. Two (2) lectures and one (1) two-hour laboratory period per week.

Credit, three hours.

### **PHYS-122. CONCEPTS OF PHYSICS II**

**3:2:2**

Designed primarily for the non-Science major. A descriptive treatment of the basic principles of sound, electricity, magnetism, and optics is presented in a conceptual, largely non-mathematical, format. There are no mathematics or science prerequisites. Two (2) lectures and one (1) two-hour laboratory period per week.

Credit, three hours.

### **PHYS-123. CONCEPTS OF MODERN PHYSICS**

**3:2:2**

A descriptive treatment of relativity, atomic structure, and nuclear physics primarily for the non-science major. In the laboratory period, selected topics of 20th century physics are investigated. There are no mathematics or science prerequisites. Two (2) lectures and one (1) two-hour laboratory period per week.

Credit, three hours.

### **PHYS-131. ENERGY**

**3:2:2**

A course covering the scientific, technological, economic, political, and environmental factors associated with energy production and use. There are no mathematics or science prerequisites. Two (2) lectures and one (1) two-hour laboratory period per week.

Credit, three hours.

### **PHYS-141. SOUNDS AND ACOUSTICS**

**3:2:2**

An introductory course for the non-Science major which investigates the principles underlying hi-fidelity sound reproduction equipment and techniques. Topics covered include speaker design, radio transmission, receiver and amplifier operation, and tape and CD function. There are no mathematics or science prerequisites. Two (2) lectures and one (1) two-hour laboratory each week.



Credit, three hours.

**PHYS-191. UNIVERSITY SEMINAR I PHYSICS AND PRE-ENGINEERING**

**1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course. Students will also engage in analytical problem solving and learn about the process of science by designing investigations to answer scientific questions and implementing the use of technology to complete these investigations.

Credit, one hour.

**PHYS-192. UNIVERSITY SEMINAR II PHYSICS AND PRE-ENGINEERING**

**1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course. Students will also engage in analytical problem solving and learn about the process of science by designing investigations to answer scientific questions and implementing the use of technology to complete these investigations.

Credit, one hour.

**PHYS-201. GENERAL PHYSICS I**

**4:3:2**

An elementary treatment of mechanics, wave motion, hydrostatics, sound, heat, light, electricity, and magnetism. Some calculus concepts are employed, and the problem method is largely used. Three (3) lectures and one (1) two-hour laboratory period per week.

Prerequisites: MTSC-251, MTSC-252.

Credit, four hours each.

**PHYS-202. GENERAL PHYSICS II**

**4:3:2**

An elementary treatment of mechanics, wave motion, hydrostatics, sound, heat, light, electricity, and magnetism. Some calculus concepts are employed, and the problem method is largely used. Three (3) lectures and one (1) two-hour laboratory period per week.

Prerequisites: MTSC-251, MTSC-252.

Credit, four hours each.

**PHYS-211. FUNDAMENTALS OF PHYSICS I**

**4:3:2**

A calculus based general physics sequence intended to meet the needs of students enrolled in all science, math, and technology programs (except physics and engineering majors). The sequence will address the fundamental concepts in linear and rotational mechanics, fluids, thermodynamics and kinetic theory, electric fields and circuits, magnetic fields, geometric and wave optics, and topics in modern physics. The following Strands and Goals of the General Education Program will be addressed by this course: Reading, Writing, Speaking, Listening, Across the Curriculum, Critical Thinking / Problem Solving, Computer and Information Technology, and Moral / Ethical Issues.

Credit, four hours each.

**PHYS-212. FUNDAMENTALS OF PHYSICS II****4:3:2**

A calculus based general physics sequence intended to meet the needs of students enrolled in all science, math, and technology programs (except physics and engineering majors). The sequence will address the fundamental concepts in linear and rotational mechanics, fluids, thermodynamics and kinetic theory, electric fields and circuits, magnetic fields, geometric and wave optics, and topics in modern physics. The following Strands and Goals of the General Education Program will be addressed by this course: Reading, Writing, Speaking, Listening, Across the Curriculum, Critical Thinking / Problem Solving, Computer and Information Technology, and Moral / Ethical Issues.

Credit, four hours each.

**PHYS-220. SCIENTIFIC PROGRAMMING****3:3:0**

An introduction to scientific software including program writing, data processing, and visualization. Software packages used for the class include C/C++, MATLAB, and Origin.

Credit, three hours.

**PHYS-250. RADIOISOTOPES****3:2:2**

A lecture and laboratory course designed to provide a theoretical and practical knowledge of radioisotopes. The lecture topics include properties of radiation, nuclear reactions, health physics, and applications of radioisotopes in research and industry. In the laboratory, emphasis is placed on radiation detection, and measurement with appropriate safety precautions. Two (2) lectures and one (1) two-hour laboratory period per week.

Prerequisites: Completion of the Mathematics requirements under General Education.

Credit, three hours.

**PHYS-261. ELECTRONICS FOR SCIENTISTS****3:1:4**

The course includes the development of skills and understanding of basic principles of electronic instrumentations. Typical topics include the study and use of simple circuits and basic electronic devices like diodes and transistors, the measurement of characteristics of electronic signals and the use of basic instrumentation like oscilloscopes, amplifiers, signal generators, power supplies, detectors and others for conducting concrete physical experiments. One (1) laboratory period.

Prerequisites: MTSC-252, PHYS-202.

Credit, four hours.

**PHYS-302. SIGNAL PROCESSING I****3:3:0**

An introduction to both the theory and applications in signals and systems. Discrete and continuous time signals and systems, sampling, and conversion between analog and digital signals.

Prerequisites: ENGR-212.

Credit, three hours.

**PHYS-305. THERMAL PHYSICS****3:3:0**

An intermediate course on the thermal phenomena involving gases and solids. The topics included are thermometry, calorimetry, specific heat, expansion, heat transfer, introductory kinetic theory, laws of thermodynamics, and applications. Three (3) lectures per week.

Prerequisites: PHYS-251, MTSC-252, PHYS-201, PHYS-202.

Credit, three hours.

**PHYS-306. COMPUTATIONAL METHODS OF PHYSICS****3:3:0**

Development and computer-assisted analysis of mathematical models in chemistry, physics, and engineering. Typical topics include reaction rates, particle scattering, vibrating systems, least square analysis, and quantum chemistry. One (1) class period and two (2) computer laboratory periods.

Prerequisites: MTSC-251, MTSC-252, PHYS-201, PHYS-202, working knowledge of FORTRAN, C or C++, PASCAL or BASIC, and consent of the Instructor.

Credit, three hours.

**PHYS-307. SOUND AND VIBRATION****3:2:2**

An intermediate course in the fundamentals of periodic phenomena including wave motion in solid, liquid, and gaseous media, and introductory acoustics. Two (2) lectures and one (1) two-hour laboratory period per week.

Prerequisites: MTSC-251, PHYS-201, PHYS-202.

Credit, three hours.

**PHYS-310. OPTICAL ELECTRONICS****3:3:0**

An overview of laser and optical systems with emphasis on optical beams and resonant laser cavities, characteristics of typical lasers (gas, solid state, and semiconductor), and application of optical devices.

Prerequisites: PHYS-351.

Credit, three hours.

**PHYS-311. FIBER OPTICS COMMUNICATIONS****4:3:2**

The course enables students to gain theoretical and practical background in both physics and engineering aspects of fiber optic communications including the fundamental principle of light propagation in optical fibers and waveguides, the critical components of fiber optic networks, and fiber optical network systems.

Prerequisites: PHYS-316.

Credit, four hours.

**PHYS-313. ANALYTICAL MECHANICS I****3:3:0**

An intermediate level sequence of courses addressing the mechanics of single particles, systems of particles, and rigid bodies. The effects of forces and moments are investigated first through the equilibrium of structures and then through the study of dynamic systems. The conservation principles will be emphasized, and Lagrangian and Hamiltonian dynamics will be used to analyze a variety of mechanical systems. Four (4) lecture periods per week.

Prerequisites: MTSC-251, MTSC-252, PHYS-201, PHYS-202.

Credit, four hours each.

**PHYS-314. ANALYTICAL MECHANICS II****3:3:0**

An intermediate level sequence of courses addressing the mechanics of single particles, systems of particles, and rigid bodies. The effects of forces and moments are investigated first through the equilibrium of structures and then through the study of dynamic systems. The conservation principles will be emphasized, and Lagrangian and Hamiltonian dynamics will be used to analyze a variety of mechanical systems. Four (4) lecture periods per week.

Prerequisites: MTSC-251, MTSC-252, PHYS-201, PHYS-202.

Credit, four hours each.

**PHYS-315. COMPUTER COMMUNICATIONS****3:3:0**

An introduction, with an engineering emphasis, to the basic concepts of computer communication networks; network protocols, architecture, packet switching, LAN and WAN technologies, internet protocols, network performance, security, and management. Three (3) lectures per week.

Prerequisites: PHYS-213.

Credit, three hours.

**PHYS-316. INTRODUCTION TO OPTICS****4:3:2**

An intermediate course in the fundamentals of physical optics. Topics included are theories of light, measurement of the speed of light, reflection, refraction, interference, diffraction, scattering, polarization, crystal optics, lasers and holography, optical instruments, and spectroscopy. Three (3) lectures and one (1) two-hour laboratory period per week.

Prerequisites: MTSC-251, MTSC-252, MTSC-201, MTSC-202.

Credit, four hours.

**PHYS-317. FOUNDATIONS OF BIOENGINEERING****3:3:0**

An overview of the structure and function of biological molecules. The course covers in depth the physical aspects of human anatomy, molecular, and cellular biology.

Credit, three hours.

**PHYS-331. MATHEMATICAL METHODS OF PHYSICS I****3:3:0**

An intermediate course covering applied differential equations, vectors, matrices, Fourier series, Laplace transformations, and boundary value problems in general. Three (3) lectures per week.

Prerequisites: MTSC-251, MTSC-252.

Credit, three hours.

**PHYS-332. MATHEMATICAL METHODS OF PHYSICS II****3:3:0**

An intermediate treatment of mathematical topics including complex variables, linear vector spaces, and integral transforms.

Prerequisites: MTSC-251, MTSC-252.

Credit, three hours.

**PHYS-351. APPLIED PHYSICS LAB I****3:1:4**

An intermediate level course sequence in which applications of basic principles to laboratory systems are stressed. Areas treated include signal processing, electro-optical devices, and automated laboratory systems. One (1) lecture and two (2) two-hour laboratory sessions per week.

Prerequisites: ENGR-205.

Credit, three hours.

**PHYS-352. APPLIED PHYSICS LAB II****3:1:4**

An intermediate level course sequence in which applications of basic principles to laboratory systems are stressed. Areas treated include signal processing, electro-optical devices, and automated laboratory systems. One (1) lecture and two (2) two-hour laboratory sessions per week.

Prerequisites: ENGR-205.

Credit, three hours.

**PHYS-361. MODERN PHYSICS****3:3:0**

A course covering an introduction to the special theory of relativity, wave-particle duality, the quantum theory and their application to the study of the structure of atoms, and the atomic nuclei.

Prerequisites: MTSC-251, MTSC-252, PHYS-201, PHYS-202.

Credit, three hours.

**PHYS-362. QUANTUM MECHANICS****3:3:0**

A course in the basic principles of quantum mechanics covering the Schrodinger equation, operators and transformation theory, angular momentum, atomic structure, and perturbation theory. Three (3) lectures per week.

Prerequisites: PHYS-313, PHYS-314, PHYS-361.

Credit, three hours.

**PHYS-404. INTRODUCTION TO VLSI DESIGN****4:3:2**

An introduction to the design and technology of very large scale integrated (VLSI) devices, circuits and systems including logic design fundamentals, graphics layout, clocking and timing, architecture, performance, limitations, packaging, and a required design project.

Prerequisites: ENGR-309.

Credit, four hours.

**PHYS-405. ELECTRONICS PHYSICS I****3:1:4**

An intermediate course in applied electronics. One (1) lecture and two (2) two-hour laboratory periods per week.

Credit, three hours each.

**PHYS-406. ELECTRONICS PHYSICS II****3:1:4**

An intermediate course in applied electronics. One (1) lecture and two (2) two-hour laboratory periods per week.

Credit, three hours each.

**PHYS-407. ADVANCED MODERN PHYSICS****4:3:2**

New concepts of physics developed in the 20th century, namely quantum mechanics and relativity, are applied to study a variety of modern physics problems ranging from atomic and nuclear physics to molecular physics and nuclear physics. Three (3) lectures and one (1) two-hour laboratory period per week.

Prerequisites: MTSC-251, MTSC-252, PHYS-201, PHYS-202, PHYS-361.

Credit, four hours.

**PHYS-408. MODERN OPTICAL TECHNIQUES****3:3:0**

The course enables students to gain both physics and engineering aspects of various modern optical imaging, sensing, and detection techniques. Focus is given to applications in industry, defense and security, and life science.

Prerequisites: PHYS-316.

Credit, three hours.

**PHYS-409. BIOSENSORS AND BIOINSTRUMENTATION****4:3:2**

Origins and characteristics of bioelectric signals, recording electrodes, biopotential amplifiers, basic sensors, chemical, pressure, sound, and flow transducers, noninvasive monitoring techniques, and electrical safety.

Prerequisites: PHYS-317.

Credit, four hours.

**PHYS-410. MOLECULAR ENGINEERING SYSTEMS****4:3:2**

An overview of engineering biology with an emphasis on molecular systems. Topics include DNA nanotechnology, cell cloning, and gene therapy.

Prerequisites: PHYS-317.

Credit, four hours.

**PHYS-411. THEORY OF ELECTRICITY AND MAGNETISM I****3:3:0**

An intermediate course in the theory of electricity and magnetism. Topics include electrostatics, electrodynamics, dielectric theory, magnetic properties of matter, and Maxwell's Equations. Three (3) lectures and one (1) two-hour laboratory period per week.

Prerequisites: MTSC-251, MTSC-252, PHYS-313, PHYS-314 or equivalent.

Credit, three hours each.

**PHYS-412. THEORY OF ELECTRICITY AND MAGNETISM II****3:3:0**

An intermediate course in the theory of electricity and magnetism. Topics include electrostatics, electrodynamics, dielectric theory, magnetic properties of matter, and Maxwell's Equations. Three (3) lectures and one (1) two-hour laboratory period per week.

Prerequisites: MTSC-251, MTSC-252, PHYS-313, PHYS-314 or equivalent.

Credit, three hours each.

**PHYS-413. INTRODUCTION TO LASER PHYSICS****4:3:2**

The course will develop understanding of the basic principles as well as the theory of different types of lasers. The topics will include fundamentals of quantum electronics, oscillator model, rate equations, stimulated transitions, population inversion, laser amplification, design of laser resonators, principles of Q-switching, mode locking, injection locking, and modern applications of lasers. Three (3) lectures and one (1) two-hour laboratory period per week.

Prerequisites: MTSC-251, MTSC-252, PHYS-316, PHYS-361, and consent of the Instructor.

Credit, four hours.

**PHYS-418. THEORETICAL AND EXPERIMENTAL RESEARCH****3:1:4**

A laboratory course for senior Physics majors covering selected topics on intermediate and advanced levels. One (1) lecture and two (2) two-hour laboratory periods per week.

Prerequisites: Consent of the Department.

Credit, three hours.

**PHYS-421. INTRODUCTION TO SOLID STATE PHYSICS****3:3:0**

A study of the fundamental properties of metals, semiconductors, and insulators: crystal structure, lattice vibrations and electron theory of metals and semiconductors.

Prerequisites: MTSC-251, MTSC-252, PHYS-201, PHYS-202.

Credit, three hours.

**PHYS-423. INTRODUCTION TO NONLINEAR OPTICS****4:3:2**

The course will develop an understanding of the basic principles of light matter interaction and develop the fundamental concepts of various nonlinear optical processes in different type of materials. The topics will include an anharmonic classical oscillator model for nonlinear susceptibility, quantum mechanical treatment of nonlinear susceptibility, resonant and nonresonant nonlinearities, nonlinearities due to molecular orientation, optical phase conjugation, bistability, spontaneous and stimulated light scattering, and photorefractive phenomena and their applications.

Prerequisites: MTSC-251, MTSC-252, PHYS-316, PHYS-361, PHYS-362, and consent of the Instructor.

Credit, four hours.

**PHYS-441. SELECTED TOPICS IN PHYSICS I****3:3:0**

An intermediate course covering subjects related to current developments in physics.

Prerequisites: Consent of the Department.

Credit, three hours each.

**PHYS-442. SELECTED TOPICS IN PHYSICS II****3:3:0**

An intermediate course covering subjects related to current developments in physics.

Prerequisites: Consent of the Department.

Credit, three hours each.

**PHYS-451. INTRODUCTION TO RESEARCH****3:3:0**

This course is an independent study course dealing with current research methodologies in physics.

Prerequisites: PHYS-201, PHYS-202

Credit, three hours.

**PHYS-452. RESEARCH ETHICS****3:3:0**

A discussion of the moral values, the attitudes and habits acceptable in research, and as exemplified in the process of the acquisition of scientific data, their analysis, and dissemination.

Credit, three hours.

**PRE-ENGINEERING (ENGR) (50)****ENGR-105. PROGRAMMING FOR ELECTRICAL ENGINEERS****3:3:0**

Introduction to the computer language C/C++ and its use to solve elementary engineering problems using structured and object-oriented programming. Three (3) lectures per week.

Credit, three hours.

**ENGR-106. PROGRAMMING FOR ENGINEERS****3:3:0**

Introduction to the computer language FORTRAN 90 and its use to solve elementary engineering problems. Three (3) lectures per week.

Credit, three hours.

**ENGR-107. GENERAL GEOLOGY FOR ENGINEERS****4:4:0**

The nature of the Earth and of the processes that shape it: the Earth's external and internal energy, minerals and rocks, external processes and the evolution of the landscape, internal processes and the structure of the Earth, the Earth compared with other planets, sources of materials, and energy.

Credit, four hours.

**ENGR-132. ENGINEERING GRAPHICS AND ANALYSIS****3:0:5**

Fundamental concepts of multi-view projection drawing and application of drawing conventions. Includes sectional views, dimensioning, pictorial representation, fastener specifications, and drawings for various engineering disciplines. Computer applications include data structure for computer modeling, plotting routines for computer drawing, and an introduction to CAD principles. Five (5) hours laboratory per week.

Credit, three hours.

**ENGR-202. INTRODUCTION TO DIGITAL SYSTEMS****4:3:1**

A unified overview of the interrelationship among the digital representation and processing of information, the analysis and design of combinational and sequential digital networks, and the application of stored program information processors. Three (3) lectures and one (1) two-hour laboratory period per week.

Prerequisites: PHYS-202.

Credit, four hours.

**ENGR-205. ANALOG CIRCUITS I****4:3:3**

Laws of the electric circuit, analysis of DC and AC circuits, network equations, and network theorems. Three (3) lectures and one (1) three-hour laboratory period per week.

Prerequisites: MTSC-351, PHYS-202.

Credit, four hours.

**ENGR-210. INTRODUCTION TO COMBINATIONAL LOGIC****2:2:2**

Boolean algebra and its application to logic gates. Simplification of switching functions. Gate level logic design and design with MSI and LSI. Two (2) lectures and one (1) two-hour laboratory per week.

Credit, three hours.

**ENGR-211. INTRODUCTION TO SEQUENTIAL CIRCUITS****2:2:2**

Analysis and design of synchronous, asynchronous systems, and algorithmic state machines. Two (2) lectures and one (1) two-hour laboratory per week.

Prerequisites: ENGR-210.

Credit, three hours.

**ENGR-212. SIGNALS AND SYSTEMS****4:3:1**

An introduction to both theory and applications in signals and systems with applications drawn from communications, automatic control, filtering, audio, and image processing. Discrete and continuous time signals and systems, sampling, convolution, Fourier series and transforms, conversion between analog and digital signals. modulation, and Laplace and Z-transforms. Three (2) lectures and one (1) two-hour laboratory period per week.

Prerequisites: MTSC-252.

Credit, four hours.

**ENGR-220. MICROPROCESSOR-BASED SYSTEMS I****2:2:2**

Introduction to small computing machines, architecture organization, and programming. One (1) lecture and one (1) two-hour laboratory per week.

Prerequisites: ENGR-211 and consent of the Department.

Credit, two hours.

**ENGR-221. MICROPROCESSOR-BASED SYSTEMS II****2:2:2**

Extension of the concepts of Electrical Engineering 220 with emphasis on I/O, interrupt systems, and interfacing. One (1) lecture and one (1) two-hour laboratory per week.

Prerequisites: ENGR-220.

Credit, two hours.

**ENGR-225. LOGICAL DESIGN OF DIGITAL CIRCUITS****3:3:0**

The logical properties of circuits based on two (2) valued devices; analysis and synthesis of combinational networks, optimization of combinational nets; sequential system organization and optimization; arithmetic algorithms, and languages for describing the behavior of automata.

Prerequisites: ENGR-202.

Credit, three hours.

**ENGR-270. INTRODUCTION TO DISCRETE SYSTEMS****3:3:0**

An algorithmic, discrete signal approach to electrical systems. Topics include digital signal representation, digital filters, Z transforms, discrete Fourier systems, graphs, and flow network applied to electrical systems.

Prerequisites: MTSC-252.

Credit, three hours.

**ENGR-302. MATERIAL SCIENCE FOR ENGINEERS****4:3:3**

Crystal binding and structure; energetic and structure of lattice defects; structures of inorganic and organic polymers; electronic and magnetic properties; elasticity, plasticity, and fracture; phase equilibria and transformations; reactions of structure, and treatment to properties. Three (3) one-hour lectures and one (1) three-hour laboratory per week.

Credit, four hours.

**ENGR-309. ELECTRONIC CIRCUIT ANALYSIS****4:3:3**

Introduction to the physical principle of solid-state electronic devices. Quantitative study of elementary circuits including biasing, linear power amplifiers, low-frequency small signal analysis, multiple transistor circuits, and feedback. Three (3) lectures and one (1) three-hour laboratory per week.

Prerequisites: ENGR-205.

Credit, four hours.

**ENGR-340. SOLID STATE ELECTRONICS****3:3:0**

An introduction to basic semiconductor physics concepts and their application to the study of electronic and optoelectronic circuits. Applications to electronic and optoelectronic devices such as diodes, transistors, LED's detectors, photodiodes, and integrated circuits. Three (3) lectures per week.

Prerequisites: MTSC-351.

Credit, three hours.

**ASTRONOMY (ASTR) (22)****ASTR-101. DESCRIPTIVE ASTRONOMY I****3:2:2**

An introductory course designed primarily for the non-Science major. Topics include the motion of celestial bodies, historical development of astronomy, structure of solar system members, and stellar evolution. Two (2) lectures and one (1) two-hour laboratory per week.

Credit, three hours each.

**ASTR-102. DESCRIPTIVE ASTRONOMY II****3:2:2**

An introductory course designed primarily for the non-Science major. ASTR-102 expands upon the topics of planetary structure and the final stages of stellar evolution begun in 22-101. Black holes and pulsars are detailed as are the cosmological models. Two (2) lectures and one (1) two-hour laboratory per week.

Credit, three hours each.

**ASTR-201. PRACTICAL ASTRONOMY****4:3:3**

Basic training in observation with a large telescope. Time and celestial coordinate determinations. Preparation and use of star charts and catalogues. Three (3) lectures and one (1) three-hour laboratory per week.

Prerequisites: PHYS-202 or consent of the Instructor.

Credit, four hours.



**ASTR-205. PHOTOGRAPHY AND PHOTOMETRY****4:2:4**

Fundamentals of latent images, optical systems and methods, and principles and applications of radiation detectors. Photoelectric and photographic photometry. Two (2) lectures and four (4) laboratory hours per week.

Prerequisites: PHYS-202 or consent of the Instructor.

Credit, four hours.

**ASTR-301. CELESTIAL MECHANICS****3:3:0**

Application of the laws of motion to satellites, planets, and stars. The two (2), three (3), and many body problems. Orbits and their perturbations. Lunar theory: tides and precession. Three (3) lectures per week.

Prerequisites: MTSC-351, PHYS-314.

Credit, three hours.

**ASTR-302. ASTROPHYSICS****3:3:0**

The laws of radiation are applied to stars and nebulae to determine color classifications, temperatures, and luminosities. Spectrum analysis: constitution of stars and interstellar matter. Three (3) lectures per week.

Prerequisites: PHYS-361.

Credit, three hours.

## **THE HONORS PROGRAM AT DSU**

### **Program Mission**

The mission of the Honors Program at Delaware State University is to provide students with exceptional intellectual ability, motivation, and commitment with superior learning opportunities that challenge them to reach new levels of academic excellence in scholarship and creativity.

### **Program Vision**

As graduates of the D.S.U. Honors Program, our students will become the first choice of employers and graduate as well as professional schools because of their recognized achievements and potential for success.

### **The Program Goals**

The Honors Program at Delaware State University is designed to create and nurture a community of academically bright and talented students who value and are committed to intellectual pursuits. The Program Goals are:

1. To provide talented and motivated students with opportunities for intellectual growth and achievement in small, challenging classes that encourage active intellectual participation, discussion, and collaboration in the search for knowledge;
2. To enhance student skills for analytical/critical thinking, logical examination, and appraisal of ideas;
3. To enhance student skills for problem solving and decision making;
4. To enhance student skills for clear, precise, coherent, and persuasive oral and written communication;
5. To engage talented students in faculty-mentored research projects resulting in contributions of scholarly work to each student's chosen field of study; and
6. To prepare Honors students through experience with Department-based honors courses, inter-disciplinary colloquia and seminars, and independent study and research in preparation for graduate and professional schools.

### **The Curriculum**

The Honors curriculum consists of the following category of courses and activities:

- Interdisciplinary/multidisciplinary colloquia/seminars.
- Departmental Honors Courses including sections of General Education courses and/or Honors Independent Study.
- Faculty mentored research projects; and
- Honors senior thesis.

Honors classes are kept small to promote and stimulate discussion and critical thinking skill development.

Honor students may be eligible for the following:

- Honors student housing;
- Internship opportunities;
- Study Abroad Programs;
- Summer Research Experiences for Undergraduates and(REUs)

- Ronald E. McNair Baccalaureate Achievement Program.

Course Requirements consists of a minimum of eighteen (18) Honors credit hours with the following specifications:

- A minimum of six (6) credit hours of Interdisciplinary Honors Colloquia or Honors Independent Study Research.
- A minimum of twelve (12) Department-based Honors courses with no more than six (6) coming from a single Department.

### **Advisement**

Each student admitted into the Honors Program will be assigned an Advisor. The Advisor/Mentor will be a member of the Honors Council, an Honors Program faculty, or a faculty in the student's academic major.

**Special housing arrangements are available for Honors Students. More information will be provided upon acceptance into the Honors Program.**

### **Honors Day**

Once a year in the spring, the Honors Council, the governing body of the Honors Program, sponsors a two-part Honors Day event. On that day all students, whether they have participated in the Honors Program or not, are given the opportunity to present research papers and other creative works prepared under the sponsorship of faculty members, before audiences of students, faculty and staff.

An Honors Recognition Ceremony follows that evening, at which students who made presentations earlier in the day, those who participated in the colloquia that school year, those elected to Who's Who in American Universities and Colleges, those with the highest cumulative grade point averages in their respective disciplines, Departmental scholars, and members of the national honor societies are awarded certificates or otherwise recognized for their achievements. The Honors Day Program is designed to serve two (2) purposes:

1. To encourage achievers to continue to pursue excellence.
2. To motivate students who are not presently achieving Honors status to similarly strive for excellence in their academic pursuits.

### **Admission Criteria**

#### **Incoming Freshmen and Transfer Students**

Incoming freshmen and transfer students may apply for admission into the Honors Program at the same time they apply for admission to the University. Candidates for the Honors Program may apply by simply completing a short Honors program application form included in the University application package and posted on the Honors Program web site. A prospective honors student must have:

- A GPA of 3.25 or higher (on a 4.0 scale);
- Letters of Recommendation by two (2) high school or college Instructors;
- An essay explaining the desire to be admitted into the Program;
- Official high school and / or college transcripts; and,

- A list of academic and extracurricular achievements/awards.

### **Continuing Students**

A continuing student may apply to the Honors Council no later than the beginning of his or her junior year. The requirements for entry include:

- A minimum of 3.25 cumulative GPA;
- An unofficial D.S.U. transcript;
- Letters of Recommendation from two (2) DSU faculty members;
- A personal statement of reasons why the student wants to be admitted into the Honors Program;
- A list of academic and extracurricular achievements/awards.

### **Honors Certificate Requirements**

An Honors Program Student may earn an Honors Certificate if he or she:

- Completes a minimum of eighteen (18) hours of Honors credit with a minimum of **B** in each course.
- Maintains an overall cumulative GPA of 3.25 during the period he/she is in the program.
- Presents a paper or poster project on Honors Day each year after the freshmen year.
- Composes and successfully defends a senior research thesis
- Petitions to the Honors Council for certification status and completes an Honors Inventory Form by the end of the semester before the semester he/she graduates.

Honors students who are approved for certification will receive a certificate at Commencement and have their Honors status acknowledged in the Commencement book. Additionally they will have their Honors status designated in the official grade transcript and as part of their academic record.

## **HONORS (HONR)**

### **HONR-304. SPACE, THE FINAL FRONTIER**

**3:3:0**

This Honors seminar employs an interdisciplinary emphasis to comprehensively investigate humankind's efforts to explore outer space. The course approaches the topic from historical, technological, political and cultural perspectives. Students will gain information from class discussions, readings, videos and research assignments. We will also schedule a field trip if possible. Prerequisite: Prior acceptance into the Honors Program Credits, three hours.

### **HONR-340.RELIGION/ETHNICITY IN MEDIA AND THE ARTS**

**3:3:0**

The course reviews the History of all the Major Religions, then focuses on how the disciplines of History, Literature and Mass Communications integrate this material. Topics include novels about pilgrimage and spiritual quest (Hermann Hesse's Siddhartha, The Epic of Gilgamesh, Joseph Campbell's The Hero's Journey) and how the press covers papal visits, inter-religious conflict and local houses of worship. The course is an introduction to the academic study of religion in which students will survey the principal thinkers, theories, and methodologies that have shaped the interdisciplinary.

### **HONR-XXX. PROBLEMS OF DEVELOPING NATIONS**

**3:3:0**

Interdisciplinary study and discussion based on required reading in primary sources. Specific content determined periodically by the Honors Council. Each colloquium meets once a week for three hours throughout the semester. Credit, three hours.

# **SPECIAL PROGRAMS**

## **DIVISION OF ACADEMIC ENRICHMENT**

The Division of Academic Enrichment monitors and coordinates student retention efforts at Delaware State University. The office is designed to assist students with persisting toward an academic degree. Currently, Academic Support Services, Disabilities Services, Testing Office, Mentoring & Advising, and University Studies which consists of the University Seminar, and First Year Programs – the DSU Bridge (Program Jumpstart and Project Success) function as a coordinative unit under the Academic Enrichment program to provide services cooperatively to all students. Available support services include mentoring, supplemental instruction, tutoring, advising, computer lab participation, academic survival skill courses, seminars, workshops, and mini-courses. The function of the Academic Enrichment Program is to provide continuous identification, intervention, monitoring, and follow-up of all students in order to provide support and make their experience at Delaware State University a successful one.

### **Staying On Course (SOC) Program**

The Staying on Course (SOC) Program is mandatory for all students on academic probation as well as students who are readmitted from suspension. The program is coordinated by the Office of Academic Enrichment and provides students an opportunity to participate in a structured, semester-long program designed to help get them —~~back~~ “on-track” academically. Students are expected to attend academic success workshops and participate in general seminars on financial aid and registration. The Division of Academic Enrichment works cooperatively with the Dean of each School and College. Students are referred to the SOC program for the following reasons:

- Students who are on academic probation.
- Students who are readmitted to the University after being academically suspended.

### **STUDENTS ON ACADEMIC PROBATION**

Students on academic probation who are referred to participate in SOC are required to abide by the following policies:

1. Must sign a SOC contract.
2. Take Learning Strategies for Academic Success course (02-106).
3. May only enroll for 12-13 credits.

### **OUTCOMES**

The student must earn a 2.0 semester GPA. Failure to do so will result in academic suspension from the University. If the student attended the SOC program, the Dean of their School or College may give a waiver of suspension.

## **STUDENTS READMITTED ON PROBATION FROM SUSPENSION**

The students readmitted from suspension are identified through letters of readmission from the respective students' Dean. A copy of the letter is sent to the Coordinator of Student Support Services, the Office of Records, the Office of Student Accounts, the Office of Financial Aid as well as the Office of Residence Life. Students readmitted from suspension, who are referred to participate in SOC, are required to abide by the following policies:

1. Must sign a SOC contract.
2. Take Learning Strategies for Academic Success course (02-106).
3. If they have taken the class and passed with a grade of "C" or higher they must participate in the Staying on Course Class.
4. May only enroll for 12-13 credits.

## **OUTCOMES**

The student must complete nine (9) credits with a 2.0 semester GPA. Failure to do so will result in academic dismissal from the University.

### **Point of Contact**

Mrs. Karen C. Robinson  
Academic Support Center (ASC)  
(302) 857-7840  
[krobinson@desu.edu](mailto:krobinson@desu.edu)

### **A Message from the Director**

The Academic Support Center (ASC) is a unit within the Division of Academic Enrichment. The staff assists Delaware State University with the retention of students through its variety of academic support programs, services, and activities. In many cases, the ASC coordinates its efforts with other University offices such as Summer Bridge, Testing, Mentoring and Advising, and Career Services to insure a comprehensive set of services.

The ASC is here to help everyone. All a student has to do is ask for it! The ASC promotes free programs, services, and activities—all with the goal of increasing academic success. Successful students are encouraged to take on leadership roles within the ASC as tutors and supplemental Instructors.

The ASC offers activities that provide students with extensive academic assistance through individual and group tutoring, group study sessions, academic success and study skills classes and workshops, testing accommodations for eligible students with diagnosed learning disabilities, and general assistance and referral throughout the year. These programs and activities are designed to assist all students to enhance their academic performance while pursuing their degree programs. Please see further explanation of these services below.



### **ACADEMIC SUPPORT CENTER**

**WILLIAM C. JASON LIBRARY-2<sup>ND</sup> FLOOR**

**Dr. Cassandra C. Green, Director**

#### **Academic Enrichment Courses:**

**Cindy Seto-Friel, Academic Support Services Technical/Adjunct Coordinator**

**Main Office-Library Room 214 (302) 857-6385 cfriel@desu.edu**

**Courses include: *Learning Strategies for Academic Success, Reading Lab, and University Seminar.***

#### **Tutoring Center:**

**Jackye Fountain, Coordinator**

**Library Room 206, Office-Library 206A (302) 857-6389 jfountain@desu.edu**

**Students may sign up for a personal tutor for courses across the curriculum.**

**Tutors will schedule appointments in the library at the convenience of the student.**

#### **Office of Disabilities Services:**

**Office-Library Rooms 214 A&B (302) 857-6388**

**Students with documented learning or physical disabilities may request reasonable accommodations to address their specific needs. Students, who are struggling with understanding coursework while demonstrating solid effort, may ask for a screening, consultation, and/or referral for an in-depth evaluation. Students with temporary disabilities may also apply for services.**

#### **Staying-On-Course Program (SOC):**

**Karen Robinson, Coordinator**

**Office-Library Room 213 (302) 857-7840 krobinso@desu.edu**

**Students on Academic Probation or Readmitted Suspension are required to participate in academic enrichment activities that promote their return to Academic Good Standing.**

#### **Supplemental Instruction Program (SI):**

**Kenneth Hunt, Coordinator**

**Office-Library Room 212A (302) 857-6387 khunt@desu.edu**

**Supplemental Instruction (SI) offers weekly study sessions to students taking "historically" difficult courses.**

**SI participants meet with their leader and classmates outside of class to discuss challenging concepts and develop study strategies. They develop a better understanding of course content and learn how to effectively test themselves.**



**Drop-In Computer Lab:**

**Jackye Fountain, Computer Specialist**

**Library Rooms 205 and 206 (302) 857-6389 jfountain@desu.edu**

**Monday-Thursday 9:00 a.m.-9:00 p.m. & Friday 9:00 a.m.-3:00 p.m. (Hours subject to change.)**

**Students are required to have a current pass code issued by the Academic Computing Office in order to gain access to computers. The Coordinator serves as a resource for technical assistance, information, and study sessions.**

**Drop-In Mathematics Center:**

**Kenneth Hunt, Coordinator**

**Library Room 212 (302) 857-6387 khunt@desu.edu**

**Hours posted on door each semester.**

**Students may drop in for assistance with any Mathematics assignment. PLATO Math is available.**

**Drop-In Writing Center:**

**Jean Gilroy, Coordinator**

**Library Room 205, Office-Library Room 207 (302) 857-7540 jgilroy@desu.edu**

**Hours posted on door each semester.**

**Students may drop in for assistance with any writing assignment across the curriculum.**

**PLATO Writing is available.**

**The Academic Support Center is a unit within the Division of Academic Enrichment.**

## UNIVERSITY STUDIES (02)

University Studies courses are designed to enhance the students reading, learning strategies for academic success, and increase the speed of their reading.

### UNIVERSITY STUDIES (UNIV) (02)

#### UNIV-001. STUDYING TIPS AND TECHNIQUES

0:0:0

Studying Tips and Techniques is a non-credit, one hour workshop covering a variety of topics including note-taking skills, test-taking skills, and memory techniques.

Credit, none.

#### UNIV-0001. ENGLISH SUPPLEMENTAL INSTRUCTION

0:0:0

Supplemental Instruction is a university wide program that offers weekly study sessions to students taking —historically” difficult courses. Supplemental Instruction (SI) participants meet with their SI Leader and classmates outside of class to discuss challenging concepts and develop study strategies. They develop a better understanding of course content and learn how to effectively challenge themselves.

Credit, none.

#### UNIV-0026. MATHEMATICS SUPPLEMENTAL INSTRUCTION

0:0:0

Supplemental Instruction is a university wide program that offers weekly study sessions to students taking —historically” difficult courses. Supplemental Instruction (SI) participants meet with their SI Leader and classmates outside of class to discuss challenging concepts and develop study strategies. They develop a better understanding of course content and learn how to effectively challenge themselves.

Credit, none.

#### UNIV-0034. HISTORY SUPPLEMENTAL INSTRUCTION

0:0:0

Supplemental Instruction is a university wide program that offers weekly study sessions to students taking —historically” difficult courses. Supplemental Instruction (SI) participants meet with their SI Leader and classmates outside of class to discuss challenging concepts and develop study strategies. They develop a better understanding of course content and learn how to effectively challenge themselves.

Credit, none.

#### UNIV-0036. PSYCHOLOGY SUPPLEMENTAL INSTRUCTION

0:0:0

Supplemental Instruction is a university wide program that offers weekly study sessions to students taking —historically” difficult courses. Supplemental Instruction (SI) participants meet with their SI Leader and classmates outside of class to discuss challenging concepts and develop study strategies. They develop a better understanding of course content and learn how to effectively challenge themselves.

Credit, none.

#### UNIV-0037. SOCIOLOGY SUPPLEMENTAL INSTRUCTION

0:0:0

Supplemental Instruction is a university wide program that offers weekly study sessions to students taking —historically” difficult courses. Supplemental Instruction (SI) participants meet with their SI Leader and classmates outside of class to discuss challenging concepts and develop study strategies. They develop a better understanding of course content and learn how to effectively challenge themselves.

Credit, none.

#### UNIV-090. READING LAB

3:0:0

The course is designed to develop and strengthen students’ reading comprehension skills, vocabulary, and rate. Lectures, text, visual aids, tapes, and computer software will be utilized to improve techniques. Speed Reading Course, Learning Strategies for Academic Success, and University Studies for Undeclared Majors. Institutional credit. Credit, three hours. Credits do not count toward graduation.

**UNIV-091. STAYING ON COURSE****1:1:0**

–Staying On Course” is a mandatory support class for all students on academic probation, as well as students who are readmitted from suspension. However, this class is open to all students who wish to improve their learning/study skills. The objective of this course is to promote effective academic practices and social behaviors. The overall goal of the –Staying On Course” class is to retain and return students to good academic standing. Students enrolled in this one credit course have already completed the —Earning Strategies” course with a grade of “C” or better. (This one credit class does not count towards credit for graduation.) If the student on academic probation or readmitted suspension does not pass the class satisfactorily, he/she may be recommended for academic suspension or dismissal. The student must retake the class upon returning to the University.  
Credit, one hour.

**UNIV-106. LEARNING STRATEGIES FOR ACADEMIC SUCCESS****3:0:0**

The course covers a variety of topics including accelerative learning, learning styles, time management, memory techniques, textbook and lecture note-taking strategies, and test-taking skills. Organization will be stressed. Some sections are paired with specific major courses and are designed to improve strategies specifically related to achievement in that discipline. GPA credit.  
Credit, three hours.

**UNIV-191. UNIVERSITY SEMINAR I – UNDECLARED MAJORS****1:2:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.  
Credit, one hour.

**UNIV-192. UNIVERSITY SEMINAR II – UNDECLARED MAJORS****1:1:0**

University Seminar is a two-semester, General Education course sequence designed to provide students with the essentials for a smooth transition to college life and academic success. Academic skills will be developed. These skills include critical reading, thinking, listening, writing, speaking, and using the library, the internet, and word processing. Values clarification, coping with peer pressures, and the impact of a healthy lifestyle will be addressed. Opportunities will be provided for self-evaluation and growth in basic learning strategies as well as personal and career goals. Knowing the history of the University, feeling connected to the institution, and sharing a common educational experience with other freshmen are important goals of this course.  
Credit, one hour.

**UNIV-222. SPEED READING****2:0:0**

The course is designed to develop your reading speed and flexibility. It focuses on increasing your rate of reading and developing strategies for efficient reading. The goal of the course is to increase speed and comprehension.  
Credit toward GPA.  
Credit, two hours.

## **DISABILITIES SERVICES**

Delaware State University offers a variety of support services to students with learning and physical disabilities. These services are provided to help students make the best possible use of the University's comprehensive academic resources. Students are not enrolled in separate programs or courses, but are mainstreamed into the existing University structure. Classrooms and selected residence halls are accessible to mobility-impaired students.

The Office of Disabilities Services (currently part of the Division of Academic Enrichment) is committed to helping each student pursue a chosen field of study to the full measure of his/her ability. Staff members work to ensure that students with disabilities have an equal opportunity to pursue an education. Students with disabilities are encouraged to become active participants in the University community, and to develop a sense of independence that will help them gain the leading edge when entering the job market.

Students with disabilities are admitted through the same application process as students without disabilities. There are no separate admissions standards or procedures. Admissions Counselors are available to answer questions and provide recommendations.

Students with disabilities must submit recent, appropriate documentation to the Office of Disabilities Services before requesting accommodations. Recent documentation with supporting recommendations from a physician, clinical/school psychologist, Individualized Educational Program (IEP), or 504 Plan is required.

Students with documented disabilities may receive reasonable accommodations to address their particular needs. These accommodations may include, but are not limited to, reading, writing, and note taking services, time management and organizational skills training, arrangements for testing accommodations, and tutorial services.

Further information regarding support services for students with disabilities may be obtained by consulting the DSU Website or at (302) 857-6388.

## **MENTORING AND ADVISING**

The Office of Mentoring and Advising (OMA) is designed to ease the student's transition to University life and to enrich the quality of life for the student at Delaware State University. The ultimate goal is to increase student retention, from the freshman to senior year. To accomplish this, the OMA Staff assists in the coordination of the activities as follows:

### **Freshman and New Student Orientation**

The activities involve the orientation and registration of Freshmen and New Students, Transfers, Re-Admitted, and Special Students. During the summer months, intermittent orientation/registration sessions are held to allow students to take placement tests, meet with Academic Advisors to plan their schedules, handle financial aid concerns, and take care of payment responsibilities. In August and January, students participate in the "Student Transition Program." The program affords students an opportunity to be further oriented to the University community, meet key administrators and student leaders, receive information about various University programs and service, and register for classes (if the student did not attend the earlier Summer orientation/registration periods).

### **Mentoring Programs**

The activities of the University Seminar Peer Mentoring Program and the University Mentoring Program can enhance the bonding of the student to the University, improve retention, and ultimately contribute to the student becoming successful and productive. The University Seminar Peer Mentoring Program assigns a Peer Mentor to each student enrolled in the University Seminar I & II courses. The Peer Mentor, who is an upperclassman, assists with various transition-to-college and orientation activities. The University Mentoring Program matches interested freshmen (mentees) to administrators, faculty and staff (mentors) who assist in providing a supportive and nurturing experience for the student's personal, social and intellectual development.

### **Advising for Undeclared Majors**

The activities for academic advising provide services for the Undeclared Majors and Special population students. Academic advising is conducted during the New Student Orientations, Welcome Week, and Pre-Registration periods in the Fall and Spring. In addition, staff members are available throughout the year to address the concerns of the Undeclared Major and Special Population Student, as well as students who visit the Advisement Outreach Center.

### **Academic Early Warning Alert System**

The Academic Early Alert System is designed to facilitate ongoing communication between faculty, the Office of Mentoring and Advising and the Office of Academic Support Services for those students who are experiencing academic difficulty.

Staff members contact the students to offer assistance and to encourage the students to implement actions, which will foster their being successful in that particular course. The system has scheduled periodic assessments. However, faculty members are encouraged to use the system any time they feel that intervention is necessary.

## **THE OFFICE OF TESTING**

The Office of Testing provides testing services to DSU students, local colleges and universities, online programs and the surrounding community. The office administers exams that assess our customers' knowledge, skills, and abilities as they relate to higher education requirements and professional certifications by providing a variety of local and national testing opportunities. The Office of Testing maintains a comprehensive set of standards for administering paper-based and computer based examinations (IBT/CBT), as well as a compilation of useful operational guidelines outlined by the National College Testing Association (NCTA) and Consortium of College Testing Centers (CCTC). The office is the University's coordinating agent for establish and implementing guidelines for awarding credit-by-examination (CBE) such as CLEP, DANTES, and Challenge exams. The Office of Testing is committed to strive for excellence. The ultimate goal for the office is to be the premium testing location in the Tri-State area.  
<http://www.desu.edu/office-testing>

*If our customers are happy, we are happy!*

## **TRiO PROGRAM**

### **Ronald E. McNair Post-Baccalaureate Achievement Program**

One (1) of eight (8) Federally-funded TRiO Programs, the Ronald E. McNair Post-Baccalaureate Achievement Program seeks to effectively prepare low-income, first generation college students and students from groups that are underrepresented in graduated education for doctoral study. Students who participate in the program are provided with research opportunities, faculty mentors, and educational stipends. The program was named in honor of Dr. Ronald E. McNair, an African American astronaut, who died in the shuttle incident in 1986. The program maintains the spirit of its namesake by encouraging highly talented students to pursue advanced degrees.

## **DIVISION OF STUDENT AFFAIRS**

### **COUNSELING CENTER SERVICES**

**Individual and Group Counseling**  
**Personal Development Workshops**  
**Crisis Intervention**  
**Substance Abuse Counseling**  
**(Personal issues support)**  
**Peer Counseling Program**  
**Career Interest Inventories**  
**Veterans Affairs**

The Counseling Center is designed to assist the student population in utilizing the resources of the institution in order to maximize educational opportunities. It functions to aid students in eliminating the non-academic barriers, which might tend to interfere with the attainment of academic aspiration. The University Counseling Center offers students the opportunity to work with trained Counselors in order to explore and to resolve problems and situations that tend to impede academic, personal, social, or vocational adjustment of students.

Further information regarding counseling services for students may be obtained by contacting the Office of Counseling located in Room 123 of the Education and Humanities Building, or call (302) 857-7381.

### **CAREER SERVICES**

[www.desu.edu/special/cpp/](http://www.desu.edu/special/cpp/)

Career Services supports the mission and advancement of Delaware State University as a premier institution of higher learning. Career Services uses a systems approach in coordinating campus resources to meet student's needs, serves as a liaison for institutional and faculty support, facilitates professional development programs, and strengthens relationships within the community. Career Services creatively coordinates career-related programs and services consistent with the goals and objectives of Delaware State University to ensure internship and employment opportunities are closely aligned with student's coursework.

A staff of career development professionals shares knowledge of labor market trends and employment requirements with faculty and administrators to facilitate curricular development, skill inventorying, and student advising. These professionals use technological and practical resources to provide students with the talent to conduct job searches, to become proficient in effective interviewing and presentation, and to understand the fit between their competencies and occupational requirements. Students also gain marketable experience through collegiate activities, campus and community service, research projects, cooperative education, and internships to prepare them to manage their careers pre- and post-graduation.

During the academic year, more than 300 representatives from business and industry, government, not-for-profit organizations, graduate schools, and public/private school systems interview prospective graduates and underclassmen for permanent and seasonal positions. Career Services also maintains an interactive career reference library of over 5,000 volumes of occupational resources to provide students with models to optimize and integrate academic pursuits with career aspirations.



Normal hours of operation are Monday through Friday 8:30 a.m. to 4:30 p.m. However, office hours are flexible to meet the needs of Delaware State University customers. Career Services is located in MLK Student Center, Suite 333. Telephone (302) 857-6120, fax (302) 857-6123; Director, Robin Roberts, email: [rroberts@desu.edu](mailto:rroberts@desu.edu); Career Coach, Fred Cooke: [fcooke@desu.edu](mailto:fcooke@desu.edu); Assistant to the Director, Lisa Dumpson: [ldumpson@desu.edu](mailto:ldumpson@desu.edu).

## **OFFICE OF VETERANS AFFAIRS**

The Office of Veterans Affairs is located in Room 105 in the New Admin Building, staffed with a full-time coordinator is designed to provide the veteran/ military student/ dependent with educational, personal, career and other counseling assistance, and administrative services as needed. We primarily facilitate academic success and overall enhancement of each veterans University experience. All enrolled veterans receiving veteran's educational benefits must register through this office before the start of each semester.

## **ADULT AND CONTINUING EDUCATION**

Delaware State University's higher education opportunities in Dover, Sussex, and Wilmington include noncredit, professional development, certification programs as well as undergraduate programs.

Students and professionals are encouraged to continue their education in their major field of study and in broad fields of human knowledge. Both college credit and Continuing Education Units can be earned by our non-traditional students.

To further meet your needs, we offer a variety of formats from seminars, workshops, online noncredit professional development as well as traditional college credit courses.

Our state-of-the-art facilities, excellent curricula, faculty, adjunct faculty support, and new organizational structure have contributed to the development of new external programs designed to bring the University's resources into the local community.

### **Admissions Requirements**

Students seeking admission as transfer students (previously enrolled in another regionally accredited junior college or four-year institution), or as special students (non-degree seeking), or as part-time students (degree seeking students enrolled in less than twelve (12) semester hours) must submit an application for admission to Delaware State University prior to registration and remit the application fee.

Students seeking advanced status must submit official transcripts from all of their institutions for evaluation. Students should be prepared to show evidence of high school graduation or equivalent.

### **Credit Hour**

Academic work at Delaware State University is measured in semester hours of credit. A semester hour is equivalent to fifty (50) minutes of lecture work per week for one (1) six-teen (16) week semester. Students transferring credit from institutions that record credits in quarter hours or trimester hours will notice fewer semester hours when their credits are converted to semester hours.

Although a transferred course may satisfy a program requirement, the student is still responsible for completing the total number of credits required by the program to be eligible for graduation.

### **Concurrent Enrollment**

Delaware State University is part of a consortium involving both Delaware Technical and Community College and the University of Delaware. Students may complete many of the General Education Requirements through these other schools prior to entering this program. For specific information on registration and admission requirements, contact the Admission Office at either institution.

### **Registration**

Delaware State University publishes a schedule of degree course offerings each semester and summer session, which lists all day, evening, and extended credit courses. Students must complete registration during the published periods and pay the designated fees to be officially enrolled and receive credit for the course(s) to be taken.

In person registration is conducted at the Sussex and Wilmington offices or on the Dover campus (date specified in schedules). Students may also take advantage of the mail in registration by following the instructions in the schedule of classes. Students may also apply online at [www.desu.edu](http://www.desu.edu).

## **Financial Aid**

Candidates for admission interested in applying for financial aid should submit the Free Application for Federal Student Aid (FAFSA). The University has the following types of aid available for students who qualify: PELL Grants, Supplemental Educational Opportunity Grants (SEOG), College Work Study, Loans and Scholarships. Students enrolling for twelve (12) semester hours or more in a degree program may be eligible for scholarships, grants or loans if they meet all other criteria specified by the aid sought. For more information about scholarships, contact the Financial Aid Office.

## **ADULT AND CONTINUING EDUCATION (ACE) (98)**

### **ACE-103. CCNA I**

**0:0:0**

This 70 hour course introduces the OSI model, network topologies, IP addressing, and subnet masks, simple routing techniques, and basic switching terminology. Topics include the basic functions of the seven layers of the OSI model, different classes of IP addressing and subnetting, and router login scripts. Upon completion, students should be able to list the key internetworking functions of the OSI Networking Layer and how they are performed in a variety of router types.

Credit, none.

### **ACE-104. IT ESSENTIALS**

**0:0:0**

This is a current and comprehensive 64-hour course on configuring, diagnosing, and repairing microcomputers and associated technologies. Topics covered include how computers work, how software and hardware work together, the systems board, understanding and managing memory, floppy disk and hard disk drives, installing and supporting disk drives, troubleshooting fundamentals, supporting I/O devices, and multi-media technology. Completion of this course will assist the student in preparing to pass the A+ certification exams and succeed in the PC repair industry. No electronic experience is assumed or required.

Credit, none.

### **ACE-203. CCNA II**

**0:0:0**

This 70 hour course introduces router configurations, router protocols, switching methods, and hub terminology. Topics include the basic flow control methods, router startup commands, manipulation of router configuration files, and IP and data link addressing. Upon completion, students should be able to prepare the initial router configuration files, as well as enable, verify, and configure IP addresses.

Prerequisites: 98-103 (CCNA I).

Credit, none.

### **ACE-204. CCNA III**

**0:0:0**

This 70 hour course introduces advanced router configurations and advanced LAN switching theory and design. Topics include router elements and operations, adding routing protocols to a configuration, monitoring operations on the router, LAN segmentation, and advanced switching methods. Upon completion, students should be able to describe LAN and network segmentation with bridges, routers and switches, and describe a virtual LAN.

Prerequisites: 98-203 (CCNA II).

Credit, none.

### **ACE-205. CCNA IV**

**0:0:0**

This 70 hour course introduces WAN theory and design, WAN technology, PPP, Frame Relay, ISDN, and additional case studies. Topics include network congestion problems, TCP/IP transport and network layer protocols, advanced routing and switching configuration, ISDN protocols, PPP encapsulation operations on a router. Upon completion, students should be able to provide solutions for network routing problems, identify ISDN protocols, channels, and function groups, describe the Spanning Tree protocol.

Prerequisites: 98-204 (CCNA III).

Credit, none.

**ACE-206. NETWORK SECURITY****0:0:0**

Network Security will teach students to design and implement security solutions that will reduce the risk of revenue loss and vulnerability. As with existing courses offered by the Cisco Networking Academy, the focus of the course will combine hands-on experience, instructor-led and e-learning for students. This 70-hour course will be an introduction to network security and overall security processes. There will be particular emphasis on: Security policy design and management; Security technologies, products and solutions; Firewall and secure router design, installation, configuration, and maintenance; AAA implementation using routers and firewalls; and VPN implementation using routers and firewalls.

Credit, none.

**ACE-400. GMAT COMPUTERIZED PREP TEST****0:0:0**

GMAT Computerized Prep Test consists of diagnostic, untimed, and full-length, fully-adaptive practice exams for the GMAT. It also contains an Analytical Writing Skill Builder.

Credit, none.

**ACE-401. GRE COMPUTERIZED PREP TEST****0:0:0**

The GRE prep course is designed to provide complete preparation for the graduate school entrance examination. Course components are inclusive of a thorough subject review, problem-solving, timed quizzes, practice tests, skill review exercises, and actual test simulation. Each course is designed based on a six-step comprehensive approach.

1) Diagnostic Testing and Assessment, 2) Basic Skills Review, 3) In-Class Problem-Solving, Concepts, and Strategies, 4) Practice Test Reinforcement, 5) Final Exam, Assessment Report, and Review, 6) Personal Study Plan.

Credit, none.

**ACE-403. GMAT PREP****0:0:0**

The GMAT exam prep course is designed to provide complete preparation for the graduate school entrance examination. Course components are inclusive of a thorough subject review, problem-solving, timed quizzes, practice tests, skill review exercises, and actual test simulation. Each course is designed based on a six-step comprehensive approach. 1) Diagnostic Testing and Assessment, 2) Basic Skills Review, 3) In-Class Problem-Solving, Concepts, and Strategies, 4) Practice Test Reinforcement, 5) Final Exam, Assessment Report, and Review, 6) Personal Study Plan.

Credit, none.

**ACE-404. GRE PREP****0:0:0**

GRE Computerized Prep Test consists of diagnostic, untimed, Analytical Writing Skill Building and full-length, fully-adaptive exams for the GRE.

Credit, none.

**ACE-405. LSAT PREP****0:0:0**

The LSAT exam prep course is designed to provide complete preparation for the graduate school entrance examination. Course components are inclusive of a thorough subject review, problem-solving, timed quizzes, practice tests, skill review exercises, and actual test simulation. Each course is designed based on a six-step comprehensive approach. 1) Diagnostic Testing and Assessment, 2) Basic Skills Review, 3) In-Class Problem-Solving, Concepts and Strategies, 4) Practice Test Reinforcement, 5) Final Exam, Assessment Report, and Review, 6) Personal Study Plan.

Credit, none.

**ACE-406. MCAT PREP****0:0:0**

The MCAT exam prep course is designed to provide complete preparation for the graduate school entrance examination. Course components are inclusive of a thorough subject review, problem-solving, timed quizzes, practice tests, skill review exercises, and actual test simulation. Each course is designed based on a six-step comprehensive approach. 1) Diagnostic Testing and Assessment, 2) Basic Skills Review, 3) In-Class Problem-Solving, Concepts and Strategies, 4) Practice Test Reinforcement, 5) Final Exam, Assessment Report, and Review, 6) Personal Study Plan.

Credit, none.

**ACE-500. ONLINE: BASIC COMPUTER SKILLS****0:0:0**

This course bundle provides a solid foundation on which to build knowledge of and skills with computers and the Internet. This basic computer skills series provides exposure to various tools, features, and options in Windows 98, XP, Vista, and the new Windows 7. Designed for the computer novice, these courses are perfect for individuals wishing to stay competitive in today's technology based job market.

Credit, none.

**ACE-936. PHARMACY TECHNICIAN TRAINING PROGRAM****0:0:0**

This comprehensive 50 hour course will prepare students to enter the pharmacy field and take the Pharmacy Technician Certification Board's PTCB exam. Technicians work in hospitals, home infusion pharmacies, community pharmacies and other health care settings – working under the supervision of a registered pharmacist. Course content includes medical terminology specific to the pharmacy, reading and interpreting prescriptions and defining drugs by generic and brand names. Students will learn dosage calculations, IV flow rates, drug compounding, dose conversions, dispensing of prescriptions, inventory control and billing and reimbursement.

Credit, none.

## NEW CASTLE COUNTY PROGRAMS

### **Delaware State University – Wilmington Site**

Serena Y. Parker, Director

621 N. Market Street

Wilmington, DE 19801

(302) 254-5334

(302) 254-5350 fax

[sfranklin@desu.edu](mailto:sfranklin@desu.edu)

Since 1990, Delaware State University has enriched adult learners with career enhancing programs at our Wilmington Site. We are excited about serving a broader student population while we continue to provide quality education and training to the community.

### **The Wilmington Site Offers:**

### **The Wilmington Site only offers Graduate Programs.**

#### **Connected Degree Programs**

Delaware State University in collaboration with Delaware Technical & Community College, offers the opportunity for DTCC students who've earned an Associate Degree to complete their Bachelors Degree in a convenient accelerated format. Details on the connected degree courses offered at the Wilmington Site are provided under the Evening Accelerated Degree Programs link below.

#### **Evening Accelerated Undergraduate Degree Programs**

The Wilmington site offers evening accelerated programs designed to assist adults who have **completed** an Associates Degree in a field and would like to complete a bachelor's degree in the same field. Praxis I completion is a requirement to enter Early Childhood and Elementary Education programs.

- Social Work
- General Management
- General Management (Accounting Concentration)
- Early Childhood Education (Birth to Grade 2)
- Elementary Education (K-6)
- Criminal Justice

*\* Additional courses may be needed to complete the accelerated degree if transferring credits from an institution other than DTCC.*

## **Evening Accelerated Graduate Degree Programs**

- Master of Business Administration
- Master of Social Work\*
- Master of Sports Administration

*\* The Master of Social Work is offered in the evenings in a Full Term format. Students entering the Master of Social Work program with a Bachelors degree in Social Work can apply for advanced standing and complete the program in one year.*

### **Contact Information**

#### **Director**

Serena Y. Parker  
Phone: 302.254.5334  
Fax: 302.254.5350  
sfranklin@desu.edu

#### **Administrative Secretary**

Theresa Bullock

&

#### **Site Coordinator**

Donald Evans

**Phone:** 302.254.5340

**Fax:** 302.254.5350

tbullock@desu.edu

devans@desu.edu

#### **Office Hours**

Monday through Thursday:

9:00 am – 6:00 pm

Friday:

9:00 am – 4:00 pm



## **SUSSEX COUNTY PROGRAMS**

### **Delaware State University – Sussex County**

#### **William A. Carter Partnership Center**

P. O. Box 660  
Georgetown, DE 19947  
(302) 856-5397  
(302) 856-5388 fax

Delaware State University – Sussex County provides structured course sequences that permit non-traditional students to complete degree requirements. Baccalaureate degree completion sequences are available for Early Care Education, Social Work, and Criminal Justice. Additional degree completions sequences for Elementary Education, Biotechnology, and Agribusiness are being developed. Master's degree completion sequences are in place for Biology, Curriculum and Instruction and Special Education, and for Instruction and Supervision accreditation. Master's and Doctoral degrees in Educational Leadership are expected to be offered soon.

For those academic areas for which the DSU-Sussex location does not offer a degree completion sequence, students may complete their General Education Requirements at the Sussex location and matriculate to the main campus.

DSU-Sussex County strives to provide flexibility and options for southern Delaware residents to meet their educational and professional development needs. Our degree completion programs offer the options of enrolling in courses at the main campus in Dover or in Sussex or completing coursework in both locations.

Students may enroll on a part-time, full-time, or non-degree seeking status. Courses are scheduled on weekday evenings and some weekends. Some advanced degree courses are offered in compressed eight- week sessions.



**CENTER FOR TEACHING & LEARNING:  
Linking Professional Development to University Improvement**

The Center for Teaching & Learning (CTL) mission, adopted and reviewed October 1, 2008 is to provide ongoing faculty support services in an effort to strengthen and support academic programs.

**Goal 1:** Provide opportunities for Delaware State University faculty to strengthen teaching efforts through research based methodologies, professional development experiences, advanced studies and assessment practices that lead to improved student learning.

**Goal 2:** Provide support for the maintaining and seeking of accreditations and certifications of university programs.

**Services offered:**

- Tuition Reimbursement
- Conference/Professional Meeting Travel
- Mini Grant Research Competition for Faculty
- Classroom Observations and Consultation Services
- Workshops and professional development forums on a variety of topics related to improvement in teaching strategies and methods for faculty.

Services of the CTL are supported by Title III federal funding.

## **HEALTH PROFESSIONS ADVISING PROGRAM**

Delaware State University provides an advisement program for students interested in medical school or other health professions schools (dentistry, and podiatry, etc.). The Director of the Health Professions Program is Dr. Cynthia van Golen, Assistant Professor of Biological Science. Seminars, advising, and information are provided by the Health Professions Advising Program as well as overseeing the Student Health Professions Club that coordinates trips to visit professional schools. Dr. van Golen is located in Luna I. Mishoe Science Center South Building, Room SCS 112, and can be reached at (302) 857-7463.

Students interested in the Health Professions Advising Program must register with Dr. van Golen to receive communications about activities and information. It is recommended the student join the Health Professions Group no later than the end of their Freshman year. Dr. van Golen will work with students and their Departmental Advisors on an individual basis in planning their curriculum and developing a strategy for their intended career. The guidance is intended for students who are pursuing a major in any University Department, and who wish to meet the minimum requirements necessary for admission to a health professions school.

**STUDENTS CAN BE ANY MAJOR IN THE UNIVERSITY; HOWEVER, THEY MUST MEET THE MEDICAL OR OTHER PROFESSIONAL SCHOOL COURSE REQUIREMENTS. THEIR ADVISEMENT IS IN THEIR MAJOR DEPARTMENT FROM A FACULTY ADVISOR AND THEY RECEIVE INFORMATION FOR CAREER PLANNING FROM THE HEALTH PROFESSIONS PROGRAM.**

## **OFFICE OF INTERNATIONAL AFFAIRS**

As the central office responsible for coordinating the University's international activity, the Office of International Affairs has the mission of integrating a global perspective into the teaching, research, and service programs of the institution. A critical part of the mission is to forge mutually beneficial international partnerships with higher education institutions, including a wide-range of public and private sector agencies and organizations. The Office of International Affairs also coordinates the Exchange Visitors Program to assist Academic Deans' respective Departmental goals and objectives to build and strengthen niche teaching and research capability in highly specialized areas that are globally significant. The University has officially invited more than thirty (30) J1 Visa research professors, post-doctoral fellows, research scholars, student non-degree and short-term scholars from more than fifteen (15) countries from our partnering institutions. At the request of the Academic Deans, the Office of International Affairs facilitates, in part, and coordinates Fulbright Programs and other international activities that strengthen the University's research infrastructure and intellectual posture.

The University has officially invited more than thirty (30) J1 Visa research professors, post-doctoral fellows, research scholars, and short-term scholars from more than fifteen (15) countries from our partnering institutions. At the request of the Academic Deans, the Office of International Affairs facilitates, in part, and coordinates Fulbright Programs and other international activities that strengthen the University's research infrastructure and intellectual posture.

Under the Office of International Affairs, the Office of International Student Services (OISS) provides assistance to all international students with nonimmigrant status (F1 Visa). The University enrolls more than 120 international students on F-1 Visas from more than forty countries each academic year. The OISS is committed to ensuring that international students have a rewarding experience as they pursue their academic and cultural goals at Delaware State University.

The OISS offers the following services to international students:

- Financial, academic, social, and personal matters
- Advising on immigration rules, regulations, and responsibilities
- Campus and community activities
- Cultural concerns
- Preparation and processing of immigration documents
- An orientation for new international students
- Assist faculty, staff, and student organizations to plan and organize international experiences such as International Education and International Students Association Week
- Medical insurance information for international students and exchange/study abroad participants

The OISS assists students who plan to study abroad with selection and application procedures; coordinates study abroad programs; and works closely with affiliated study abroad and service-learning providers to ensure that students who seek an international experience at the undergraduate and graduate levels are provided with options to meet their financial, academic and professional goals and objectives. Students who spend time and study in another country will be better prepared for graduate school and gainful employment in the global economy.

Delaware State University currently has the following formal international partnerships:

### **International Partners**

- University of Caen, France,
- University of Cuernavaca, Mexico,

- Centro De Idiomas Del Surete, Mexico
- University of Guanajuato, Mexico
- University of Namibia, Southern Africa
- Polytechnic of Namibia, Southern Africa
- University of Cheikh Anta Diop, Senegal, West Africa.
- University of Panama, Panama City, Panama
- Jilin University, Changchung, China,
- Hefei University of Technology, Heifi, China
- Beijing Language and Culture University, Beijing, China
- Yantai University, China
- Hunan Normal University, Beijing, China
- Beijing Sport University, Beijing, China
- Jishou University, Jishou, China
- Zhejiang University City College, Hangzhou, Zhejiang, China
- Dalian University of Technology, Dalian, Liaoning, China
- China Association for International Science and Technology Cooperation
- The University of The West Indies, Trinidad and Tobago
- International University of Business Agriculture and Technology, Dhaka Bangladesh
- University of Nis, Serbia and Montenegro
- University of Novi Sad, Serbia and Montenegro
- University of Belgrade, Serbia and Montenegro
- University of Uyo, Akwa Ibom State Nigeria
- Ain Shams University, Cairo, Egypt
- Pontifica Universidad Católica Madre y Maestra, Dominican Republic
- Autonomous National University of Honduras
- The Silesian University, Katowice, Poland
- The American University in London, United Kingdom
- University of Liberia, Monrovia, Liberia
- University of Nouakchott, Mauritania
- Makerere University (Institute of Public Health), Kampala, Uganda
- Vietnam National University, Hanoi, Vietnam
- Heart Trust/Vocational Training and Development Institute, Kingston, Jamaica
- University of Calgary, Italy
- Loyola College (Autonomous) affiliated to the University of Madras, India
- Pan American Health Organization/World Health Organization

## **Staff**

**Dr. Fengshan Liu, Interim,** Assistant Vice President for International Affairs  
(302) 857-6421, [flu@desu.edu](mailto:flu@desu.edu)

**Mrs. Candace Alphonso-Moore,** Director of International Student Services & Study Abroad  
Coordinator  
(302) 857-6474, [cmoore@desu.edu](mailto:cmoore@desu.edu)

**Mrs. Latasha Wilson Daniels,** Secretary/ARO  
(302) 857-6421, [lwilson@desu.edu](mailto:lwilson@desu.edu)

## **PRESIDENTS OF THE UNIVERSITY**

Mr. Wesley P. Webb  
1891-1895

Mr. William C. Jason  
1895-1923

Mr. Richard S. Grossley  
1923-1942

Mr. Howard D. Gregg  
1942-1949

Mr. Oscar J. Chapman  
1949-1951

Mr. Maurice E. Thomasson  
*Acting President*  
1951-1953

Mr. Jerome H. Holland  
1953-1960

Dr. Luna I. Mishoe  
1960-1987

Dr. William B. DeLauder  
1987-2003

Dr. Allen L. Sessoms  
2003-2008

Dr. Claibourne D. Smith  
*Acting President*  
2008-2009

Dr. Harry L. Williams  
President  
2009-Present

## **Faculty Credentials**

<b>Adegoke</b>	<b>Mopelola</b>	<b>Human Ecology</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Family and Consumer Science Education</b>	<b>Iowa State University</b>
<b>Adepoju</b>	<b>Joseph</b>	<b>Nursing</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Education</b>	<b>University of Pennsylvania</b>
<b>Agostino</b>	<b>Margaret-Rose</b>	<b>Nursing</b>	<b>Assistant Professor</b>	<b>D.N.P.</b>	<b>Nursing</b>	<b>Johns Hopkins University</b>
<b>Akoto</b>	<b>Edward</b>	<b>Business Administration</b>	<b>Visiting Assistant Professor</b>	<b>Ph.D.</b>	<b>Management</b>	<b>Jackson State University</b>
<b>Aleong</b>	<b>Chandra</b>	<b>Education</b>	<b>Associate Professor</b>	<b>Ed.D.</b>	<b>Higher Education Administration</b>	<b>University of Pennsylvania</b>
<b>Allen (Azibo)</b>	<b>Donald (Daudi)</b>	<b>Psychology</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Psychology</b>	<b>Washington University</b>
<b>Amoako</b>	<b>Joe</b>	<b>English and Foreign Languages</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Linguistics</b>	<b>University of Florida</b>
<b>Anakwe</b>	<b>Bridget</b>	<b>Accounting, Economics and Finance</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Accounting</b>	<b>Rutgers, The State University of New Jersey</b>
<b>Areke</b>	<b>Olaniyi</b>	<b>Mass Communications</b>	<b>Visiting Assistant Professor</b>	<b>M.F.A.</b>	<b>Film</b>	<b>Howard University</b>
<b>Attoh</b>	<b>Prince</b>	<b>Education</b>	<b>Associate Professor</b>	<b>Ed.D.</b>	<b>Higher Education</b>	<b>Nova-Southeastern University</b>
<b>Austin*</b>	<b>John</b>	<b>Social Work</b>	<b>Professor</b>	<b>D.S.W.</b>	<b>Social Work</b>	<b>Virginia Commonwealth University</b>
<b>Awadzi</b>	<b>Winston</b>	<b>Business Administration</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Management</b>	<b>Louisiana State University</b>
<b>Balogun</b>	<b>Fidelis</b>	<b>English and Foreign Languages</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Slavic Languages and Literature</b>	<b>University of Illinois at Urbana-Champaign</b>
<b>Banerjee</b>	<b>Padmini</b>	<b>Psychology</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Human Development and Family Studies</b>	<b>The Pennsylvania State University - University Park</b>
<b>Barczewski</b>	<b>Richard</b>	<b>Agriculture and Natural Resources</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Animal Science</b>	<b>University of Maryland College Park</b>

Beaumont	Hazel Bradshaw	Art	Associate Professor	Ph.D.	Art Education	The Ohio State University
Becker	Donald	Art	Associate Professor	Ed.D.	Educational Leadership	University of Delaware
Belcher	Natalie	English and Foreign Languages	Instructor	M.A.	Education	Delaware State University
Besong	Samuel	Human Ecology	Associate Professor	Ph.D.	Animal Science	University of Kentucky
Beugre"	Constant	Business Administration	Professor	Ph.D.	Management	Rensselaer Polytechnic Institute
Bieker	Richard	Accounting, Economics and Finance	Professor	Ph.D.	Economics	University of Delaware
Biswas	Anjan	Mathematical Sciences	Associate Professor	Ph.D.	Mathematics	University of New Mexico
Blade	Janet	Sport Management	Associate Professor	Ed.D.	Sport Management	United States Sports Academy
Blake	Andrew	English and Foreign Languages	Assistant Professor	Ed.D.	Inovation and Leadership	Wilmington University
Blay	Kofi	Sociology and Criminal Justice	Professor	Ph.D.	Sociology	University of Wisconsin - Madison
Boukari	Hacene	Physics and Pre-Engineering	Associate Professor	Ph.D.	Chemical Physics	University of Maryland College Park
Broderick	Cyril	Agriculture and Natural Resources	Associate Professor	Ph.D.	Plant Science	University of New Hampshire
Brown	Donald	English and Foreign Languages	Associate Professor	Ph.D.	English	Indiana University of Pennsylvania
Brown	Ernestine	Social Work	Assistant Professor	M.S.W.	Social Work	Delaware State University
Carvalho-Grevious	Millicent	Social Work	Associate Professor	Ph.D.	Social Work	Bryn Mawr College
Casson*	Michael	Accounting, Economics and Finance	Associate Professor	Ph.D.	Agriculture and Resource Economics	University of Connecticut
Cawley	Alexa	History, Political Science and Philosophy	Associate Professor	Ph.D.	History	American University



Chen	Li	Sport Management	Professor	D.P.E.	Physical Education	Springfield College
Cheng	Yinghong	History, Political Science and Philosophy	Associate Professor	Ph.D.	History	Northeastern University
Chowhury	Abhinadam	Mathematical Sciences	Visiting Assistant Professor	Ph.D.	Mathematics	University of Louisiana at Lafayette
Christopher	Jan	Accounting, Economics and Finance	Associate Professor	Ph.D.	Economics	Howard University
Clark	Cecil	Education	Associate Professor	Ed.D.	Educational Leadership	Argosy University
Clark	Norma	Education	Associate Professor	Ph.D.	Educational Research and Evaluation	Virginia Polytechnic Institute and State University
Clausell	Maggie	Human Ecology	Associate Professor	Ph.D.	Nutrition	Cornell University
Colbert	William	Art	Assistant Professor	M.F.A.	Art	University of Delaware
Cordrey	Cara	Public and Allied Health Sciences	Visiting Instructor	M.S.	Exercise and Sports Sciences	Florida International University
Cornwall	Everard	Education	Assistant Professor	Ph.D.	Vocational Education	University of Minnesota
Craven	Nena	Sociology and Criminal Justice	Visiting Assistant Professor	M.A.	Sociology	University of Delaware
Crawford	Lori	Art	Associate Professor	M.F.A.	Computer Art	Savannah College of Art and Design
Das	Nandita	Accounting, Economics and Finance	Associate Professor	Ph.D.	Economics	West Virginia University
Davis	Effie (Harris)	Nursing	Visiting Instructor	M.S.	Nursing	Delaware State University

<b>Davis</b>	<b>LaPointe</b>	<b>Music</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Music</b>	<b>The Ohio State University</b>
<b>Davis</b>	<b>Leonard</b>	<b>Biological Sciences</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Biochemistry</b>	<b>University of Illinois at Medical Center - Chicago</b>
<b>Dhillon</b>	<b>Harbinder</b>	<b>Biological Sciences</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Biochemistry</b>	<b>Rutgers, The State University of New Jersey</b>
<b>Dillard</b>	<b>Dorothy</b>	<b>Sociology and Criminal Justice</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Sociology</b>	<b>University of Delaware</b>
<b>DiMaria</b>	<b>Peter</b>	<b>Chemistry</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Biochemistry</b>	<b>Temple University</b>
<b>Diop</b>	<b>Abdoul</b>	<b>English and Foreign Languages</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Linguistics</b>	<b>University of Illinois at Urbana-Champaign</b>
<b>Dujari</b>	<b>Anuradha</b>	<b>Education</b>	<b>Professor</b>	<b>Ed.D.</b>	<b>Educational Innovation and Leadership</b>	<b>Wilmington University</b>
<b>Edwards</b>	<b>Francine</b>	<b>Mass Communications</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Communication and Culture</b>	<b>Howard University</b>
<b>Edwards-Omelawa.</b>	<b>Nicola</b>	<b>Mathematical Sciences</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Education</b>	<b>University of Delaware</b>
<b>Edziah</b>	<b>Raymond</b>	<b>Physics and Pre-Engineering</b>	<b>Visiting Assistant Professor</b>	<b>Ph.D.</b>	<b>Applied Physics</b>	<b>University of Maryland Baltimore County</b>
<b>Elavarthi</b>	<b>Sathya</b>	<b>Agriculture and Natural Resources</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Plant Science</b>	<b>Oklahoma State University</b>
<b>Evans-Mitchell</b>	<b>Stephanie</b>	<b>Nursing</b>	<b>Assistant Professor</b>	<b>Ed.D.</b>	<b>Educational Leadership</b>	<b>Delaware State University</b>

<b>Falodun</b>	<b>Joseph</b>	<b>Education</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Education</b>	<b>University of Pennsylvania</b>
<b>Fondong</b>	<b>Vincent</b>	<b>Biological Sciences</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Epidemiology</b>	<b>Cornell University</b>
<b>Fox</b>	<b>Dewayne</b>	<b>Agriculture and Natural Resources</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Zoology</b>	<b>North Carolina State University</b>
<b>Fralinger</b>	<b>Barbara</b>	<b>Public and Allied Health Sciences</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Health Sciences</b>	<b>Seton Hall University</b>
<b>Friedland</b>	<b>Billie</b>	<b>Education</b>	<b>Associate Professor</b>	<b>Ed.D.</b>	<b>Special Education</b>	<b>West Virginia University</b>
<b>Friel</b>	<b>Brian</b>	<b>Psychology</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Experimental Psychology</b>	<b>Kansas State University</b>
<b>Gazda</b>	<b>Frank</b>	<b>Music</b>	<b>Associate Professor</b>	<b>D.M.A.</b>	<b>Music</b>	<b>University of Maryland College Park</b>
<b>George</b>	<b>Tina</b>	<b>English and Foreign Languages</b>	<b>Lecturer</b>	<b>M.A.</b>	<b>Teaching English as a Second Language</b>	<b>University of Delaware</b>
<b>German</b>	<b>Myna</b>	<b>Mass Communications</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Literature and Philosophy in Communication</b>	<b>University of South Africa at Pretoria</b>
<b>Gibson</b>	<b>Paul</b>	<b>Mathematical Sciences</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Applied Mathematics and Mathematical Physics</b>	<b>Delaware State University</b>
<b>Giesecke</b>	<b>Carol</b>	<b>Human Ecology</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Nutrition</b>	<b>The Pennsylvania State University - University Park</b>
<b>Gomia</b>	<b>Victor</b>	<b>English and Foreign Languages</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Post Colonial Literature</b>	<b>University of Yaoundé, Cameroon</b>
<b>Goudy</b>	<b>Andrew</b>	<b>Chemistry</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Physical Chemistry</b>	<b>University of Pittsburgh</b>

<b>Govindarajulu</b>	<b>Chittibabu</b>	<b>Business Administration</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Management Information Systems</b>	<b>University of Mississippi</b>
<b>Guo</b>	<b>Mingxin</b>	<b>Agriculture and Natural Resources</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Soil Science</b>	<b>The Pennsylvania State University - University Park</b>
<b>Gwanmesia</b>	<b>Gabriel</b>	<b>Physics and Pre-Engineering</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Earth and Space Sciences</b>	<b>State University of New York at Stony Brook</b>
<b>Hagos</b>	<b>Asgede</b>	<b>Mass Communications</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>African Studies</b>	<b>Howard University</b>
<b>Harrington</b>	<b>Melissa</b>	<b>Biological Sciences</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Neuroscience</b>	<b>Stanford University</b>
<b>Harrison</b>	<b>Larry</b>	<b>Education</b>	<b>Assistant Professor</b>	<b>Ed.D.</b>	<b>Curriculum and Instruction</b>	<b>University of Maryland College Park</b>
<b>Heckscher</b>	<b>Christopher</b>	<b>Agriculture and Natural Resources</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Entomology and Wildlife Ecology</b>	<b>University of Delaware</b>
<b>Helmy</b>	<b>Ehsan</b>	<b>Physics and Pre-Engineering</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Atomic and Nuclear Physics</b>	<b>University of California at Los Angeles</b>
<b>Helmy</b>	<b>Fatma</b>	<b>Biological Sciences</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Biological Chemistry</b>	<b>Tulane University</b>
<b>Hill</b>	<b>Janet</b>	<b>Education</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Curriculum and Instruction</b>	<b>Kent State University</b>
<b>Hoff</b>	<b>Samuel</b>	<b>History, Political Science and Philosophy</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Political Science</b>	<b>State University of New York at Stony Brook</b>
<b>Hoffman</b>	<b>Heidi</b>	<b>Psychology</b>	<b>Instructor</b>	<b>Ed.D.</b>	<b>Higher Education</b>	<b>University of California at Los Angeles</b>
<b>Hoffman</b>	<b>Patrick</b>	<b>Music</b>	<b>Associate Professor</b>	<b>D.M.A.</b>	<b>Music</b>	<b>University of Georgia</b>

<b>Holmstrup</b>	<b>Michael</b>	<b>Public and Allied Health Sciences</b>	<b>Instructor</b>	<b>M.S.</b>	<b>Exercise Science</b>	<b>East Stroudsburg University of Pennsylvania</b>
<b>Holness</b>	<b>Gary</b>	<b>Computer and Information Sciences</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Computer Science</b>	<b>University of Massachusetts Amherst</b>
<b>Issa</b>	<b>Jahi</b>	<b>History, Political Science and Philosophy</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>History</b>	<b>Howard University</b>
<b>Ivey</b>	<b>Stan</b>	<b>Biological Sciences</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Biology</b>	<b>University of Denver</b>
<b>Jackson</b>	<b>Erica</b>	<b>Public and Allied Health Sciences</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Exercise Science</b>	<b>University of Georgia</b>
<b>Johnson</b>	<b>Darin</b>	<b>Mathematical Sciences</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Mathematics</b>	<b>Southern Illinois University at Carbondale</b>
<b>Johnson</b>	<b>Yvonne</b>	<b>Music</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Music Education</b>	<b>The Ohio State University</b>
<b>Jordan</b>	<b>Tina</b>	<b>Social Work</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Social Work</b>	<b>Morgan State University</b>
<b>Kalavacharla</b>	<b>Venugopal</b>	<b>Agriculture and Natural Resources</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Plant Science</b>	<b>North Dakota State University</b>
<b>Katugampola</b>	<b>Udita</b>	<b>Mathematical Sciences</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Applied Mathematics</b>	<b>Southern Illinois University at Carbondale</b>
<b>Katz</b>	<b>Michael</b>	<b>Accounting, Economics and Finance</b>	<b>Professor</b>	<b>J.D.</b>	<b>Law</b>	<b>Widener University</b>
<b>Khan</b>	<b>Al-Sameen</b>	<b>Physics and Pre-Engineering</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Electrical Engineering</b>	<b>University of Delaware</b>

Kibria	Gholam	Education	Professor	Ph.D.	Education	Southern Illinois University at Carbondale
Kim	Daeryong	Business Administration	Professor	Ph.D.	Management Information Systems	University of Mississippi
Kim	Keun Kyu	Education	Assistant Professor	Ph.D.	Early Childhood Education	University of Georgia
Kmiec	Eric	Department of Chemistry	Professor	Ph.D.	Medical Science	University of Florida
Kong	Kam	Computer and Information Sciences	Associate Professor	Ph.D.	Mathematical Sciences	Purdue University
Krawitz	Robin	History, Political Science and Philosophy	Assistant Professor	M.A.	History	Colorado State University
Kwak	Young	Accounting, Economics and Finance	Professor	Ph.D.	Finance	University of Mississippi
Lamar	Horace	Music	Associate Professor	D.M.Ed.	Music Education	University of Southern Mississippi
Lee	Jung-Lim	Human Ecology	Assistant Professor	Ph.D.	Food Biochemistry	Kyung-Hee University, South Korea
Lin	Zhongyan	Computer and Information Sciences	Associate Professor	Ph.D.	Mathematics	University of Delaware
Liu	Jinjie	Mathematical Sciences	Assistant Professor	Ph.D.	Computational Applied Mathematics	State University of New York at Stony Brook
Liu*	Fengshan	Mathematical Sciences	Professor	Ph.D.	Applied Mathematics	University of Delaware
Lloyd	Andrew	Biological Sciences	Associate Professor	Ph.D.	Microbiology	University of Virginia
Lorio	Edward	Art	Associate Professor	M.F.A.	Art	University of South Florida

<b>Lott</b>	<b>Dawn</b>	<b>Mathematical Sciences</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Applied Mathematics</b>	<b>Northwestern University</b>
<b>Lu</b>	<b>Qi</b>	<b>Physics and Pre-Engineering</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Physics</b>	<b>Clemson University</b>
<b>Lumor</b>	<b>Stephen</b>	<b>Human Ecology</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Food Science</b>	<b>University of Georgia</b>
<b>MacBride</b>	<b>Robert</b>	<b>Biological Sciences</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Anatomy</b>	<b>Case Western Reserve University</b>
<b>Mahee</b>	<b>Richard</b>	<b>Business Administration</b>	<b>Assistant Professor</b>	<b>D.P.S.</b>	<b>Business</b>	<b>Pace University</b>
<b>Mallory</b>	<b>Lloyd</b>	<b>Music</b>	<b>Associate Professor</b>	<b>D.M.A.</b>	<b>Music</b>	<b>University of California at Los Angeles</b>
<b>Malone</b>	<b>Christopher</b>	<b>Sport Sciences</b>	<b>Instructor</b>	<b>Ph.D.</b>	<b>Physical Education</b>	<b>University of Virginia</b>
<b>Marcano</b>	<b>Aristides</b>	<b>Physics and Pre-Engineering</b>	<b>Associate Research Professor</b>	<b>Ph.D.</b>	<b>Non-Linear Optics, Laser Spectroscopy</b>	<b>Moscow State University</b>
<b>Marker</b>	<b>Elaine</b>	<b>Education</b>	<b>Assistant Professor</b>	<b>Ed.D.</b>	<b>Language Arts / Literacy</b>	<b>Widener University</b>
<b>Martin</b>	<b>Robert</b>	<b>Education</b>	<b>Associate Professor</b>	<b>Ed.D.</b>	<b>Curriculum and Instruction (Physical Education)</b>	<b>Columbia University</b>
<b>Mason</b>	<b>Joseph</b>	<b>Social Work</b>	<b>Instructor</b>	<b>MLSP,MSS</b>	<b>Law&amp;SocialPolicy/Social Services</b>	<b>Bryn Mawr College</b>
<b>Mathers</b>	<b>Rachel</b>	<b>Accounting, Economics and Finance</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Economics</b>	<b>West Virginia University</b>
<b>Mayo</b>	<b>Cynthia</b>	<b>Business Administration</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Human Nutrition and Foods</b>	<b>Virginia Polytechnic Institute and State University</b>
<b>McCallister</b>	<b>Richard</b>	<b>English and Foreign Languages</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Spanish</b>	<b>The University of Texas at Austin</b>
<b>McCrea</b>	<b>Brigid</b>	<b>Agriculture and Natural Resources</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Poultry Science</b>	<b>Auburn University</b>

<b>McGary</b>	<b>Sabrina</b>	<b>Biological Sciences</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Animal and Avian Sciences</b>	<b>University of Maryland College Park</b>
<b>McIntosh</b>	<b>Dennis</b>	<b>Agriculture and Natural Resources</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Soil, Water and Environmental Science</b>	<b>University of Arizona</b>
<b>McIntosh</b>	<b>William</b>	<b>Education</b>	<b>Professor</b>	<b>Ed.D.</b>	<b>Science Education</b>	<b>Temple University</b>
<b>McNair</b>	<b>Rodney</b>	<b>Mathematical Sciences</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Education</b>	<b>University of Delaware</b>
<b>Melikechi*</b>	<b>Noureddine</b>	<b>Physics and Pre-Engineering</b>	<b>Professor</b>	<b>D.Phil.</b>	<b>Physics</b>	<b>University of Sussex, England</b>
<b>Mennella</b>	<b>Princy</b>	<b>Biological Sciences</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Neuroscience and Behavior</b>	<b>University of Massachusetts Amherst</b>
<b>Mennella</b>	<b>Thomas</b>	<b>Biological Sciences</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Biology</b>	<b>State University of New York at Albany</b>
<b>Milutinovic</b>	<b>Janko</b>	<b>Computer and Information Sciences</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Physics</b>	<b>University of Maryland College Park</b>
<b>Mohamed</b>	<b>Ahmed</b>	<b>Chemistry</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Chemistry</b>	<b>University of Maine</b>
<b>Moore</b>	<b>Marilyn</b>	<b>Music</b>	<b>Instructor</b>	<b>B.A.</b>	<b>Music</b>	<b>Westminster College</b>
<b>Morrison</b>	<b>Mable</b>	<b>Music</b>	<b>Associate Professor</b>	<b>M.M.</b>	<b>Music</b>	<b>DePaul University</b>
<b>Murgia</b>	<b>Carla</b>	<b>Public and Allied Health Sciences</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Physical Education</b>	<b>Temple University</b>
<b>Muzorewa</b>	<b>Susan</b>	<b>Accounting, Economics and Finance</b>	<b>Assistant Professor</b>	<b>M.B.A.</b>	<b>Accounting</b>	<b>Morgan State University</b>



						The Pennsylvania State University - University Park
<b>Nagelberg</b>	<b>Kenneth</b>	<b>Mass Communications</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Speech Communication</b>	
<b>Nandakumar</b>	<b>Nagaiah</b>	<b>Mathematical Sciences</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Mathematics</b>	<b>University of Illinois at Urbana-Champaign</b>
<b>Newton</b>	<b>Faith</b>	<b>Education</b>	<b>Associate Professor</b>	<b>Ed.D.</b>	<b>Educational Administration</b>	<b>The College of William and Mary</b>
<b>Newton</b>	<b>Steven</b>	<b>History, Political Science and Philosophy</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>History</b>	<b>The College of William and Mary</b>
<b>Nielsen</b>	<b>Elizabeth</b>	<b>English and Foreign Languages</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>English</b>	<b>Ohio University at Athens</b>
<b>Ning</b>	<b>Nancy (Zi)</b>	<b>Accounting, Economics and Finance</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Business</b>	<b>The University of Texas at San Antonio</b>
<b>Nuamah</b>	<b>Kwabena</b>	<b>Sociology and Criminal Justice</b>	<b>Visiting Assistant Professor</b>	<b>Ph.D.</b>	<b>African American Studies</b>	<b>Temple University</b>
<b>Nunlee</b>	<b>Martin</b>	<b>Business Administration</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Business Administration</b>	<b>University of Illinois at Urbana-Champaign</b>
<b>Nurse</b>	<b>Myrna</b>	<b>English and Foreign Languages</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>English</b>	<b>Temple University</b>
<b>O'Brien</b>	<b>Dahlia</b>	<b>Agriculture and Natural Resources</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Food Science and Technology</b>	<b>University of Maryland Eastern Shore</b>
<b>Oh</b>	<b>Jungmi</b>	<b>Human Ecology</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Clothing, Textiles, &amp; Merchandising</b>	<b>Florida State University</b>

Osei	Akwasi	History, Political Science and Philosophy	Professor	Ph.D.	African Studies	Howard University
Ozbay	Gulnihal	Agriculture and Natural Resources	Associate Professor	Ph.D.	Fisheries and Allied Aquacultures	Auburn University
Parker	Leta	Social Work	Assistant Professor	Ph.D.	Organizational Leadership	University of Maryland Eastern Shore
Pati	Gour	Physics and Pre-Engineering	Associate Professor	Ph.D.	Physics	India Institute of Technology
Phillips	Richard	Education	Assistant Professor	Ph.D.	Organizational Leadership in Education	University of Maryland Eastern Shore
Pinjani	Praveen	Business Administration	Assistant Professor	Ph.D.	Information Systems and Operations Management	University of North Carolina at Greensboro
Planchon	Thomas	Chemistry	Associate Professor	Ph.D.	Physics	École Polytechnique, Paris, France
Pokrajac	Dragoljub	Computer and Information Sciences	Professor	Ph.D.	Computer and Information Science	Temple University
Pulverman	Rachael	Psychology	Assistant Professor	Ph.D.	Linguistics	University of Delaware
Quarless Kingsberry	Sheridan	Social Work	Associate Professor	Ph.D.	Social Work	Rutgers, The State University of New Jersey
Quinn	Martine	Sociology and Criminal Justice	Visiting Instructor	M.A., M.S.	Sociology	Temple University, Jackson College
Rana	Mutki	Physics and Pre-Engineering	Assistant Professor	Ph.D.	Electrical Engineering	The University of Texas at Arlington
Rasamny	Marwan	Computer and Information Sciences	Associate Professor	Ph.D.	Physics	University of Connecticut

<b>Rathee</b>	<b>Nirmaljit</b>	<b>Education</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Physical Education</b>	<b>Panjab University, India</b>
<b>Raval</b>	<b>Shilpa</b>	<b>Computer and Information Sciences</b>	<b>Instructor</b>	<b>M.S.</b>	<b>Computer Science</b>	<b>Drexel University</b>
<b>Raythantha</b>	<b>Divyesh</b>	<b>Mass Communications</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Jounalism</b>	<b>Saurashtra University, India</b>
<b>Reigle</b>	<b>Hans</b>	<b>Business Administration</b>	<b>Assistant Professor</b>	<b>M.B.A.</b>	<b>Business Administration</b>	<b>Delaware State University</b>
<b>Rich</b>	<b>John</b>	<b>Psychology</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Educational Psychology</b>	<b>Temple University</b>
<b>Richardson</b>	<b>Agnes</b>	<b>Nursing</b>	<b>Associate Professor</b>	<b>D.S.L.</b>	<b>Strategic Leadership</b>	<b>Regents University</b>
<b>Robinson</b>	<b>Niklas</b>	<b>History, Political Science and Philosophy</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>History</b>	<b>Tulane UNiversity</b>
<b>Rodriguez</b>	<b>Carlos</b>	<b>Business Administration</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Business Adminiatration</b>	<b>The Pennsylvania State University - University Park</b>
<b>Rogers</b>	<b>Amy</b>	<b>Psychology</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Applied Experimental Psychology</b>	<b>Southern Illinois University at Carbondale</b>
<b>Ruf</b>	<b>Bernadette</b>	<b>Accounting, Economics and Finance</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Business</b>	<b>Virginia Polytechnic Institute and State University</b>
<b>Sacko</b>	<b>Ladji</b>	<b>English and Foreign Languages</b>	<b>Associate Professor</b>	<b>Ed.D.</b>	<b>Administration and Policy Studies</b>	<b>University of Pittsburgh</b>
<b>Sadoughi</b>	<b>Mohammad</b>	<b>Business Administration</b>	<b>Associate Professor</b>	<b>Ed.D.</b>	<b>Business Teaching</b>	<b>University of Northern Colorado</b>

Sando	Carol	Nursing	Assistant Professor	Ph.D.	Nursing	Widener University
Saunders	Marlene	Social Work	Assistant Professor	D.S.W.	Social Work	University of Pennsylvania DSW
Scott-Jones	Gwendolyn	Psychology	Assistant Professor	Psy.D.	Clinical Psychology	Philadelphia College of Osteopathic Medicine
Shahin	Mazen	Mathematical Sciences	Professor	Ph.D.	Mathematics	Lvov State University, Russia
Sheffler	Sylvia	Nursing	Associate Professor	Ph.D.	Nursing Education	Widener University
Shi	Xiguan	Mathematical Sciences	Professor	Ph.D.	Applied Mathematics	Jilin University, China
Sianjina	Rayton	Education	Professor	Ph.D.	Education	University of Mississippi
Skelcher*	Bradley	History, Political Science and Philosophy	Professor	Ph.D.	Historical Studies	Southern Illinois University at Carbondale
Smolinski	Tomasz	Computer and Information Sciences	Assistant Professor	Ph.D.	Computer Science and Engineering	University of Louisville
Stevenson*	Marshal	History, Political Science and Philosophy	Professor		History	University of Michigan at Ann Arbor
Still	Mark	Sport Management	Instructor	Ed.D.	Sports Administration	United States Sports Academy
Streetman	Lee	Sociology and Criminal Justice	Professor	Ph.D.	Sociology	University of Delaware
Stringfield	Yvonne	Nursing	Associate Professor	Ed.D.	Higher Education	The College of William and Mary

<b>Suarez</b>	<b>Pablo</b>	<b>Mathematical Sciences</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Mathematics</b>	<b>Rensselaer Polytechnic Institute</b>
<b>Sun</b>	<b>Jiguang</b>	<b>Mathematical Sciences</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Applied Mathematics</b>	<b>University of Delaware</b>
<b>Suri</b>	<b>Kul Bhushan</b>	<b>Social Work</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Social Work</b>	<b>University of Maryland at Baltimore</b>
<b>Szabo-Maas</b>	<b>Theresa</b>	<b>Biological Sciences</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Zoology</b>	<b>Texas A&amp;M University</b>
<b>Taylor</b>	<b>Stephen</b>	<b>History, Political Science and Philosophy</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Philosophy</b>	<b>Bryn Mawr College</b>
<b>Teye</b>	<b>John</b>	<b>English and Foreign Languages</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Curriculum and Instruction</b>	<b>Purdue University</b>
<b>Thomas</b>	<b>Leela</b>	<b>Social Work</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Social Work</b>	<b>Washington University</b>
<b>Thompson*</b>	<b>Alton</b>	<b>Sociology and Criminal Justice</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Sociology</b>	<b>The Ohio State University</b>
<b>Tighe*</b>	<b>Genevieve</b>	<b>Mathematical Sciences</b>	<b>Assistant Professor</b>	<b>M.S./M.A.</b>	<b>Computer and Information Sciences/Mathematics</b>	<b>University of Delaware/Wesleyan University</b>
<b>Tolley</b>	<b>David</b>	<b>Music</b>	<b>Associate Professor</b>	<b>D.M.A.</b>	<b>Music</b>	<b>The Ohio State University</b>
<b>Toure</b>	<b>Ahati</b>	<b>History, Political Science and Philosophy</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>History</b>	<b>University of Nebraska</b>
<b>Tripathi</b>	<b>Renu</b>	<b>Physics and Pre-Engineering</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Physics</b>	<b>India Institute of Technology</b>
<b>Tucci</b>	<b>Roberta</b>	<b>Art</b>	<b>Professor</b>	<b>Ed.D.</b>	<b>Educational Leadership</b>	<b>University of Delaware</b>

<b>Tucker</b>	<b>Arthur</b>	<b>Agriculture and Natural Resources</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Botany</b>	<b>Rutgers, The State University of New Jersey</b>
<b>Tutu</b>	<b>Raymond</b>	<b>History, Political Science and Philosophy</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Geography</b>	<b>The Pennsylvania State University - University Park</b>
<b>Udezulu</b>	<b>Ifeyinwa</b>	<b>History, Political Science and Philosophy</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Political Science</b>	<b>Clark Atlanta University</b>
<b>Umoh</b>	<b>Hanson</b>	<b>Mathematical Sciences</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Mathematics</b>	<b>Howard University</b>
<b>VanGolen</b>	<b>Cynthia</b>	<b>Biological Sciences</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Neuroscience</b>	<b>University of Michigan</b>
<b>Viswanathan</b>	<b>Nanda</b>	<b>Business Administration</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Business Administration</b>	<b>The Ohio State University</b>
<b>Vulinec</b>	<b>Kelvina</b>	<b>Agriculture and Natural Resources</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Wildlife Ecology</b>	<b>University of Florida</b>
<b>Wakefield</b>	<b>Bryan</b>	<b>Chemistry</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Chemistry</b>	<b>University of Pittsburgh</b>
<b>Wang</b>	<b>Qiquan</b>	<b>Chemistry</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Environmental Science (Chemistry)</b>	<b>Zhejiang University, China</b>
<b>Watson</b>	<b>Clytrice</b>	<b>Biological Sciences</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Food Science and Technology</b>	<b>University of Maryland Eastern Shore</b>
<b>West</b>	<b>Susan</b>	<b>History, Political Science and Philosophy</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Philosophy</b>	<b>University of Chicago</b>
<b>Williamson</b>	<b>Joan</b>	<b>Accounting, Economics and Finance</b>	<b>Professor</b>	<b>Ph.D.</b>	<b>Urban Affairs and Public Policy</b>	<b>University of Delaware</b>
<b>Wilson</b>	<b>Charlie</b>	<b>Biological Sciences</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Biological Sciences</b>	<b>University of Delaware</b>

Winstead	Cherese	Chemistry	Assistant Professor	Ph.D.	Chemistry	Virginia Polytechnic Institute and State University
Workie	Bizuneh	Chemistry	Associate Professor	Ph.D.	Chemistry	Tufts University
Wright	Dolores	Social Work	Associate Professor	D.S.W.	Social Work	Howard University
Young	Renee	English and Foreign Languages	Associate Professor	Ed.D.	Educational Leadership	Wilmington University
Zerrad	Essaid	Physics and Pre-Engineering	Professor	Ph.D.	Physics	University of Connecticut
Zhang	Mark	Sport Management	Assistant Professor	D.S.M.	Sports Management	United States Sports Academy
Zuba	Jesse	English and Foreign Languages	Lecturer	Ph.D.	Language and Literature	Yale University

\* **Current Administrator**